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REPORT FOR PRELIMINARY SITE INVESTIGATION AT THE TRICO INDUSTRIES FACILITY, 19706 NORMANDIE AVENUE TORRANCE, CALIFORNIA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

PACCAR 03213

REPORT FOR PRELIMINARY SITE INVESTIGATION AT THE TRICO INDUSTRIES FACILITY, 19706 NORMANDIE AVENUE TORRANCE, CALIFORNIA

Prepared for:

TRICO
15707 South Main Street
Gardena, California 90247

Prepared by:

SCS Engineers
4014 Long Beach Boulevard
Long Beach, California 90807
(213) 426-9544

June 12, 1987

File No. 18719

DISCLAIMER

This report has been specifically prepared for Trico Industries, Incorporated with specific application to hazardous waste site investigations. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

INTRODUCTION

On April 27, 1987 SCS Engineers was contracted by Trico Industries, Incorporated to conduct a preliminary site investigation at their facility located at 19706 Normandie Avenue, Torrance, California (Figure 1). The purpose of this investigation was to determine the presence of hazardous waste contamination, if any, on the facility. The investigation included the retrieval and analysis of soil samples from six exploratory borings.

The Trico Industries Torrance facility manufactures well completion equipment for the oil well industry. The plant was constructed in 1952, and has always been used for this type of manufacturing. Originally, the site contained only the office buildings located at the west end of the property, with the manufacturing buildings being added later.

The plant at one time had a cesspool behind the main manufacturing building. The cesspool was apparently installed in 1968, and was abandoned around 1974-75. Early in 1987, it was filled in and covered with asphalt. Reportedly, the cesspool was for sewage, but oil and solvents were disposed of in there as well. Information on the types and volumes of oil and solvent which were disposed of was not available.

According to facility personnel, hazardous materials currently used on-site are paints, paint thinner, and various types of lubricating and hydraulic oils.

REGIONAL GEOLOGY

The Trico Industries Torrance site is situated at an approximate elevation of 50 feet above mean sea level. The site is located on the late Pleistocene age sediments of the Lakewood formation. The Lakewood formation is composed of generally fine to medium grained sands which were deposited as alluvium. The sediments contain much fine grained material which was deposited in a flood plain environment.

The Torrance site is located in the West Coast Basin of the Los Angeles Central Basin. The uppermost ground water in this area is found in the Gage aquifer, which is considered an important, high producing aquifer. The top of the Gage aquifer is located approximately 100 feet below grade in the vicinity of the Torrance facility.

ON-SITE INVESTIGATION

The on-site investigation was conducted on May 12, 1987. Drilling was performed by H-F Drilling utilizing a Mobile B-61 drilling rig mounted with a 7.5 inch hollow stem auger. Soil samples were retrieved using a modified California Sampler driven into the soil by a weighted slide hammer. As shown in Figure 2, six exploratory borings were drilled on-site to a depth of 20 feet. Samples were retrieved at depths 5, 10, 15, and 20 feet in each boring with the exception of BH-6. Samples from BH-6 were retrieved at depths 5, 10, 15, 20, 30, 40, 50, and 60 feet. Geologic logs for each boring are provided in Appendix A.

A total of 28 soil samples were retrieved from the site during drilling. Each sample was retrieved by placing six 3-inch stainless steel sleeves inside the California Sampler before it was driven into the soil. Each time the sampler was retrieved, the most representative bottom sample sleeve was removed, logged by our on-site geologist, covered with aluminum foil, sealed on both ends with tight-fitting plastic end caps, and secured with electrical tape.

MATERIAL AND METHODS

Each soil sample was identified with a sample number, and placed in a refrigerated cooler for transport to the SCS Analytical Laboratory. Chain-of-custody forms were appropriately completed by our field geologist and laboratory personnel to ensure proper and accurate sample tracking/analysis in the laboratory. Upon arrival at the SCS Laboratory, all samples were placed in a freezer at -10°C.

Soil samples from each boring were selectively analyzed as shown in the following table.

SOIL SAMPLING LOCATIONS AND ANALYTICAL PARAMETERS

Sample I.D.	Location	Analytical Parameters
BH-1	Former U/G Tank	BTX and TRPH*
BH-2	Solvent storage	EPA 8010/8020
BH-3	Steam cleaning area	EPA 8010/8020
BH-4	Steam cleaning area	EPA 8010/8020
BH-5	Vehicle maintenance	EPA 8010/8020
BH-6	Cesspool area	EPA 8010/TRPH

* BTX = benzene, toluene, and xylene
  TRPH = total recoverable petroleum hydrocarbons

The BTX and TRPH analyses are used to determine the presence of any fuel-related constituents and total petroleum-based hydrocarbons in the soil. EPA Methods 8010 and 8020 are gas chromatographic analyses used to detect the presence of halogenated aliphatic and aromatic solvents in a soil or solid matrix.

SITE GEOLOGY

The subsurface soils at the Trico Industries Torrance facility consist initially of dark brown to brown sandy to silty clay. This generally grades down to a light brown silty sand, except in BH-2 where a thin (six inch) layer at the 5-foot level was a grey green color. Below 20 feet, the soils in BH-6 (the only boring drilled deeper than 20 feet) graded to a brown, well graded sand. Between 40 to 48 feet this sand is stained black, and has a strong odor. Below this stained layer is a grey brown silty clay which is mottled, and has a slight odor. At 60 feet begins a layer of fine grained brown sand. The boring was drilled to a total depth of 60 feet. Ground water was not encountered in any of the exploratory borings.

RESULTS

The soil samples analyzed from boring BH-1 located near the former underground fuel storage tank did not contain any detectable levels of BTX or TRPH (detection limits of 0.01 and 1 part per million, respectively).

Soil samples taken from the area where the paint solvents are stored contain relatively low levels (less than 20 parts per billion [ppb]) of solvent-related contaminants at the 5-foot level. The 10-foot sample contains a slightly elevated level (296 ppb) of methylene chloride.

Samples analyzed from borings BH-3, BH-4, and BH-5 all contain relatively low levels (less than 30 ppb) of various solvent-related constituents, however, we do not feel that these levels represent anything especially significant. Borings BH-4 and BH-5 both contained toluene in the 5-foot samples at concentrations of 89 and 128 ppb, respectively. The origin of the toluene is uncertain, but could be a remnant constituent of small amounts of petroleum related compounds which may have been released into the soil.

Samples analyzed from boring BH-6 (near the former cesspool) contain relatively low levels of tetrachloroethane and 1,1,1-trichloroethane (TCA) in the 10- and 20-foot samples. The 40-foot sample, which was where the soils were highly stained, contains 17,600 ppb of 1,2-dichloroethane (DCA), 3070 ppb of tetrachloroethane, and 1477 parts per million (ppm) of diesel fuel. The sample at 60 feet showed reduced levels, but still contained 62 ppb of 1,2-DCA, 122 ppb of tetrachloroethane, and 117 ppb of methylene chloride. The analytical data of soil samples is provided in Appendix B.

CONCLUSIONS

Analysis of samples from boring BH-1 in the former underground storage tank area do not indicate or suggest that soils are contaminated with gasoline or any other fuel-related constituents.

The samples from the boring by the solvent storage area showed relatively low levels of solvent related constituents, which could possibly be the result of small amounts of spillage allowing the solvents to seep into the soils.

Borings BH-3 and BH-4 were located in an area where steam cleaning formerly was done. The low levels of contamination could possibly be the result of this steam cleaning process which may have washed solvents and fuel related constituents through cracks in the asphalt. A small separator sump for the steam cleaning is located in the vicinity of these two borings, and could also be a possible source of the low levels of contamination that were detected in this area.

The soil samples from BH-5 also showed low levels of solvent constituents, as well as 128 ppb toluene (a petroleum related constituent). This area was used for the servicing of vehicles, and is highly oil stained on the surface. The soil contamination is probably the result of the vehicle servicing and possibly the spilling or indiscriminate disposal of oils and/or degreasing solvents.

Boring BH-6 was placed as close as possible to the former cesspool in order to determine if any contamination occurred from the disposal of oil and solvents in the cesspool. The samples from the 10- and 20-foot depths showed low levels (less than 100 ppb) of contamination from solvents. The 40-foot sample, however, contains high levels of both chlorinated solvents and diesel fuel. The highly stained soils are approximately eight feet thick. Underlying this is a layer of clay which is approximately 12 feet thick. The sample at 60 feet was taken from sands which are under this clay layer, and shows reduced levels of tetrachloroethane, 1,2-DCA, and a trace amount of methylene chloride. This suggests that the clay layer has probably inhibited the downward migration of these contaminants.

In summary, based on the limited data generated as a result of this preliminary site investigation, we do not feel that there are any significant problems associated with hazardous constituents in borings BH-1, BH-2, BH-3, BH-4, or BH-5. However, the analytical data relevant to boring BH-6 indicates that there are significant concentrations of chlorinated solvents and petroleum hydrocarbons at approximately 40 feet below grade. Although the 60-foot sample showed a significant reduction of these chlorinated compounds, the possibility exists for potential contamination of ground water beneath the cesspool area.

RECOMMENDATIONS

Since borings BH-1 through BH-5 did not result in any significant levels of hazardous waste contamination, no further site investigation work in these areas is recommended. However, additional site investigation work is recommended for the cesspool area. Our recommendations include:

- Drill one monitoring well to determine if ground water beneath the area has been impacted by the former cesspool operation.
- Install vapor well(s) to extract solvents contained at approximately 40 feet below grade.
- Drill additional exploratory in the vicinity of the cesspool to identify the extent of possible lateral migration into surrounding soils at the 40 to 50-foot depth.

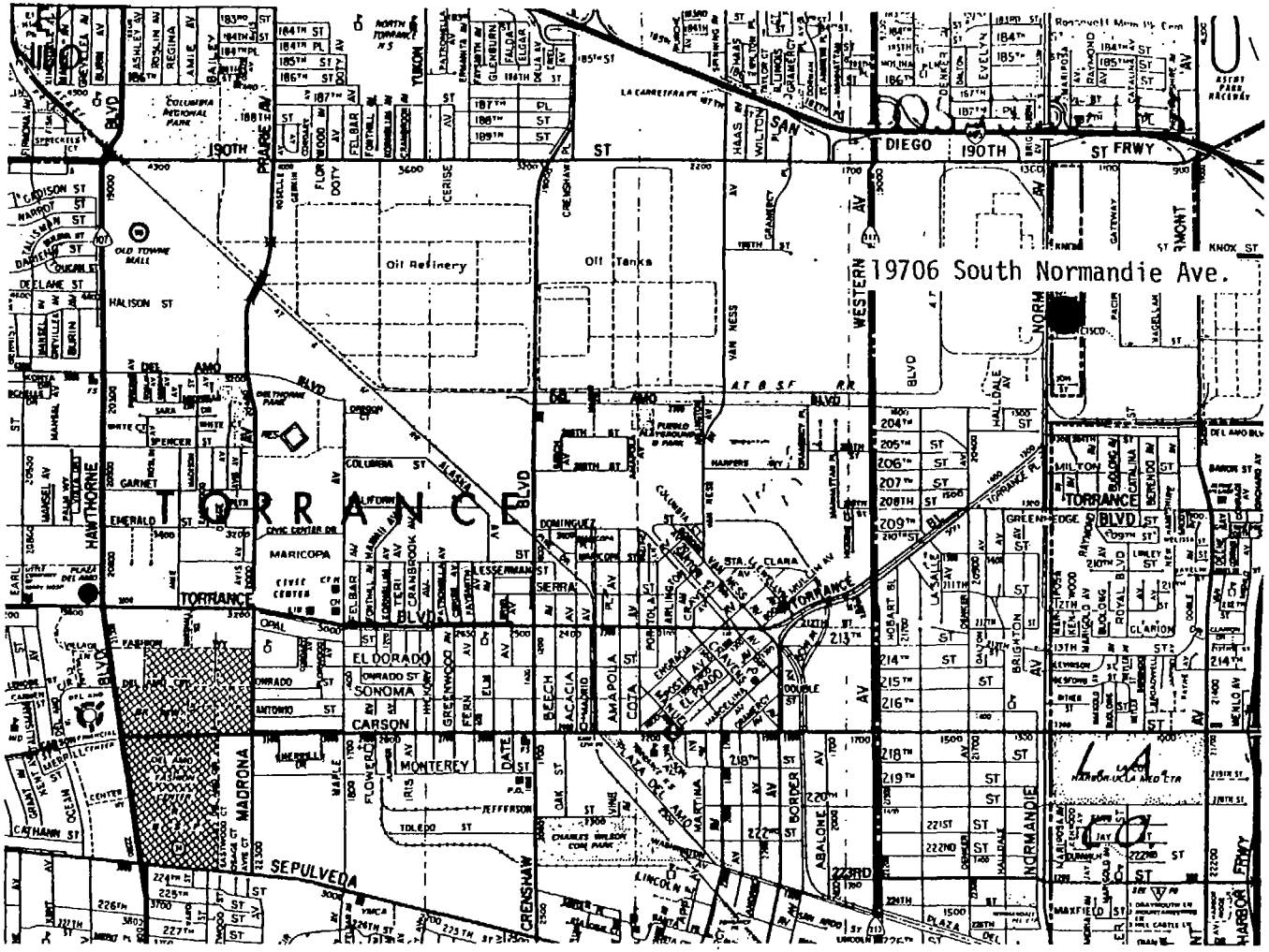

Figure 1.

Location of Trico Industries Torrance facility, 19706 South Normandie Avenue, Torrance, California.

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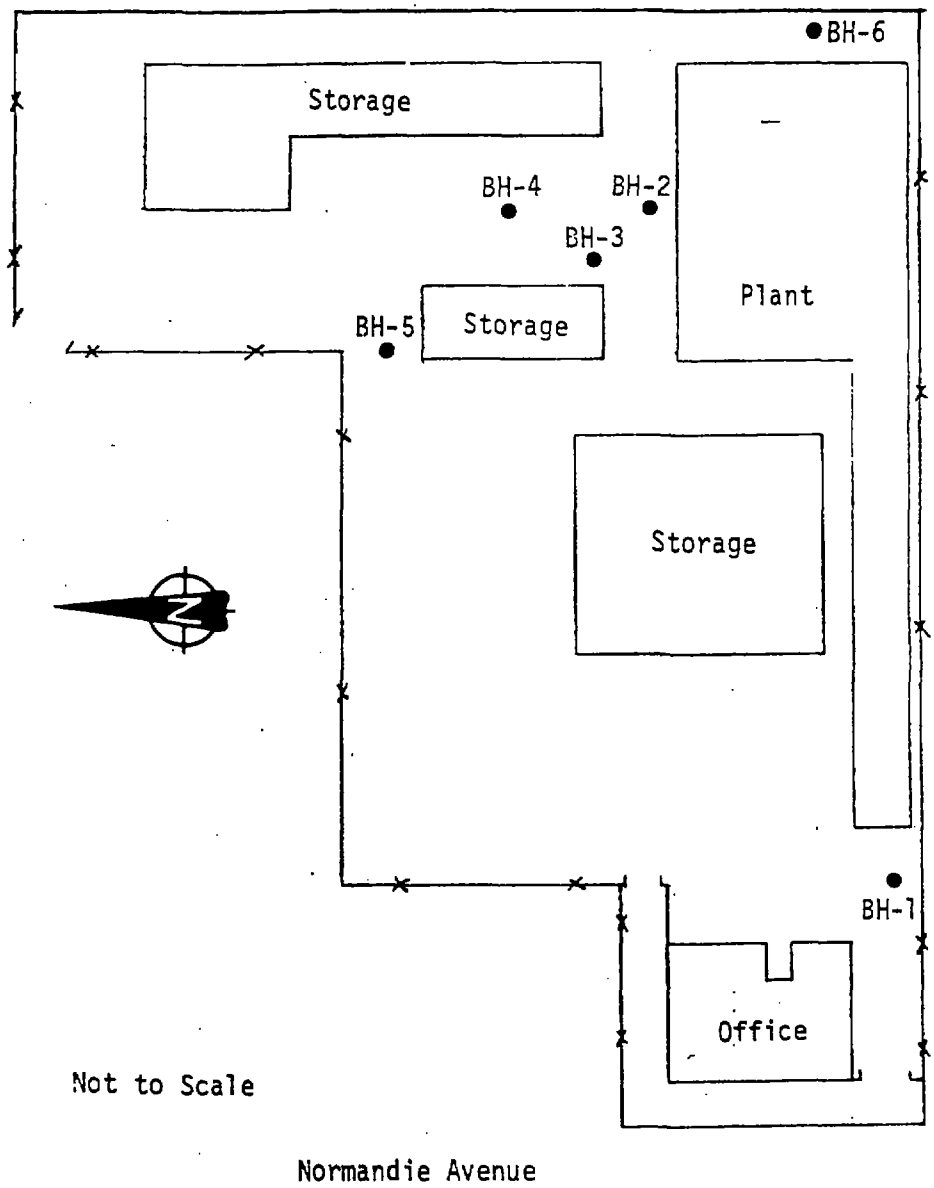

Figure 2

Location of exploratory borings at the Trico Industries facility, 19706 South Normandie Avenue, Torrance, California.

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APPENDIX A

GEOLOGIC BORING LOGS

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807-2687
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger
LOGGED BY Greg Helland

DH-

SURFACE ELEVATION IN FEET DATUM

Sample I.D	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M — D (RC) — O
						2" of asphalt underlain by a light brown sandy clay with gravel - fill material	
BH1-5			5	CL		brown silty clay, no fines, moist, stiff, no odor.	
BH1-10			10	CL		light brown clay, no fines, moist, moist, hard, no odor.	
BH1-15			15	CL		light brown silty sand, few fines, dry, very stiff, contains root holes, no odor.	
BH1-20			20	CL		light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
			25			Total Depth 20'	
			30				
			35				

SCS ENGINEERS
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California 90807-2587
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.					2" of asphalt underlain by a dark brown to black silty clay	
BH2-5		5	CL	■	green brown slightly sandy clay, stained for 6", fine grains, moist, very stiff, slight odor.	
BH2-10		10	CL	■	light brown silty clay, slightly mottled, few fines, moist, very stiff, contains root holes, no odor.	
BH2-15		15	CL	■	light brown silty clay, few fines, dry, very stiff, no odor.	
BH2-20		20	CL	■	light brown silty clay, few fines, dry, very stiff, no odor, contains root holes.	
					Total Depth at 20 ft.	
		25				
		30				
		35				

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GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D (RC)-O
Sample I.D.					2" of asphalt underlain by dark brown to black silty clay.	
BH3-5		5	CL	■	reddish brown clay, no fines, dry, very stiff, no odor.	
BH3-10		10	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH3-15		15	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH3-20		20	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
					Total Depth 20'	
		25				
		30				
		35				

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DH-

SURFACE ELEVATION IN FEET DATUM

GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.					2" of asphalt underlain by dark brown to black silty clay	
BH4-5		5	CL	■	dark brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH4-10		10	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH4-15		15	CL	■	light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH4-20		20	CL	■	light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
		25			Total Depth 20'	
		30				
		35				

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Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.					2" of oil stained asphalt underlain by dark brown silty clay	
BH5-5		5	CL	■	dark brown silty clay, few fines, dry, very stiff, no odor.	
BH5-10		10	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH5-15		15	CL	■	light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH5-20		20	CL	■	light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
		25			Total Depth 20'	
		30				
		35				

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Location: Trico Industries - Torrance

LOG OF DRILL HOLE

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DH-

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.						2" of asphalt underlain by brown silty clay	
BH6-5			5	CL		dark brown silty clay, few fines, moist, very dense, no odor.	
BH6-10			10	CL		light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
BH6-15			15	CL		light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
BH6-20			20	CL		light brown silty clay, slightly mottled, few fines, very stiff, contains root holes, slight odor.	
			25				
BH6-30			30	SW		brown sand, fine grained, moist, dense, well graded, somewhat stained, slight odor, quartz grains.	
			35				

APPENDIX B

ANALYTICAL DATA FOR SOIL SAMPLES

SCS ENGINEERS ANALYTICAL LABORATORY
4014 Long Beach Boulevard
Long Beach, CA 90807
(213) 494-2828

MEMO
To: Greg Helland

From: Curtis Jenkins — June 3, 1987

Job No.: 18719 — Page 1 of 1

LABORATORY REPORT

Samples: Fourteen (14) soil samples from Trico, Normandy, Torrance, received 5/12/87.

Sample I.D.	Benzene	Toluene	Xylenes	TRPH
	mg/kg			
BH1-10	<0.01	<0.01	<0.01	<1
BH1-15	<0.01	<0.01	<0.01	<1
BH6-10	---	---	---	<1
BH6-20	---	---	---	<1
BH6-40	---	---	---	1477 D
BH6-60	---	---	---	<1

EPA 8010 and 8020 - see attached; separate sheet per sample.

TRPH - Total Recoverable Petroleum Hydrocarbons
D - Diesel

David Sincerbeaux
Chemist

Curtis B. Jenkins
Laboratory Director

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SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH5-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH3-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH4-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	89	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico8.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH4-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico9.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH5-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	23	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	8	5
1,1,1-trichloroethane	20	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico10.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	7	5
1,1,1-trichloroethane	92	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

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SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-20
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	16	5
1,1,1-trichloroethane	62	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

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SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-40
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	17600	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	3070	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico14.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-60
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	62	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	117	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	122	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico15.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH2-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	20	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	10	5
1,1,1-trichloroethane	8	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico16.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH2-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	296	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico17.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH3-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico18.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH3-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	46	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico19.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH4-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico20.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH4-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	27	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	11	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico21.rep16

RKB

cc RE Baugert
~~PE Gladfelter~~
Sye
RK Butler
1/8/96

South Coast
Air Quality Management District
21865 E. Copley Drive, Diamond Bar, CA 91765-4182 (909) 396-2000

December 26, 1995

Mr. James H. Dunavant
3040 E. Slauson Ave.
Huntington Park, Ca 90255

JAN 09

Dear Mr. Dunavant:

Enclosed please find the Not Negotiable copy of ERC certificate number AQ001503 issued to Trico Industries Inc. The Original ERC certificate is being retained by the AQMD. The issuance of this ERC certificate was the result of the shutdown of one (1) diptank from 1206 W. 196th St. in Torrance.

Please note that the AQMD must be contacted regarding any future transactions pertaining to this ERC certificate, such as applying this ERC certificate to any future emission increases at your facility or transferring all or part of it to another company. At the minimum, you will be required to submit the *Application for Emission Reduction Credit*, the corresponding processing fee depending on the type of transaction, the enclosed ERC certificate, and any other relevant information as deemed appropriate by the Executive Officer at the time of filing.

Should you have any questions regarding this matter, please feel free to contact me at (909) 396-2685.

Very truly yours,

Gregory G. Wood
Air Quality Engineer II

Enclosure

Certified Mail
Return Receipt Requested

Post-it™ Fax Note 7671	Date 1-8-96	# of pages ▶ 2
To Larry Sims	From Jim Dunavant	
Co./Dept.	Co.	
Phone #	Phone #	
Fax #	Fax #	

South Coast
AIR QUALITY MANAGEMENT DISTRICT

Facility ID No. 095221

Certificate No. AQ001503

CERTIFICATE OF PROOF
FOR REGISTERED EMISSION REDUCTION CREDIT

The South Coast Air Quality Management District hereby registers this Emission Reduction Credit

To: TRICO INDUSTRIES INC

Reduction Created at: ~~1206 W 196TH ST~~
~~TORRANCE ,CA. 90510~~

In the amount of 43 Pounds/day of Reactive Organic Gases

Type of Emission Reduction: Shutdown

Application Number that Created the Reduction: 277681

Description of Reduction: SHUTDOWN OF ONE (1) DIPTANK

Date of Issuance: 12/04/95

Date Reduction Created: 11/01/92

Zone Number Reduction Created: 03

Previous Certificate No. (If applicable) :

Mark Weekly
Controller

COPY

NOT NEGOTIABLE

Any use or transfer of ownership must be approved by the SCAQMD

Permit issued for: Two Monitoring Wells Destruction

APPLICATION FOR WELL PERMIT

ENVIRONMENTAL HEALTH 2525 Corporate Plac. Monterey Park, Ca 91754

COUNTY OF LOS ANGELES DEPARTMENT OF HEALTH SERVICES

DATE 8/28/98

DESCRIPTION

TYPE OF PERMIT (CHECK)

- ☐ NEW WELL CONSTRUCTION
- ☐ RECONSTRUCTION OR RENOVATION
- ☒ DESTRUCTION

TYPE OF WELL

- ☐ PRIVATE DOMESTIC
- ☐ PUBLIC DOMESTIC
- ☐ IRRIGATION
- ☒ OBSERVATION/MONITORING
- ☐ CATHODIC
- ☐ INDUSTRIAL
- ☐ GRAVEL PACK
- ☐ TEST

TYPE OF CASING: PVC Sch 40

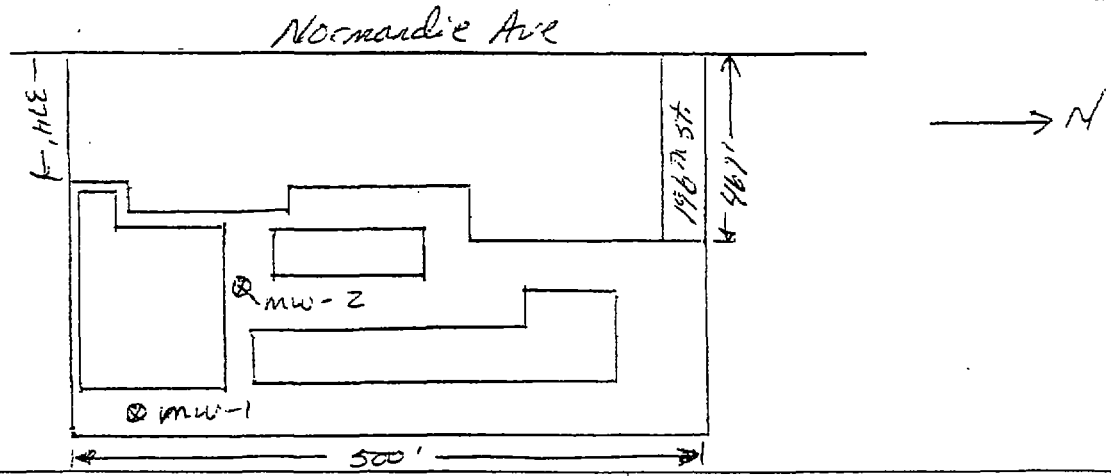
METHOD OF SEALING OF CASING: Bentonite Grout with 5% Cement

METHOD OF DESTRUCTION: Overdrilling Two 85 Foot deep Monitoring wells, Bentonite grout will be Tremied down Hollow Stem Auger, Concrete Cap

LOCATION

ADDRESS (NUMBER, STREET, AND NEAREST INTERSECTION): 1206 West 196th Street, ~~Torra~~ Cross-Street → Normandie Ave. CITY: Torrance

DIAGRAM (SHOW PROPERTY LINES, STREET, ADDRESS, WELL SITE, SEWERS, AND PRIVATE SEWAGE DISPOSAL SYSTEMS ALONG WITH LABELS AND DIMENSIONS)



APPLICANT

NAME OF WELL DRILLER (PRINT): Excel Drilling Co. C57# 752560

NAME OF WELL OWNER (PRINT): PACCAR, Inc. - Larry Sims

TRADE NAME: Environmental & GeoTechnical

MAILING ADDRESS: 777 106th Ave N.E.

BUSINESS ADDRESS: 10609 Lawson River Ave. CITY: Fountain Valley

CITY: Bellevue, WA 98004

I hereby agree to comply in every respect with all regulations of the County Preventive/Public Health Services and with all ordinances and laws of the County of Los Angeles and of the State of California pertaining to well construction, reconstruction and destruction. Upon completion of well and within ten days thereafter, I will furnish the County Preventive/Public Health Services with a complete log of the well, giving date drilled, depth of well, all perforations in casing, and any other data deemed necessary by such County Preventive/Public Health Services.

George E Johnson

Applicant's Signature

DISPOSITION OF APPLICATION: (For Sanitarians Use Only)

- ☒ APPROVED
- ☐ DENIED
- ☐ APPROVED WITH CONDITIONS

If denied or approved with conditions, report reason or conditions here:

DATE | SANITARIAN

DATE 9/24/98 | SECTION CHIEF Michael Lin

When signed by Section Chief, this application is a permit.

76A668
H-13 (Rev. 3/91)

Please Return All Copies

PACCAR 03250

amec

GROUNDWATER MONITORING REPORT
FORMER TRICO TORRANCE INDUSTRIES
FACILITY
1206 WEST 196TH STREET
TORRANCE, CALIFORNIA 90502

PACCAR 03251

GROUNDWATER MONITORING REPORT
FORMER TRICO TORRANCE INDUSTRIES FACILITY
1206 WEST 196TH STREET
TORRANCE, CALIFORNIA 90502

Prepared for:

PACCAR Inc
777 106th Avenue NE
Bellevue, Washington 98004

Submitted by:

AMEC Earth & Environmental, Inc.
1290 North Hancock Avenue
Suite 102
Anaheim, California 92807

Job No. 591M152680

20 January 2006

AMEC Earth & Environmental, Inc.
1290 North Hancock Street, Suite 102
Anaheim, California
USA 92807-1924
Tel (714) 779-2591
Fax (714) 779-8377

www.amec.com

amec

GROUNDWATER MONITORING REPORT
FORMER TRICO TORRANCE INDUSTRIES FACILITY
1206 WEST 196TH STREET
TORRANCE, CALIFORNIA 90502

Prepared for:

PACCAR Inc
777 106th Avenue NE
Bellevue, Washington 98004

Submitted by:

AMEC Earth & Environmental, Inc.
1290 North Hancock Avenue
Suite 102
Anaheim, California 92807

Maheshwar R. Mettu
Project Engineer

Mark McLarty, CEG 1107
Principal Engineering Geologist

Meg Strong, LG
Associate

REGISTERED GEOLOGIST
MARK W. McLARTY
NO. 1107
CERTIFIED
ENGINEERING
GEOLOGIST
EXP 4/30/06
STATE OF CALIFORNIA

20 January 2006

Job No. 591M152680

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5-91M-15268-0

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LIST OF ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Earth & Environmental, Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene & xylenes
DIPE	Diisopropyl ether
DI	deionized water
DOT	Department of Transportation
DWR	California Department of Water Resources
EPA	Environmental Protection Agency
HSP	Health and Safety Plan
IDW	Investigation-Derived Waste
Hp	Horse Power
MCL	maximum concentration limit
MSL	mean sea level
MW	Monitoring Well
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
MTBE	methyl tertiary butyl ether
OD	Outside diameter
ORP	oxidation reduction potential
OSHA	Occupational Safety and Health Administration
PCE	Tetrachloroethene
PE	Professional Engineer
PVC	polyvinyl chloride
PMW	Pump/Extraction Monitoring Well
PID	Photoionization Detector
ppmv	parts per million volume
QA/QC	Quality Assurance/Quality Control
RG	registered geologist
RWQCB	California Regional Water Quality Control Board
SRL	Sanitation and Radiation Laboratories
TCE	Trichloroethylene
TPH	total petroleum hydrocarbons
TPHd	total petroleum hydrocarbons as diesel
TPHg	total petroleum hydrocarbons as gasoline
USGS	United States Geological Survey
VOC	volatile organic compound

GROUNDWATER MONITORING REPORT
FORMER TRICO TORRANCE INDUSTRIES FACILITY
1206 WEST 196TH STREET
TORRANCE, CALIFORNIA 90502

5-91M-15268-0

1.0 INTRODUCTION

AMEC Earth & Environmental, Inc (AMEC) completed groundwater monitoring at the Trico Torrance Industries Facilities (Trico) in Torrance, California (hereafter referred to as the Site) on the 27th and 28th of July 2005. This monitoring event was completed by AMEC in accordance with the Groundwater Sampling Work Plan, Former Trico Torrance Industries Facilities dated 25 July 2005 (Work Plan). The objective of the groundwater sampling was to monitor and assess current groundwater concentrations.

A discussion of the site background and groundwater monitoring results is presented in the sections that follow.

2.0 BACKGROUND

2.1 Physical Settings

The Site, located in an industrialized area at 1206 West 196th Street, Torrance, County of Los Angeles, California (CA), is approximately 100,000 square foot (sq ft) in area. The approximate coordinates of the Site are 33° 51' 00" North Latitude and 118° 18' 00" West Longitude. Figure 1 is an annotated USGS 7.5-minute Torrance-California Quadrangle (USGS, 1964) showing the site location, local topography, drainage and cultural features.

The Site is relatively rectangular in shape with its long dimension oriented north – south and relatively flat and elevation varies from approximately 40 to 45 feet (ft) above mean sea level (amsl). The majority of the Site is paved with asphalt concrete or concrete slab-on-grade with little exposed soil. Currently, three single-story buildings with concrete block buildings and steel-framed roofs (Buildings A, B, and C) exist on-site. Building A is approximately 20,000 sq ft in area and currently houses storage of machinery and some machining activity. Buildings B and C is 14,000 sq ft and 4,000 sq ft respectively of the property and are utilized for refurbishing and storing imported patio furniture by Mighty Enterprises Incorporated (Mighty), a tenant on the property since 1993.

Land use in the vicinity of the Site is primarily industrial: American Polystyrene (formerly Amoco Chemical) is located immediately to the north; Mighty Enterprises (an importer) and a lumberyard are located to the west; Redman Manufacturing (a heat exchange manufacturer and repair facility) is located to the south; Del Amo Superfund Site to the northeast, southeast, and along the entire eastern border; and R.R. Donnelly and Sons (a printing facility) located immediately to the east on former Del Amo property. A bulk railcar unloading rail spur for American Polystyrene, oriented north - south, situated along the eastern boundary of the property and separates the Site from the adjacent R.R. Donnelly and Sons property (Figure 2).

2.2 Site History

Prior to 1940, the Site and adjacent properties were utilized for agricultural purposes. In the 1950s the Trico property was developed by Kuchner Construction Company, and was utilized to store construction equipment. By 1957, American Chemsolv Incorporated, a paint manufacturer and solvent storage facility occupied a portion of the property and constructed a rainwater interceptor on the east side of Building A. In 1974, B & W Monarch, an oil well completion and possibly equipment testing facility occupied the property.

Subsequent to B & W Monarch's occupancy, Trico purchased the property in 1981, which at the time included the Mighty Property to the west that fronts on Normandie Avenue. The three single-story buildings on-site, Buildings A, B, and C, were utilized by Trico for pump manufacturing, storage, and shipping respectively (Figure 2). On-site facilities consisted of:

- Above Ground Storage Tanks (ASTs), contents and ownership unknown, were reportedly used near to the northwest property border; solvent storage in the central area; and trichloroethylene (TCE) storage in the southern portions of the Site;
- Vehicle Maintenance Area just north of Building C;
- Paint Dip Tank for coating finished parts and associated drip area in the center portion of the north wall of Building A;
- Rainwater interceptor, actual use unknown and although suspected of being a rainwater interceptor it is possible that the interceptor also processed a minor machine cooling water flow, located on the east side of Building A;
- Clarifier utilized for steam cleaning in the center of the Site near the vehicle and parts washing area;
- A second clarifier with a suspected use to process the outflow stream of water used for machine cooling in Building A prior to discharge to the storm sewer system in the southeast portion of the Site; and
- Chemical storage area in the southeast corner of the property.

In 1987, PACCAR bought Trico Industries and in 1989 sold the western portion of the former Trico parcel to the current owners, Mighty located at 19706 South Normandie Avenue, Torrance, CA. Activities on the Mighty property include the assembly and service of machine tools. In 1992, Trico activities ceased on the 1206 West 196th Street property (Site), and that property was leased to Mighty in 1993. Currently, machine tools shipped to the USA for Mighty USA are unpacked and assembled in Building A. Building B and C are used by Mighty USA's subsidiary DynaTech to receive and assemble crated patio furniture from Asia for distribution in North America.

2.3 Previous Site Investigations

At the request of the Regional Water Quality Control Board – Los Angeles Region (RWQCB), investigative activities began on the Site and adjacent properties to assess soil and groundwater conditions in the area.

In 1987 and 1988, SCS Engineers (SCS) completed investigations that installed nine soil borings (BH-1 through BH-9) and monitoring wells (MW-1 and MW-2). The analytical results indicated that varying concentrations of chlorinated volatile organic compounds (VOCs) were present in the subsurface soil samples collected at the sample locations. Trichloroethylene (TCE) and perchloroethylene (PCE) were also detected in groundwater samples collected (SCS, 1987).

In 1995, H_2O Science installed two more shallow monitoring wells (MW-3 and MW-4) and collected soil and groundwater samples from the Site (Figure 2). The analytical results from these investigations indicated that TCE and PCE are present in groundwater and soil at the Site. Groundwater collected from a depth of 60 ft bgs indicated concentrations of 30,000 micrograms per liter (µg/l) TCE and 15,000 µg/l PCE in MW-3 and 30,000 micrograms per liter

(µg/l) TCE and 10,000 µg/l PCE in MW-4 (H_2O Science, 1995). For soils, the maximum concentrations of TCE (8.8 mg/kg) and PCE (3.5 mg/kg) were detected at a depth of 68 ft bgl in the soil boring converted to MW-3. At that depth the concentrations in soil are more indicative of the groundwater contamination than soil

In 1995, Hart Crowser conducted a Phase I Environmental Site Assessment and collected groundwater samples from existing monitoring wells MW-1 through MW-4 on the Site (Figure 2). Concentrations of PCE, TCE and cis-1,2-Dichloroethylene (DCE) were detected in all the monitoring wells (Hart Crowser, 1995). In 1998 Hart Crowser abandoned monitoring wells MW-1 and MW-2.

A Phase II field investigation was conducted by Hart Crowser in 2000 to further characterize subsurface contamination. The investigation included the installation of three monitoring wells (MW-5, MW-6, and MW-7) into the upper water bearing unit. Results indicated the presence of VOCs, including PCE and TCE in the groundwater collected at the Site. Fifteen CPT borings for select soil parameters and fourteen Geoprobe soil borings for environmental soil sampling were drilled across the site. Locations of the CPT soil borings are shown on the Site Layout Figure 2. VOC concentrations in soil above detection limits were primarily confined to the east/southeastern and northwestern portion of the site. The concentrations of these VOCs (PCE and TCE) in soil are below the PRGs established by the EPA in industrial soils. At several locations where the VOC concentrations were high in groundwater, the soil column above the contaminated groundwater was relatively nonimpacted.

In 2003, Hart Crowser conducted a supplemental Site Investigation, which included drilling of twenty additional soil borings and installation of nine temporary well points. Results of the soil investigation indicated that trace levels of some VOCs were detected, yet none were near to or above EPA Region 9 preliminary remediation goals (PRGs) with the exception of TCE. TCE was detected above the applicable PRG predominantly in the northwest portion of the Site near the suspected location of former ASTs. One other sample location near to the northeast corner of the Site had detections of TCE above the applicable PRG at depths greater than 25'. Soil samples across the Site contained trace concentrations of metals well below their applicable PRGs in soil. Groundwater analysis revealed concentrations of certain chlorinated VOCs similar to previous investigations (Hart Crowser, 2003). The data suggested that contamination appears to have originated from the north and northeast.

To further evaluate the extent of contamination from the initial supplemental Site Investigation, Hart Crowser conducted a second supplemental site investigation in 2004. Field activities included the drilling and sampling of seven more soil borings beneath Building A, near the clarifier in the Southeast corner of the Site, and within the easement along the northern portion of the property. Of the 44 soil samples analyzed in the four borings beneath Building A, only 5 samples had a VOC concentrations above an industrial or residential PRG: TCE was the only VOC detected, and then only within the capillary fringe at depths of 45 feet or greater below ground surface. Beneath the clarifier, VOC concentrations were indicated at trace levels and of those marginal VOC detections none were above PRGs in any of the 9 samples taken. However, beneath the north/northeast property easement, TCE was detected in soil samples collected at depths greater than 10 ft bgs with concentrations exceeding PRGs and the concentrations generally increasing with depth. Based on the results of the investigation, Hart Crowser concluded that concentrations of TCE were primarily detected in the capillary fringe

and immediately down-gradient from the former trenches on the Del Amo and the adjacent American Polystyrene properties.

2.4 Surrounding Land-Use Investigation

As mentioned previously, land use in the adjoining properties to the Site consists of: American Polystyrene located immediately to the north; Mighty Enterprises and a lumberyard to the west; Redman Manufacturing to the south; Del Amo Superfund Site to the northeast, southeast and along the entire eastern border; and R.R. Donnelly and Sons immediately to the east on former Del Amo property. Additional facilities not adjoining to, but within 600 feet of the Site include a McDonnell Douglas facility (currently Boeing) to the west/northwest and a paint manufacturer located to the northwest of the Site.

A Record of Decision (ROD) was issued in March of 1999 for both the Montrose Chemical Superfund site and the Del Amo Superfund site in Los Angeles County, California. Releases of hazardous substances, pollutants, or contaminants from the former DDT pesticide manufacturing plant operated by Montrose Chemical Corporation, including but not limited to chlorobenzene, DDT, and parachlorobenzene sulphonic acid, have resulted in hazardous substances contamination in the groundwater. Release of hazardous substances from the former Del Amo Synthetic Rubber Manufacturing plant, including but not limited to benzene, ethylbenzene, and naphthalene have resulted in hazardous substances contamination in the groundwater. Releases of hazardous substances including but not limited to benzene, trichloroethylene (TCE), perchloroethylene (PCE), and dichloroethylene (DCE) have occurred potentially as a result of the operations at both the former Montrose Chemical and Del Amo plant properties and otherwise as a result of the operations of additional facilities in the immediately surrounding area. These releases have also resulted in groundwater contamination. EPA has given the name "joint site" to the groundwater contamination from the Del Amo and Montrose sites and from a few smaller nearby facilities that will be affected by the cleanup. According to the record, two facilities at the Del Amo western border handled solvents and have soils with high concentrations of these solvents. These two facilities are identified as the former Amoco and Lawson Chemical, and the "former trenches" of the Del Amo site. It is believed that the trenches were formerly used for waste disposal activities

Additional potential sources of off-site contamination include the lumber storage and treatment facility to the west of the Site that has been in operation since 1972. It has been suggested that the chemicals associated with lumber treatment activities may have contributed to localized soil and groundwater contamination (Hart Crowser, 2003). A solvent-impacted plume has been detected beneath the former McDonnell Douglas facility (currently Boeing) located 600 feet west/northwest and potentially upgradient from the Site across Normandie Avenue. American Polystyrene (formerly BP Amoco), located immediately north of the Site, operates facilities that have included several aboveground and underground storage tanks with various solvents. Eleven of the 14 USTs used at the former BP Amoco facility were abandoned in-place, presenting a potential source of solvent-impacted sols and/or groundwater if the tanks were leaking prior to being abandoned in-place. The former BP Amoco facility also was reported to utilize a rainwater interceptor for the disposal of wastewater. A paint manufacturer located 500 ft

to the northwest of the Site maintained solvent Underground Storage Tanks (USTs) over many years. Finally, pre-development agricultural pesticide use may have contributed to contamination in the area.

A relatively shallow groundwater body extends beneath the site and surrounding properties at a depth of approximately 53 to 60 feet below ground surface (bgs). Data collected in July 2005 suggests groundwater beneath the Site flows to the southwest. When compared to groundwater data collected in February 2003, the water levels in July 2005 increased site wide by approximately 1.60 feet, this increase in groundwater elevation is suspected to be a result of the increase of surface runoff from last winter's rainfall.

3.0 PURPOSE AND OBJECTIVES

This report presents the sampling procedures and results from groundwater sampling performed from 27 to 28 July 2005 from six wells on-site: MW-3 through MW-8 (Figure 2).

The purpose of this groundwater sampling event was to provide water level and water quality data at the site from wells MW-3 through MW-8. Table 1 provides the construction details of monitoring wells MW-3 through MW-8. The following tasks were completed as part of the monitoring event:

1. Measure water level at six monitoring wells;

2. Purging and collection of groundwater samples from six monitoring wells;

3. Collection of physical water quality parameters as the wells were sampled (electrical conductivity, total dissolved solids, turbidity, oxidation reduction potential (ORP), and pH);

4. Groundwater samples analysis for VOCs by United States Environmental Protection Agency (EPA) Method 8260B, 1,4-dioxane and 1,2,3-trichloropropane by EPA Method SRL 524M-TCP; and

5. Laboratory analysis of QA/QC samples (equipment blank and field blank) for VOCs by EPA Method 8260B.

4.0 SITE GEOLOGY AND HYDROGEOLOGY

4.1 Site Geology

The Site surface varies from an elevation of approximately 40 to 45 ft relative to mean sea level (msl) in tract G of Section 1, Township 4S, Range 14W relative to the San Bernardino Base line and Meridian, as displayed on the US Geological Survey (USGS) 7.5-minute topographic quadrangle map of Torrance-California (USGS, 1964). The local topography in the Site vicinity is relatively flat with street drainage to the east toward the Dominguez Channel which is located approximately one mile to the east. The Dominguez Hills are located approximately 1.9 miles to the northeast.

The Site is located in the south central portion of the Torrance Plain (California Department of Water Resources [DWR], 1961). The Torrance Plain consists of elevated, dense, silty sand of older alluvium that is covered, locally, with moderately dense silty sand of older eolian deposits. The Pleistocene older alluvium of the Torrance Plain is incised and filled with soft, locally derived sandy silt and sandy clay of younger alluvium. According to DWR, regional materials in the Site area consist of the following:

Formation	Hydrogeologic Unit	Depth Range (feet bgs)	Composition
Lakewood	Bellflower Aquiclude*	Ground Surface to 120 feet	Sand, silt, and clay
	Gage Aquifer	125 to 160 feet	Fine to medium sand
San Pedro	Un-named Aquiclude	160 to 270 feet	Silt and clay
	Lynwood	270 to 350 feet	Sand and gravel
	Un-named Aquiclude	350 to 475 feet	Silt and Clay
	Silverado Aquifer	475 to 740 feet	Sand and gravel

Source: DWR, 1961
Notes: *Includes the B and C hydrostratigraphic subdivisions by URS (URS 2005)
bgs – below ground surface

During the site investigation conducted in 2003, materials encountered beneath the site consisted primarily of clayey and sandy silt and silty sand to depths of 45 to 55 feet, underlain by fine and medium sand and silty sand to at least 110 feet bgs. A relatively horizontal marker layer of clayey silt and silty sand with abundant white marine shells was observed at approximately 45 feet bgs. The fine and medium sand layer has an apparent dip to the east. Varying thicknesses of silt and silty sand were observed between the marker bed and the underlying sand layer (Hart Crowser, December 2003).

4.2 Hydrogeology

Hydrogeologically, the Site is located in the pressure area of the West Coast Groundwater Basin and is separated from the main Central Basin by the Newport-Inglewood Fault. The West Coast Groundwater Basin is contained within the Southwestern Structural Block of the Central Plain. Fresh groundwater-bearing sediments within the Central Basin range in age from Holocene to Pliocene, and extend to depths in excess of 1,500 feet. The separate hydraulic units below this portion of the Central Basin are named successively with depth in the table above (Hart Crowser, December 2003).

Based on interpretations presented by URS in the Del Amo Baseline Groundwater Sampling Report, the groundwater flow is southeast in Middle Bellflower B and C Sand and east-southeast in Gage aquifer. Historically, the groundwater flow was towards south-southwest in the northern and central portions of the former plant site but highly variable, yet to the southwest in southern portion of the former plant site (URS, 2005). Wells SWL0029 (Middle Bellflower B Sand), SWL0030 (Middle Bellflower C Sand), and SWL0031 (Gage aquifer) are located on the eastern side of the Site (URS, 2005).

4.3 Site Groundwater Elevations and Gradient

In July 2005, the groundwater levels were measured using an electronic water level probe. The groundwater elevations ranged from -12.77 ft relative to msl in MW-8 to -12.26 ft msl in MW-3. Groundwater elevations were calculated using top-of-casing surveys conducted on 17 January 2003 (Hart Crowser, December 2003). When compared to gauging data from January 2003, the groundwater elevations increased across the site by approximately 1.60 feet. Current and historical groundwater elevations are summarized in Table 2, and the variation of groundwater elevations since January 2003 is depicted on Figure 3.

The groundwater elevations measured on 27 July 2005 were used to develop the groundwater elevation contours depicted in Figure 4. The direction of groundwater flow around MW-7 (rainwater interceptor area) is towards west whereas from MW-3 (utility area) is towards south. Overall, the contours indicate that the direction of groundwater flow is generally to the south-southwest. The water level data measured on 27 July 2005 suggests groundwater beneath the Site flows to the south-southwest at a depth of approximately 55 feet (-12.5 feet relative to mean sea level). As per the Del Amo Baseline Groundwater Sampling Report, the water levels show long-term trend of rising groundwater levels (URS, 2005).

4.4 Groundwater Sampling Methodology

In accordance with the Work Plan, prior to collecting groundwater samples, each monitoring well was gauged using an electronic water level meter and then purged using the following procedures:

- The pump and associated equipment were decontaminated with an Alconox water rinse, fresh water rinse, and distilled water rinse.

- The intake from a Grundfos Redi-Flo2 submersible pump was located near the middle of the monitoring well's saturated screen interval.
- Water quality and water level measurements were collected. All measurements (except depth to water) were performed using a HORIBA U-22 Water Quality Monitor, multi-parameter probe equipped with a flow-through cell. Measurements of the following parameters were recorded every 3 to 5 minutes:
  - Depth to Water (feet) and Depth to Product (feet), if present
  - pH (Units)
  - Electrical Conductivity (milliSiemens per centimeter [mS/cm])
  - Turbidity (Nephelometric Turbidity Unit [NTU])
  - Oxidation Reduction Potential (milliVolts [mV])
  - Temperature (Celsius)
  - Dissolved Oxygen (milligrams per Liter [mg/L])
- Monitoring wells were purged using low flow sampling methods until field parameters were stabilized. Field parameters were considered stabilized after three successive readings where no more than the following variation in measurements were observed:
  - ± 0.1 pH (Units)
  - ± 3% Electrical Conductivity (mS/cm)
  - ± 10% Oxidation Reduction Potential (mV)
  - ± 10% Turbidity (NTUs)
  - -± 10% Dissolved Oxygen (mg/L)
- After the monitoring wells were purged, the flow-through cell was removed from the purge line and groundwater samples were collected directly from the pump's discharge tubing into appropriate sampling containers.

Groundwater elevation measurements collected using the electronic water level meter are summarized in Appendix A. Groundwater samples were collected using laboratory-provided sample containers, stored in a chilled cooler, and submitted to Calscience Environmental Laboratories, Inc. (Calscience) in Garden Grove, California following chain-of-custody procedures. Groundwater samples from the July 2005 sampling event were analyzed for VOCs and other oxygenates using EPA Method 8260B and 1,4-dioxane and 1,2,3-trichloropropane by EPA Method SRL 524M-TCP. The groundwater sampling logs completed during field activities are provided in Appendix B.

4.5 Field Quality Control Samples

Field Blank (#FB072705)

A field blank was collected on 27 July 2005 to identify potential VOC sample contamination that could have occurred during field collection, handling and shipment, and storage of the water samples. The field blank was collected by the sampling crew under normal sampling conditions at the same time the regular water quality samples were collected. Wearing the same gloves used for the rest of the sampling, Deionized (D.I.) water was poured directly into the appropriate containers. The field blank was submitted to the analytical laboratory and analyzed for VOCs by EPA Method 8260B.

Equipment Rinsate Blank (#EB072705)

An equipment rinsate blank was collected on 27 July 2005. The equipment rinsate blank was obtained by pouring D.I. water through the decontaminated field sampling equipment that was considered ready to collect or process an additional sample. The purpose of collecting the equipment rinsate blank is to assess the adequacy of the decontamination process. The equipment blank was obtained following completion of the discrete sampler decontamination/cleaning process and submitted to the analytical laboratory and analyzed for VOCs by EPA Method 8260B.

5.0 GROUNDWATER MONITORING RESULTS

5.1 Groundwater Sampling Analytical Results

The analytical results of groundwater samples obtained during the current and previous monitoring periods are summarized in Tables 3a and 3b. Laboratory analytical reports are provided in Appendix C.

Based on the results of the laboratory analyses of groundwater samples collected during the July 2005 monitoring event, the following conditions exist at the site (Table 3a and 3b):

- Benzene was detected above the California Maximum Contaminant Level (MCL) for this constituent (1 μg/L) in all wells sampled, with concentrations ranging from 3 μg/L in MW-8 to 36 μg/L in MW-5;
- PCE was detected in all wells sampled, with concentrations ranging from 390 μg/L in MW-7 to 7,100 μg/L in MW-5;
- TCE was detected in all wells sampled, with concentrations ranging from 1,300 μg/L in MW-7 to 19,000 μg/L in MW-5;
- When compared to the January 2003 monitoring event, the TCE and PCE concentrations have increased in wells MW-3 (only PCE), MW-6, & MW-8 and decreased in wells MW-4, MW-5, and MW-7;
- Chloroform was detected at or above the MCL (80 μg/L) in all the wells except MW-7 and MW-8;
- 1,1-Dichloroethane (MCL, 5 μg/L) and 1,1-Dichloroethene (MCL, 6 μg/L) were detected in all the wells;
- cis-1,2-dichloroethene was detected above the MCL (6 μg/L) in all the wells with concentrations ranging from 73 μg/L in MW-8 to 3,400 μg/L in MW-4;
- 1,1,1-Trichloroethane was detected above the MCL (200 μg/L) in MW-7 with a concentration of 280 μg/L;
- MTBE was detected only in well MW-7 (7.7 μg/L) below the MCL of 13 μg/L;
- DIPE was detected above the laboratory detection limit (2.0 μg/L) in wells MW-3, MW-4, and MW-5;
- Vinyl chloride was detected above the MCL (0.5 μg/L) in wells MW-4 (2.3 μg/L), MW-5 0.6 (μg/L), and MW-7 (29 μg/L);
- 1,2,3-trichloropropane and 1,4-dioxane were not detected above laboratory detection limit; and
- The equipment blank and field blank VOC concentrations were below the laboratory detection limit.

6.0 WASTE MANGEMENT

Purge water and decontamination water resulting from groundwater sampling activities was temporarily stored on-site with labels in 55-gallon DOT-approved drums. The stored water will be transported off-site in accordance with State and Federal requirements. Following receipt of monitoring well sample data and AMEC will arrange for shipment and disposal of purge water to a facility approved by PACCAR (DeMenno Kerdoon, Compton, California).

7.0 CONCLUSIONS

- The groundwater levels ranged from 53.80 ft from top of casing (TOC) in MW-7 to 56.10 ft TOC in MW-3 and the direction of groundwater flow is towards south-south west;
- Groundwater levels increased by approximately 1.60 ft msl across the site compared to previous monitoring events;
- Benzene concentrations showed a decrease in all wells sampled except MW-3 (<25 µg/L in January 2003 to 31 µg/L in July 2005);
- PCE was detected in all the wells sampled with concentrations ranging from 390 µg/L in MW-7 to 7,100 µg/L in MW-5;
- TCE was detected in all the wells sampled with concentrations ranging from 1,300 µg/L in MW-7 to 19,000 µg/L in MW-5;
- When compared to January 2003 monitoring event, the TCE and PCE concentrations have <u>increased</u> in wells MW-3 (only PCE), MW-6, & MW-8 and <u>decreased</u> in wells MW-4, MW-5, and MW-7; and
- 1,1-dichloroethane, 1,2-dichloroethane (except MW-8), 1,1-dichloroethene, chloroform (except MW-7, MW-8), and cis-1,2-dichloroethene concentrations were at or above the MCLs in the wells that were sampled.

8.0 REFERENCES

United States Geological Survey, 1964. Topographic Map for the Torrance Quadrangle, 7.5-Minute Map, photorevised, 1981

SCS Engineers (SCS), Preliminary Draft Report for Additional Site Investigation at the Trico Industries Facility, 19706 Normandie Avenue, Torrance, California, 1987

H2O Science, Inc. Trico - Preliminary Site Characterization Report, Former Trico industries Facility, July 12, 1995

Puls, Robert W. and Barcelona, Michael J., 1996. *Low-Flow (minimal Drawdown) Ground-Water Sampling Procedures*. US EPA Document No. EPA/540/S-95/504, April 1996

EPA, 1999 Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume 1. March 1999

Hart Crowser, Inc., Phase II Investigation Report, 1206 West 196th Street, Torrance, California, November 2000

Hart Crowser, Inc., Supplemental Site Investigation Report for Former Trico Facility, December 10, 2003

Hart Crowser, Inc., Supplemental Site Investigation – Additional Assessment Report, November 2, 2004

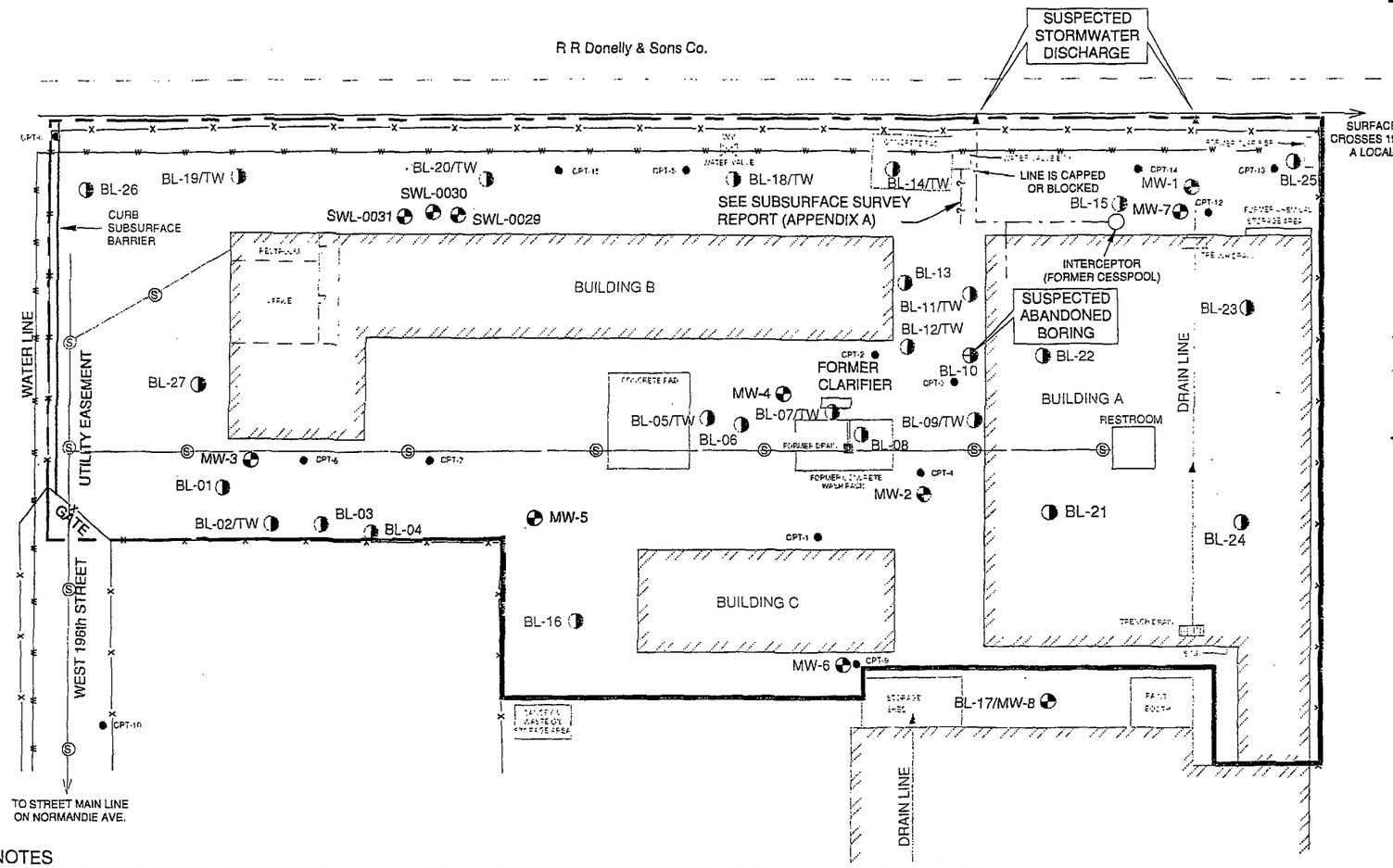
URS 2005, Del Amo Baseline Groundwater Sampling Report, Joint Montrose Chemical and Del Amo Superfund Sites, Los Angels, California, April 2005

FIGURE 1
SITE LOCATION MAP

amec

Source: United States Geological Survey 1964
Torrance, California Quadrangle
7.5-minute (topographic)series
Photorevised 1981

PACCAR 03271



LEGEND

- Monitoring Well (MW-8), Del Amo Monitoring Wells (SWL-0029)
- Monitoring Well Abandoned (MW-2)
- Cone Penetrometer Test (CPT) Boring (CPT-12)
- Soil Boring (BL-15)
- Suspected Abandoned Boring
- Sewer Manhole
- Fence
- Surface Drainage Channel
- Railroad Spur
- Approximate Location of 12-inch Transite Water Main
- Approximate Location of Sewer Line
- Approximate Location of Piping Associated with Interceptor
- Site Boundary
- Building

NOTES

1: BENCHMARK: VERTICAL DATUM NGVD29
LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - TEMPORARY WELL LOCATION

5: WATER SERVICEIS PROVIDED TO FORMER TRICO BUILDING "A" AND MIGHTY USA PROPERTY BY OVERHEAD PIPELINE EXTENDED FROM "WATER VALVE BOX" ALONGSIDE THE NORHT FACE OF BUILDING "A"

6: CPT-11 IS LOCATED OFF THE PLAN, ON WEST 196th STREET APPROXIMATELY 200 FEET WEST OF CPT-10

7: (FORMER CESSPOOL) - FORMERLY REFERRED TO AS CESSPOOL

SCALE: 1" = 50'

0' 25' 50' 75' 100'

FORMER TRICO FACILITY
1206 W 196TH STREET
TORRANCE, CALIFORNIA

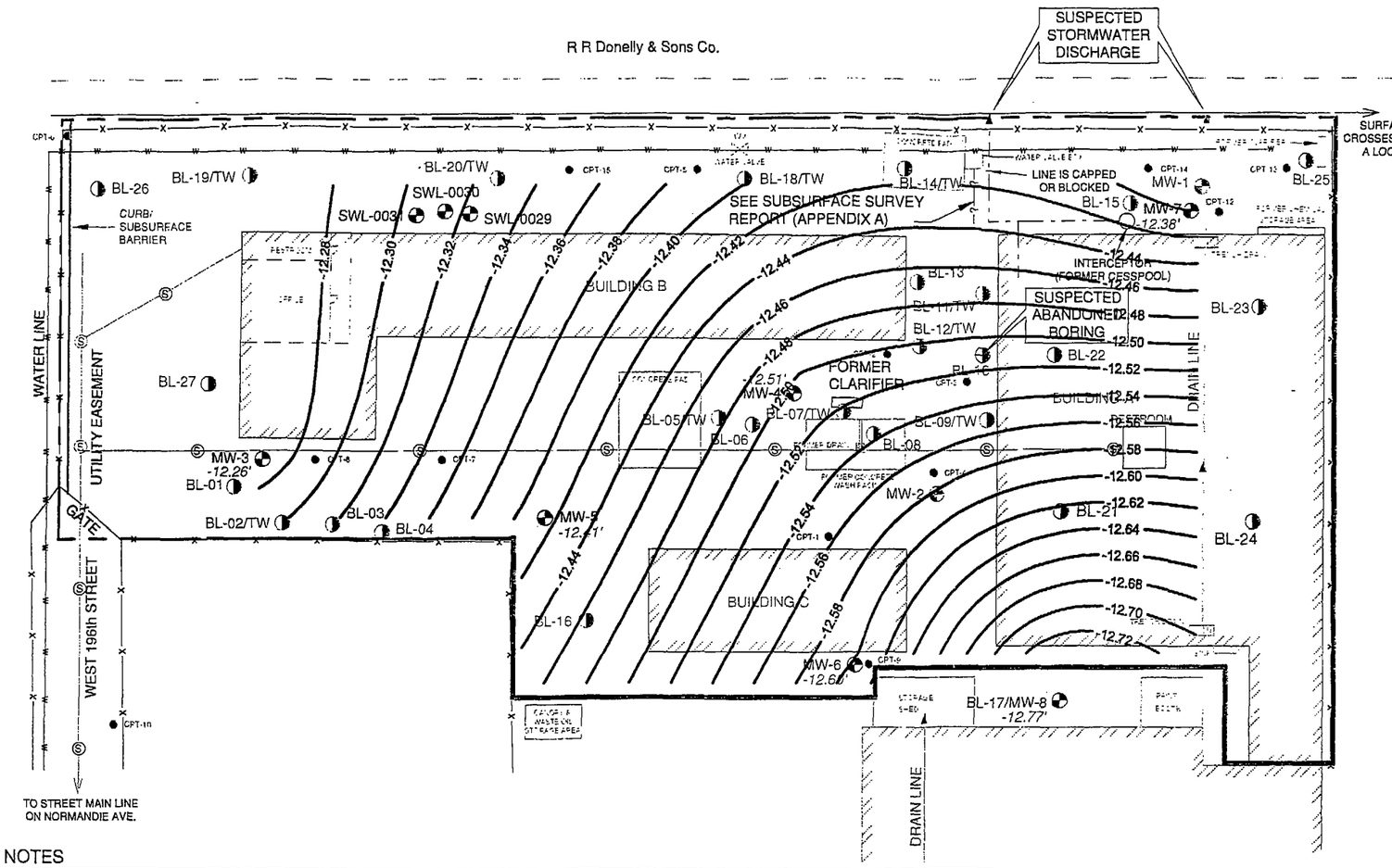
amec

7376 S.W. DURHAM ROAD
PORTLAND, OR 97224

SCALE:	1" = 50'	JOB NO.	5-91M-15268-0 P-07A
DESIGNED:	PDS	DATE:	DECEMBER 2005
DRAWN:	DD	REVISION:	
CHECKED:		SIGNED:	
APPROVED:		SIGNED:	

MONITORING WELL LOCATIONS — FIGURE 2

AMEC DRAWING NO. K:\ AMEC US OFFICES \ KIRKLAND \ PACCAR - TORRANCE - 5-91M-15268-0 \ 5-91M-15268-0 FIG-2 SITE LAYOUT-HASP. DWG



LEGEND

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- Soil Boring (BL-15)
- Suspected Abandoned Boring
- Sewer Manhole
- Fence
- Surface Drainage Channel
- Railroad Spur
- Approximate Location of 12-inch Transite Water Main
- Approximate Location of Sewer Line
- Approximate Location of Piping Associated with Interceptor
- Site Boundary
- Building
- -12.51' Groundwater Elevations , Feet MSL

NOTES

1: BENCHMARK: VERTICAL DATUM NGVD29
LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

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SCALE:	1" = 50'	JOB NO.	5-91M-15268-0 P-07A
DESIGNED:	PDS	DATE:	DECEMBER 2005
DRAWN:	DD	REVISION:	
CHECKED:		SIGNED:	
APPROVED:		SIGNED:	

GROUNDWATER ELEVATION CONTOURS — FIGURE 3

AMEC DRAWING NO. K:\ AMEC US OFFICES \ KIRKLAND \ PACCAR - TORRANCE - 5-91M-15268-0 \ 5-91M-15268-0 FIG-2 SITE LAYOUT-HASP. DWG

PACCAR, Inc.
Former Trico Facility
Torrance, CA

Table 1: Monitoring Well Contruction Summary

Well ID	Installation Date*	Screen Material	Casing Material	Casing Diameter (inches)	Total Depth of Boring (Ft BGS)	Screened Interval (Ft BGS)	Sand Pack Depth Interval (Ft BGS)	Top of Casing Elevation (Ft MSL)	Northing	Easting
MW-3	06/26/95	0.02" Slot Stainless Steel	PVC	2	69.5	57-67	55.5-67	43.84	1769023.2	6471344.7
MW-4	06/27/95	0.02" Slot Stainless Steel	PVC	2	65	55-65	53-65	42.59	1768813.7	6471373.0
MW-5	08/25/00	0.01" Slot Stainless Steel	PVC	4	65	55.2-65.2	53.2-65.2	43.14	1768908.8	6471321.9
MW-6	08/25/00	0.01" Slot Stainless Steel	PVC	4	65	54.5-64.5	52.5-65	43.22	1768788.4	6471263.8
MW-7	08/24/00	0.01" Slot Stainless Steel	PVC	4	65*	54-64	52-65*	41.42	1768659.7	6471442.6
MW-8	12/10/02	0.02" Slot Stainless Steel	PVC	4	69	52.9-62.9	48-69	42.33	1768708.2	6471251.4

Notes
(1) Surveyed by Dulin and Boynton Surveyors on 1/17/2003 (as reported in Supplemental Site Investigation Report, Hart Crowser, Dec 2003)
Ft BGS indicates feet below ground surface
Ft MSL indicates feet above meaan sea level
* Estimated depth based on surrounding wells and construction date as well log missing

PACCAR, Inc.
Former Trico Facility
Torrance, CA

Table 2: Monitoring Well Gauging

Well ID	Date	Casing Diameter (inches)	Total Depth of Boring (ft BGS)	Top of Casing Elevation (ft MSL)	Measured Depth to Water from TOC (ft)	Measured Total Depth from TOC (ft)	Groundwater Elevation (ft MSL)	Change in Groundwater Elevation (ft MSL)
MW-3	02/18/2003	2	69.5	43.84	57.72	NA	-13.88	
	07/27/2005	2	69.5	43.84	56.10	66.20	-12.26	1.62
MW-4	02/18/2003	2	65	42.59	56.64	NA	-14.05	
	07/27/2005	2	65	42.59	55.10	64.50	-12.51	1.54
MW-5	02/18/2003	4	65	43.14	57.17	NA	-14.03	
	07/27/2005	4	65	43.14	55.55	64.70	-12.41	1.62
MW-6	02/18/2003	4	65	43.22	57.34	NA	-14.12	
	07/28/2005	4	65	43.22	55.82	64.60	-12.60	1.52
MW-7	02/18/2003	4	NA	41.42	55.59	NA	-14.17	
	07/27/2005	4	NA	41.42	53.80	63.90	-12.38	1.79
MW-8	02/18/2003	4	69	42.33	56.61	NA	-14.28	
	07/28/2005	4	69	42.33	55.10	67.00	-12.77	1.51
								1.60 <--Average

Notes:

(1) Surveyed by Dulin and Boynton Surveyors on 1/17/2003 (as reported in Supplemental Site Investigation Report, Hart Crowser, Dec 2003)

ft BGS indicates feet below ground surface

ft MSL indicates feet above meaan sea level

TOC - Top of Casing

NA-Not Available

PACCAR, Inc.
Former Trico Facility
Torrance, CA

Table 3a: Summary of Monitoring Well Analytical Results

Boring Location	Date Sampled	Analyte, VOCs by EPA Method 8260B, ug/L										Analyte by SRL524M-TCP		Physical Parameters					
															ms/cm	NTU	°C	mg/L	mV
		Benzene	Chloroform	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene (TCE)	Tetrachloroethene (PCE)	1,2,3-Trichloropropane	1,4-dioxane	pH	Specific Conductivity	Turbidity	Temperature	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)
MW-1	07/08/1987	1.1	ND	ND	11	ND	NA	ND	4	ND	2	NA	NA	NA	NA	NA	NA	NA	NA
	04/04/1988	ND	6	ND	25	2,400	NA	ND	1,200	470	160	NA	NA	NA	NA	NA	NA	NA	NA
	03/04/1993	220	ND	1,500	ND	720	110	ND	3,300	420	ND	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/1994	ND	ND	1,800	ND	220	100	ND	120	5,400	1,800	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/1995	21	11	2,900	37	300	NA	ND	100	3,700	800	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/1998	<100	<100	2,800	<100	700	230	<50	<100	7,300	1,600	NA	NA	NA	NA	NA	NA	NA	NA
	<<< Well abandoned 8/28/98 >>>																		
MW-2	04/04/1988	ND	7	ND	ND	ND	ND	ND	ND	130	79	NA	NA	NA	NA	NA	NA	NA	NA
	09/13/1990	ND	8	ND	ND	ND	10	ND	ND	470	220	NA	NA	NA	NA	NA	NA	NA	NA
	04/26/1993	ND	7	ND	ND	5	6	ND	ND	910	400	NA	NA	NA	NA	NA	NA	NA	NA
	03/10/1994	ND	ND	ND	ND	20	15	ND	ND	960	410	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/1995	ND	ND	ND	ND	ND	ND	ND	ND	1,800	460	NA	NA	NA	NA	NA	NA	NA	NA
	09/04/1998	<100	<100	<100	<100	<100	400	<50	<100	6,400	2,400	NA	NA	NA	NA	NA	NA	NA	NA
	<<< Well abandoned 8/28/98 >>>																		
MW-3	06/28/1995	40.0	99.0	24.0	19.0	140.0	NA	1.8	ND	30,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA
	09/08/1998	<250	<250	<250	<250	<250	680	<120	<250	25,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA
	d 09/08/1998	<250	<250	<250	<250	<250	660	<120	<250	22,000	11,000	NA	NA	NA	NA	NA	NA	NA	NA
	04/05/2000	<50	110	<100	54.0	<100	540	<100	<100	15,000	5,100	NA	NA	NA	NA	NA	NA	NA	NA
	d 04/05/2000	<50	120	<100	<50	<100	570	<100	<100	14,000	5,000	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/2000	33.0	93	<50	<25	85	590		<50	27,000	9,800	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/2003	<25	80	<25		49	420	<25	<25	18,000	3,700	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<1.0	120	<1.0	<0.5	50	410	<1.0	<1.0	18,000	5,500	<0.5	<200	6.9	2.4	19.2	23.60	1.61	105
MW-4	06/28/1995	62	190	48	21	150	NA	2.4	ND	30,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA
	09/08/1998	<250	<250	<250	<250	<250	4,700	<120	<250	21,000	8,100	NA	NA	NA	NA	NA	NA	NA	NA
	04/05/2000	<50	170	<100	<50	<100	3,200	<100	<100	13,000	5,200	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/2000	29.0	140	<50	<25	51	3,500		<50	17,000	6,700	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/2003	<25	220	<25		62	6,200	56	<25	25,000	6,500	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<1.0	110	<1.0	17	52	3,400	12	<1.0	7,600	4,300	<0.5	<200	6.70	1.7	21.0	26.08	5.31	79
MW-5	08/31/2000	<250	<500	<500	<250	<500	730		<500	34,000	15,000	NA	NA	NA	NA	NA	NA	NA	NA
	d 08/31/2000	<250	<500	<500	<250	<500	750		<500	31,000	14,000	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/2003	52	140	<25		110	830	<25	<25	46,000	12,000	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<5	170	<5	35	50	1,200		<5	19,000	7,100	<0.5	<200	6.52	1.87	63.1	27.27	3.77	64
MW-6	08/30/2000	<5	29	<10	<5	46	51		<10	1,400	290	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/2003	<25	<25	<25		<25	160	<25	<25	8,000	1,700	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<1.0	90	<1.0	3	37	280	0.5	<1.0	9,000	2,200	<0.5	<200	5.90	2.38	17.10	30.33	3.68	14
MW-7	08/30/2000	6	<10	2,200	12.0	860	64		240	1,400	290	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/2003	<25	<25	2,100		1,000	86	<25	130	3,100	440	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<1.0	6.5	1,900	12.6	900	150	<1.0	280	1,900	390	<0.05	<20	5.38	0.92	24.00	25.48	5.81	45
MW-8	01/17/2003	<2.5	5.8	<2.5		28	22	<2.5	<2.5	750	250	NA	NA	NA	NA	NA	NA	NA	NA
	d 01/17/2003	<2.5	6.0	<2.5		26	20	<2.5	<2.5	740	250	NA	NA	NA	NA	NA	NA	NA	NA
	07/29/2005	<1.0	6	<1.0	0.5	51	79	<1.0	0.7	1,900	590	<0.05	<20	6.25	1.74	21.60	27.80	5.22	14
EB1-072705	07/27/2005	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	-	-	-	-	-	-
FB1-072805	07/27/2005	<0.5	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA	-	-	-	-	-	-
MCL	µg/L - ppb	1	80	5	0.5	6	6	10	200	5	5	na	na	-	-	-	-	-	-

Notes
< = Below the Practical Quantitation Limit
VOCs - Volatile Organic Compounds
µg/L - micrograms per Liter
NA- Not Analyzed, ND - Not Detected
(d) - Indicates duplicate
NA- not available
EB - Equipment Blank
FB - Field Blank

PACCAR, Inc.
Former Trico Facility
Torrance, CA

Table 3b: Summary of July 2005 Groundwater Monitoring Analytical Results and Physical Parameters

WELL ID	Date Sampled	VOCs by EPA Method 8260B, ug/L														SRL 524M-TCP, ug/L	
		Benzene	Chloroform	MTBE	1,1-Dichoroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Tetrachloroethene	Vinyl chloride	1,2,3-Trichloropropane	1,4-Dioxane
MW-3	07/27/2005	31	120	<1.0	22	8.6	92	710	2.8	<1.0	<1.0	5.3	18,000	6,500	<0.5	<0.5	<200
MW-4	07/27/2005	7.8	110	<1.0	29	17	32	3,400	12	1.1	<1.0	7.9	7,600	4,300	2.3	<0.5	<200
MW-5	07/27/2005	36	170	<1.0	42	36	69	1,200	7.3	1.6	<1.0	17	19,000	7,100	0.6	<0.5	<200
MW-6	07/28/2005	17	80	<1.0	51	4.0	87	280	5.0	<1.0	7.6	2.2	9,000	2,200	<0.5	<0.5	<200
MW-7	07/27/2005	3.4	8.6	7.7	1,900	2.8	900	150	<1.0	<1.0	280	1.1	1,300	390	29	<0.05	<20
MW-8	07/28/2005	3.0	18	<1.0	25	<0.5	51	73	<1.0	<1.0	4.7	<1.0	1,900	530	<0.5	<0.05	<20
EB1-072705	07/27/2005	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	NA	NA
FB1-072705	07/27/2005	<0.5	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	NA	NA
MCL	ug/L - ppb	1	80	13	5	0.5	6	6	10	1	200	5	5	5	0.5	na	na

Notes
< = Below the Practical Quantitation Limit
VOCs - Volatile Organic Compounds
µg/L - micrograms per Liter
NA- Not Analyzed, ND - Not Detected
(d) - Indicates duplicate
na-not available
EB - Equipment Blank
FB - Field Blank

PACCAR, Inc.
Former Trico Facility
Torrance, CA

Table 2: Monitoring Well Gauging

Well ID	Date	Casing Diameter (inches)	Total Depth of Boring (ft BGS)	Top of Casing Elevation (1) (Ft MSL)	Measured Depth to Water from TOC (ft)	Measured Total Depth from TOC (ft)	Groundwater Elevation (ft MSL)	Change in Groundwater Elevation (ft MSL)
MW-3	02/18/2003	2	69.5	43.84	57.72	NA	-13.88	
	07/27/2005	2	69.5	43.84	56.10	66.20	-12.26	1.62
MW-4	02/18/2003	2	65	42.59	56.64	NA	-14.05	
	07/27/2005	2	65	42.59	55.10	64.50	-12.51	1.54
MW-5	02/18/2003	4	65	43.14	57.17	NA	-14.03	
	07/27/2005	4	65	43.14	55.55	64.70	-12.41	1.62
MW-6	02/18/2003	4	65	43.22	57.34	NA	-14.12	
	07/28/2005	4	65	43.22	55.82	64.60	-12.60	1.52
MW-7	02/18/2003	4	NA	41.42	55.59	NA	-14.17	
	07/27/2005	4	NA	41.42	53.80	63.90	-12.38	1.79
MW-8	02/18/2003	4	69	42.33	56.61	NA	-14.28	
	07/28/2005	4	69	42.33	55.10	67.00	-12.77	1.51
								1.60 <--Average

Notes:

(1) Surveyed by Dulin and Boynton Surveyors on 1/17/2003 (as reported in Supplemental Site Investigation Report, Hart Crowser, Dec 2003)

ft BGS indicates feet below ground surface

ft MSL indicates feet above meaan sea level

TOC - Top of Casing

NA-Not Available

Groundwater Sampling Log

amec

Well Number: MW-6	Date: 07/28/05	Project: PACCAR Inc. –Trico Torrance	Project No.: 591M15628

Gauging Data from Top of Casing (Reference Point)

TOC Elevation (ft):	Climatic Conditions: sunny clear		Gauging Time: 848 Gauger's Initials: MMR
Depth to Water (ft): 55.82	Total Well Depth (ft, TWD): 64.60	Water Column Height (ft, H): 8.78	80% of Original Water Column Height (ft) = TWD–(H * 0.8) =

Development/Sample Purge Volume Calculations (low flow sampling excluded)

Borehole Diameter (in):	Casing Diameter (in): 4	Capacity of Filter Pack ( ) * H = gals	Capacity of Casing ( ) * H = gals
1 Borehole Volume (gals) = Capacity of Filter Pack + Capacity of Casing =		3 Boreholes to Purge * 1 borehole volume ( ) =	Total Purge Volume (gals)

Capacity of Casing: 1" casing – 0.04 / 2" casing – 0.16 / 4" casing – 0.65 / 6" casing – 1.47 / 8" casing – 2.81 / 10" casing – 4.08 / 12" casing – 5.87 (gals/foot)
Capacity of Filter Pack (40% Porosity): 2" casing and 6" hole – 0.52 / 2" casing and 8" hole – 0.98 / 4" casing and 8" hole – 0.78 / 4" casing and 10" hole – 1.37 (gals/foot)

Groundwater Purge Data

Purge Equipment: Rediflo 2 | Sampling Equipment: Disposable PVC Bailer / (2" Grundfos Pump) | Pump Set @ 62 ft BGS

Depth to Water (ft)	Time (military)	Purge Rate (gpm)	Volume Removed (gallons)	pH (S.U.)	Specific Conductivity (uS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)	Remarks
55.82	850	0.15	Start	Purging.						light brown
	900		31.5	6.88	1.98	185.0	27.86	11.62	-48	light brown
56.61	915	0.1	32.0	6.90	1.99	190.0	29.10	9.95	-41	light brown
56.49	920	0.1	32.5	6.90	2.03	207.0	29.95	6.98	-28	light brown
56.40	925	0.1	33.0	6.90	2.03	191.0	30.26	6.61	-25	light brown.
56.28	930	0.1	3.5	6.90	2.04	193.0	30.46	5.95	-17	cloudy/light brown
56.25	935	0.1	4.0	6.90	2.04	185.0	30.51	5.84	-15	cloudy
56.20	940	0.15	4.50	6.90	2.04	187.0	30.50	5.76	-14	cloudy
56.18	945	0.15	5.50	6.90	2.03	180.0	30.57	5.71	-14	cloudy
56.14	950	0.15	6.00	6.90	2.03	171.0	30.53	5.68	-14	cloudy
	955	Collected		Samples.						

Purging complete when 3 consecutive measurements (3 – 5 minutes apart) are within 10% of each other.

Collect sample after well has recovered to within 80% of Original Water Column Height or 2 hours after purging has stopped.

Sample ID (time): MW-6-072805 (0955) Dup ID: ( ) QA/QC ID: EB2-072805 (0840)

Analytical Methods: 8260B 3 VOA's, 524.2 3 VOA's, & 1,4-Dioxane 1L Amber Sampler: MMR

PACCAR 03279

Groundwater Sampling Log

amec

Well Number: MW-8	Date: 7/28/05	Project: PACCAR Inc. –Trico Torrance	Project No.: 591M15628

Gauging Data from Top of Casing (Reference Point)

TOC Elevation (ft):	Climatic Conditions: Sunny Hot	Gauging Time: 1025	Gauger's Initials: MMR
Depth to Water (ft): 55.10	Total Well Depth (ft, TWD): 67.00	Water Column Height (ft, H): 11.90	80% of Original Water Column Height (ft) = TWD–(H * 0.8) = 5748

Development/Sample Purge Volume Calculations (low flow sampling excluded)

Borehole Diameter (in):	Casing Diameter (in):	Capacity of Filter Pack ( ) * H = gals	Capacity of Casing ( ) * H = gals
1 Borehole Volume (gals) = Capacity of Filter Pack + Capacity of Casing =		3 Boreholes to Purge * 1 borehole volume ( ) =	Total Purge Volume (gals)

Capacity of Casing: 1" casing – 0.04 / 2" casing – 0.16 / 4" casing – 0.65 / 6" casing – 1.47 / 8" casing – 2.81 / 10" casing – 4.08 / 12" casing – 5.87 (gals/foot)
Capacity of Filter Pack (40% Porosity): 2" casing and 6" hole – 0.52 / 2" casing and 8" hole – 0.98 / 4" casing and 8" hole – 0.78 / 4" casing and 10" hole – 1.37 (gals/foot)

Groundwater Purge Data

Purge Equipment: Rediflo 2	Sampling Equipment: Disposable PVC Bailer / 2" Grundfos Pump	Pump Set @ 61 ft BGS

Depth to Water (ft)	Time (Military)	Purge Rate (gpm)	Volume Removed (gallons)	pH (units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)	Remarks
55.10	1040	0.2	Start		purging					
	1045	0.2	1	6.81	1.77	208.0	25.77	13.91	-2	light greyish brown
57.02	1050	0.2	2	6.62	1.76	296.0	26.17	8.79	-4	light brown
57.10	1055	0.25	3	6.58	1.76	297.0	26.76	7.39	5	light brown
57.17	1100	0.25	≈4.5	6.57	1.75	255.0	27.19	5.81	10	light brown
57.23	1105	0.25	≈5.0	6.57	1.74	222.0	27.55	5.31	13	cloudy
57.25	1110	0.25	7.25	6.57	1.74	218.0	27.61	5.29	13	cloudy
57.23	1115	0.25	8.50	6.58	1.74	216.0	27.80	5.22	14	cloudy
57.22	1120	0.25	9.25							cloudy.
	1125	Collect			Samples					

Purging complete when 3 consecutive measurements (3 – 5 minutes apart) are within 10% of each other.

Collect sample after well has recovered to within 80% of Original Water Column Height or 2 hours after purging has stopped.

Sample ID (time): MW-8-072805 (1125) Dup ID: _____ ( ) QA/QC ID: _____ ( )

Analytical Methods: 8260B, 524.2, & 1,4-Dioxane Sampler: MMR
3 vog's 3 vog's 1L Amber

PACCAR 03280

amec

Field Activity Daily Log

Project: TRI Co TORRANCE
Job No.: 561M15628
Day & Date: Thursday, 7/28/05

Completed By: Mahesh
Approved By:
Page 1 of 1

Field Activity Subject: GW Sampling

Time	Description of Daily Activities and Events
6:15	load equipment
7:45	@ site
7:50	sign-in @ office desk
1020	finished MW-6
1150	Finished MW-8
1205	House keeping
1230	Move Drums
1330	Back @ office
1430	Returned Equipment
1500	logged in PACCAR FOLDER

Visitors On Site:	Changes from Plans and Specifications, and other special orders and important decisions:
Weather Conditions: Sunny Hot	Important Telephone Calls:
Personnel on Site: Mahesh, Fred Benz.	

Groundwater Sampling Log

amec

Well Number: MW-3	Date:	Project: PACCAR Inc. –Trico Torrance	Project No.: 591M15628

Gauging Data from Top of Casing (Reference Point)

TOC Elevation (ft):	Climatic Conditions: Sunny Clear		Gauging Time: 0840 Gauger's Initials: MMR
Depth to Water (ft): 56.10	Total Well Depth (ft, TWD): 66.20	Water Column Height (ft, H): 10.10	80% of Original Water Column Height (ft) = TWD–(H * 0.8) = 58.12

Developmen / Sample Purge Volume Calculations (low flow sampling excluded)

Borehole Diameter (in):	Casing Diameter (in): 2	Capacity of Filter Pack ( ) * H = gals	Capacity of Casing ( ) * H = gals
1 Borehole Volume (gals) = Capacity of Filter Pack + Capacity of Casing =		3 Boreholes to Purge * 1 borehole volume ( ) =	Total Purge Volume (gals)

Capacity of Casing: 1" casing – 0.04 / 2" casing – 0.16 / 4" casing – 0.65 / 6" casing – 1.47 / 8" casing – 2.81 / 10" casing – 4.08 / 12" casing – 5.87 (gals/foot)
Capacity of Filter Pack (40% Porosity): 2" casing and 6" hole – 0.52 / 2" casing and 8" hole – 0.98 / 4" casing and 8" hole – 0.78 / 4" casing and 10" hole – 1.37 (gals/foot)

Groundwater Purge Data

Purge Equipment: Redi flo 2	Sampling Equipment: Disposable PVC Bailer / 2" Grundfos Pump	Pump Set @ 61.5 ft BGS

Depth to Water (ft)	Time (Military)	Purge Rate (gpm)	Volume Removed (gallons)	pH (Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp (C)	DO (mg/L)	ORP (mV)	Remarks
56.10	934		start		Purging					
	938	0.25	1	6.29	1.16	438	24.60	11.35	82	Dark Grey Color
	942	0.25	2	6.54	2.04	185	24.76	8.51	94	slightly Grey.
	946	0.25	3	6.66	2.11	200	25.44	7.61	91	slight Grey
	950	0.25	4	6.74	2.17	204	26.03	6.46	87	cloudy
	954	0.25	5	6.79	2.20	85.3	25.38	6.54	97	pretty clear
	958	0.25	6	6.80	2.15	77.9	25.42	6.01	100	Clear
	1002	0.25	7	6.82	2.09	104.0	25.79	5.03	103	clear
	1006	0.25	8	6.82	2.08	103.0	25.86	4.99	103	clear
	1010	0.25	9	6.82	2.06	94.8	25.84	4.89	104	clear
	1014	0.25	10	6.82	2.04	93.2	25.80	4.84	105	clear
	1020	Collect Samples								
56.22	1025									

Purging complete when 3 consecutive measurements (3 – 5 minutes apart) are within 10% of each other.

Collect sample after well has recovered to within 80% of Original Water Column Height or 2 hours after purging has stopped.

Sample ID (time): MW3-072705 (1020) Dup ID: ( ) QA/QC ID: ( )

Analytical Methods: 8260B, 524.2, 1,4-Dioxane Sampler: MMR
3 VOA's 1L Amber

PACCAR 03282

Groundwater Sampling Log

amec

Well Number: MW-5	Date: 1/27/05	Project: PACCAR Inc. –Trico Torrance	Project No.: 591M15628

Gauging Data from Top of Casing (Reference Point)

TOC Elevation (ft):	Climatic Conditions: Sunny / Hot	Gauging Time: 1045	Gauger's Initials: MMR
Depth to Water (ft): 55.55	Total Well Depth (ft, TWD): 64.70	Water Column Height (ft, H): 9.15	80% of Original Water Column Height (ft) = TWD–(H * 0.8) = 57.38

Development/Sample Purge Volume Calculations (low flow sampling excluded)

Borehole Diameter (in):	Casing Diameter (in): 4	Capacity of Filter Pack ( ) * H = gals	Capacity of Casing ( ) * H = gals
1 Borehole Volume (gals) = Capacity of Filter Pack + Capacity of Casing =		3 Boreholes to Purge * 1 borehole volume ( ) =	Total Purge Volume (gals)

Capacity of Casing: 1" casing – 0.04 / 2" casing – 0.16 / 4" casing – 0.65 / 6" casing – 1.47 / 8" casing – 2.81 / 10" casing – 4.08 / 12" casing – 5.87 (gals/foot)
Capacity of Filter Pack (40% Porosity): 2" casing and 6" hole – 0.52 / 2" casing and 8" hole – 0.98 / 4" casing and 8" hole – 0.78 / 4" casing and 10" hole – 1.37 (gals/foot)

Groundwater Purge Data

Purge Equipment: Rediflow	Sampling Equipment: Disposable PVC Bailer / 2" Grundfos Pump	Pump Set @ 62 ft BGS

Depth to Water (ft)	Time (Military)	Purge Rate (gpm)	Volume Retrieved (Gallons)	pH (Units)	Specific Conductivity (S/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)	Remarks
55.55	1115	Start	Purging							
	1120	0.20	6.86 →		1.91	143	26.40	19.99	39	light brown
55.91	1125	0.20	2	6.84	1.90	139	26.26	18.11	33	light brown
55.96	1130	0.20	3	6.71	1.85	67.1	26.14	10.81	39	cloudy
56.00	1135	0.20	4	6.53	1.92	39.0	27.07	6.66	53	clear / cloudy
56.03	1140	0.20	5	6.51	1.91	48.5	27.09	5.99	58	slightly clear
56.00	1145	0.20	6	6.50	1.89	63.2	27.16	5.26	60	clear
56.01	1150	0.20	7	6.48	1.89	64.9	27.21	5.23	62	clear
56.00	1155	0.20	8	6.49	1.87	63.6	27.19	4.88	65	clear.
56.01	1200	0.20	9	6.51	1.87	60.7	27.21	4.81	64	clear
56.01	1205	0.20	10	6.52	1.87	63.1.	27.27	4.77	64	clear
56.00	1205	collect	samples.							
	1210									

Purging complete when 3 consecutive measurements (3 – 5 minutes apart) are within 10% of each other.

Collect sample after well has recovered to within 80% of Original Water Column Height or 2 hours after purging has stopped.

Sample ID (time): MW-5-012705 (1205) Dup ID: _____ ( ) QA/QC ID: FB1-012705 (1145)

Analytical Methods: 8260, 584.2, 1,4-Dioxane – Sampler: MMR
3 VOAs 3 VOAs 1L Amber

PACCAR 03283

Groundwater Sampling Log

amec

Well Number: MW-4	Date: 07/27/05	Project: PACCAR Inc. –Trico Torrance	Project No.: 591M15628

Gauging Data from Top of Casing (Reference Point)

TOC Elevation (ft):	Climatic Conditions: Sunny / Hot	Gauging Time: 1335	Gauger's Initials: MMR
Depth to Water (ft): 55.10	Total Well Depth (ft, TWD): 64.50	Water Column Height (ft, H): 9.40	80% of Original Water Column Height (ft) = TWD–(H * 0.8) = 58.98

Development/Sample Purge Volume Calculations (low flow sampling excluded)

Borehole Diameter (in):	Casing Diameter (in): 2	Capacity of Filter Pack ( ) * H = gals	Capacity of Casing ( ) * H = gals
1 Borehole Volume (gals) = Capacity of Filter Pack + Capacity of Casing =		3 Boreholes to Purge * 1 borehole volume ( ) =	Total Purge Volume (gals)

Capacity of Casing: 1" casing – 0.04 / 2" casing – 0.16 / 4" casing – 0.65 / 6" casing – 1.47 / 8" casing – 2.81 / 10" casing – 4.08 / 12" casing – 5.87 (gals/foot)
Capacity of Filter Pack (40% Porosity): 2" casing and 6" hole – 0.52 / 2" casing and 8" hole – 0.98 / 4" casing and 8" hole – 0.78 / 4" casing and 10" hole – 1.37 (gals/foot)

Groundwater Purge Data

Purge Equipment: Rediflo 2	Sampling Equipment: Disposable PVC Bailer / (2" Grundfos Pump)	Pump Set @ 62 ft BGS

Depth to Water (ft)	Time (Military)	Purge Rate (gpm)	Volume Removed (gallons)	pH (units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Temp (°C)	DO (mg/L)	ORP (mV)	Remarks
55.10	1340	0.2	Start	Purging		Dark	Brown	Color.		
	1345	0.2	1	6.46	1.82	280.0	26.05	>19.99	94	light brown color
	1350	0.2	2	6.56	1.77	95.0	26.56	12.10	85	Cloudy
	1355	0.2	3	6.55	1.72	125.0	26.65	8.21	87	clear
	1400	0.2	4	6.55	1.69	220.0	26.63	7.20	88	Clear
	1405	0.2	5	6.58	1.69	221.0	26.72	6.78	86	clear
	1410	0.2	6	6.60	1.68	218.0	26.76	6.69	85	Clear
	1415	0.2	7	6.66	1.67	215.0	26.73	6.64	83	Clear
	1420	0.2	8	6.68	1.67	216.0	26.69	6.59	81	clear
	1425	0.2	9	6.70	1.67	211.0	26.68	6.51	79	Clear
56.00	1430	Collect		Samples						

Purging complete when 3 consecutive measurements (3 – 5 minutes apart) are within 10% of each other.

Collect sample after well has recovered to within 80% of Original Water Column Height or 2 hours after purging has stopped.

Sample ID (time): MW4-072705 (1430) Dup ID: _____ ( ) QA/QC ID: _____ ( )

Analytical Methods: 8260 (3 VOAs), 524.2 (3 VOAs), 4 1,4 Dioxane (1L Amber) Sampler: MMR

PACCAR 03284

Calscience Environmental Laboratories, Inc.

Supplemental Report 2

August 10, 2005

Stephanie Funke-Crary
AMEC - Anaheim
1290 N. Hancock Street, Suite 102
Anaheim, CA 92807-1986

Subject: **Calscience Work Order No.: 05-07-1724**
Client Reference: PACCAR / 591M152680

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/29/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Robert Stearns
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim
1290 N. Hancock Street, Suite 102
Anaheim, CA 92807-1986

Date Received:	07/29/05
Work Order No:	05-07-1724
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: PACCAR / 591M152680

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3-07.27.05	05-07-1724-1	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual
Acetone	ND	10	1	
Benzene	31	0.50	1	
Bromobenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1	
Bromodichloromethane	ND	1.0	1	
Bromoform	ND	1.0	1	
Bromomethane	ND	10	1	
2-Butanone	ND	10	1	
n-Butylbenzene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1	
Carbon Disulfide	ND	10	1	
Carbon Tetrachloride	ND	0.50	1	
Chlorobenzene	2.6	1.0	1	
Chloroethane	ND	1.0	1	
Chloroform	120	1	1	
Chloromethane	ND	10	1	
2-Chlorotoluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1	
1,2-Dibromoethane	ND	1.0	1	
Dibromomethane	ND	1.0	1	
1,2-Dichlorobenzene	2.9	1.0	1	
1,3-Dichlorobenzene	1.4	1.0	1	
1,4-Dichlorobenzene	1.6	1.0	1	
Dichlorodifluoromethane	ND	1.0	1	
1,1-Dichloroethane	22	1	1	
1,2-Dichloroethane	8.6	0.5	1	
1,1-Dichloroethene	92	1	1	
c-1,2-Dichloroethene	710	100	100	
t-1,2-Dichloroethene	2.8	1.0	1	
1,2-Dichloropropane	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1	
2,2-Dichloropropane	ND	1.0	1	
1,1-Dichloropropene	ND	1.0	1	

Parameter	Result	RL	DF	Qual
c-1,3-Dichloropropene	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1	
Ethylbenzene	ND	1.0	1	
2-Hexanone	ND	10	1	
Isopropylbenzene	ND	1.0	1	
p-Isopropyltoluene	ND	1.0	1	
Methylene Chloride	ND	10	1	
4-Methyl-2-Pentanone	ND	10	1	
Naphthalene	ND	10	1	
n-Propylbenzene	ND	1.0	1	
Styrene	ND	1.0	1	
1,1,1,2-Tetrachloroethane	ND	1.0	1	
1,1,2,2-Tetrachloroethane	ND	1.0	1	
Tetrachloroethene	6500	100	100	
Toluene	1.1	1.0	1	
1,2,3-Trichlorobenzene	1.8	1.0	1	
1,2,4-Trichlorobenzene	2.2	1.0	1	
1,1,1-Trichloroethane	ND	1.0	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,1,2-Trichloroethane	5.3	1.0	1	
Trichloroethene	18000	100	100	
Trichlorofluoromethane	ND	10	1	
1,2,3-Trichloropropane	ND	5.0	1	
1,2,4-Trimethylbenzene	1.8	1.0	1	
1,3,5-Trimethylbenzene	ND	1.0	1	
Vinyl Acetate	ND	10	1	
Vinyl Chloride	ND	0.50	1	
p/m-Xylene	4.0	1.0	1	
o-Xylene	2.2	1.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Tert-Butyl Alcohol (TBA)	ND	10	1	
Diisopropyl Ether (DIPE)	3.6	2.0	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Ethanol	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	109	74-140	
Toluene-d8	99	88-112	
1,2-Dichloroethane-d4	110	74-146	
1,4-Bromofluorobenzene	91	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 2 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-5-072705	05-07-1724-2	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	36	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	1.6	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	4.4	1.0	1		Tetrachloroethene	7100	100	100	
Chloroethane	ND	1.0	1		Toluene	1.5	1.0	1	
Chloroform	170	1	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	17	1	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	19000	100	100	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	3.5	1.0	1		1,2,4-Trimethylbenzene	1.6	1.0	1	
1,3-Dichlorobenzene	3.5	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	22	1	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	0.64	0.50	1	
1,1-Dichloroethane	42	1	1		p/m-Xylene	4.0	1.0	1	
1,2-Dichloroethane	36	0.50	1		o-Xylene	2.3	1.0	1	
1,1-Dichloroethene	69	1	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	1200	100	100		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	7.3	1.0	1		Diisopropyl Ether (DIPE)	3.4	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits
Dibromofluoromethane	110	74-140		1,2-Dichloroethane-d4	110	74-146
Toluene-d8	98	88-112		1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

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Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 3 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-4-072705	05-07-1724-3	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual
Acetone	ND	10	1	
Benzene	7.8	0.5	1	
Bromobenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1	
Bromodichloromethane	ND	1.0	1	
Bromoform	ND	1.0	1	
Bromomethane	ND	10	1	
2-Butanone	ND	10	1	
n-Butylbenzene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1	
Carbon Disulfide	ND	10	1	
Carbon Tetrachloride	ND	0.50	1	
Chlorobenzene	1.9	1.0	1	
Chloroethane	ND	1.0	1	
Chloroform	110	1	1	
Chloromethane	ND	10	1	
2-Chlorotoluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1	
1,2-Dibromoethane	ND	1.0	1	
Dibromomethane	ND	1.0	1	
1,2-Dichlorobenzene	1.1	1.0	1	
1,3-Dichlorobenzene	4.0	1.0	1	
1,4-Dichlorobenzene	1.7	1.0	1	
Dichlorodifluoromethane	ND	1.0	1	
1,1-Dichloroethane	29	1	1	
1,2-Dichloroethane	17	0.50	1	
1,1-Dichloroethene	32	1	1	
c-1,2-Dichloroethene	3400	100	100	
t-1,2-Dichloroethene	12	1	1	
1,2-Dichloropropane	ND	1.0	1	
1,3-Dichloropropane	ND	1.0	1	
2,2-Dichloropropane	ND	1.0	1	
1,1-Dichloropropene	ND	1.0	1	

Parameter	Result	RL	DF	Qual
c-1,3-Dichloropropene	ND	0.50	1	
t-1,3-Dichloropropene	ND	0.50	1	
Ethylbenzene	ND	1.0	1	
2-Hexanone	ND	10	1	
Isopropylbenzene	ND	1.0	1	
p-Isopropyltoluene	ND	1.0	1	
Methylene Chloride	ND	10	1	
4-Methyl-2-Pentanone	ND	10	1	
Naphthalene	ND	10	1	
n-Propylbenzene	ND	1.0	1	
Styrene	ND	1.0	1	
1,1,1,2-Tetrachloroethane	1.1	1.0	1	
1,1,2,2-Tetrachloroethane	ND	1.0	1	
Tetrachloroethene	4300	100	100	
Toluene	ND	1.0	1	
1,2,3-Trichlorobenzene	ND	1.0	1	
1,2,4-Trichlorobenzene	ND	1.0	1	
1,1,1-Trichloroethane	ND	1.0	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
1,1,2-Trichloroethane	7.9	1.0	1	
Trichloroethene	7600	100	100	
Trichlorofluoromethane	ND	10	1	
1,2,3-Trichloropropane	ND	5.0	1	
1,2,4-Trimethylbenzene	1.8	1.0	1	
1,3,5-Trimethylbenzene	ND	1.0	1	
Vinyl Acetate	ND	10	1	
Vinyl Chloride	2.3	0.5	1	
p/m-Xylene	3.6	1.0	1	
o-Xylene	2.0	1.0	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
Tert-Butyl Alcohol (TBA)	ND	10	1	
Diisopropyl Ether (DIPE)	2.2	2.0	1	
Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
Ethanol	ND	100	1	

Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140	
Toluene-d8	100	88-112	

Surrogates:	REC (%)	Control Limits
1,2-Dichloroethane-d4	112	74-146
1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 4 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-7-072705	05-07-1724-4	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	3.4	0.5	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	390	20	20	
Chloroethane	2.0	1.0	1		Toluene	ND	1.0	1	
Chloroform	8.6	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	280	20	20	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	1.1	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	1300	20	20	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	2.8	1.0	1		1,2,4-Trimethylbenzene	1.8	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	4.5	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	29	0.50	1	
1,1-Dichloroethane	1900	20	20		p/m-Xylene	3.3	1.0	1	
1,2-Dichloroethane	2.8	0.5	1		o-Xylene	3.0	1.0	1	
1,1-Dichloroethene	900	20	20		Methyl-t-Butyl Ether (MTBE)	7.7	1.0	1	
c-1,2-Dichloroethene	150	1	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	110	74-146
Toluene-d8	102	88-112		1,4-Bromofluorobenzene	92	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 5 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-6-072805	05-07-1724-5	07/28/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	17	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	2200	100	100	
Chloroethane	ND	1.0	1		Toluene	1.5	1.0	1	
Chloroform	80	1	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	7.6	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	2.2	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	9000	100	100	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	3.9	1.0	1		1,2,4-Trimethylbenzene	1.3	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	2.5	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	51	1	1		p/m-Xylene	5.5	1.0	1	
1,2-Dichloroethane	4.0	0.5	1		o-Xylene	3.5	1.0	1	
1,1-Dichloroethene	87	1	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	280	100	100		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	5.0	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l
Dibromofluoromethane	111	74-140		1,2-Dichloroethane-d4	111	74-146
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	92	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim
1290 N. Hancock Street, Suite 102
Anaheim, CA 92807-1986

Date Received:	07/29/05
Work Order No:	05-07-1724
Preparation:	EPA 5030B
Method:	EPA 8260B
Units:	ug/L

Project: PACCAR / 591M152680

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Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-8-072805	05-07-1724-6	07/28/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	3.0	0.5	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	530	20	20	
Chloroethane	ND	1.0	1		Toluene	1.0	1.0	1	
Chloroform	18	1	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	4.7	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	1900	20	20	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	2.2	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	25	1	1		p/m-Xylene	4.6	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	2.7	1.0	1	
1,1-Dichloroethene	51	1	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	73	1	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	110	74-146
Toluene-d8	101	88-112		1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 7 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
FB1-072705	05-07-1724-7	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	108	74-146
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	92	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 8 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-072705	05-07-1724-8	07/27/05	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits
Dibromofluoromethane	111	74-140		1,2-Dichloroethane-d4	112	74-146
Toluene-d8	99	88-112		1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 9 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-006-15,182	N/A	Aqueous	08/01/05	08/01/05	050801L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control l
Dibromofluoromethane	105	74-140		1,2-Dichloroethane-d4	105	74-146
Toluene-d8	100	88-112		1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L
Project: PACCAR / 591M152680			Page 10 of 10

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	099-10-006-15,211	N/A	Aqueous	08/02/05	08/03/05	050802L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	10	1		c-1,3-Dichloropropene	ND	0.50	1	
Benzene	ND	0.50	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromobenzene	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		2-Hexanone	ND	10	1	
Bromodichloromethane	ND	1.0	1		Isopropylbenzene	ND	1.0	1	
Bromoform	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
Bromomethane	ND	10	1		Methylene Chloride	ND	10	1	
2-Butanone	ND	10	1		4-Methyl-2-Pentanone	ND	10	1	
n-Butylbenzene	ND	1.0	1		Naphthalene	ND	10	1	
sec-Butylbenzene	ND	1.0	1		n-Propylbenzene	ND	1.0	1	
tert-Butylbenzene	ND	1.0	1		Styrene	ND	1.0	1	
Carbon Disulfide	ND	10	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Carbon Tetrachloride	ND	0.50	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Tetrachloroethene	ND	1.0	1	
Chloroethane	ND	1.0	1		Toluene	ND	1.0	1	
Chloroform	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Chloromethane	ND	10	1		1,2,4-Trichlorobenzene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		1,1,1-Trichloroethane	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromochloromethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		Trichloroethene	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
1,2-Dichlorobenzene	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,4-Dichlorobenzene	ND	1.0	1		Vinyl Acetate	ND	10	1	
Dichlorodifluoromethane	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
1,1-Dichloroethane	ND	1.0	1		p/m-Xylene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		o-Xylene	ND	1.0	1	
1,1-Dichloroethene	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
c-1,2-Dichloroethene	ND	1.0	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
t-1,2-Dichloroethene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
1,2-Dichloropropane	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
1,3-Dichloropropane	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
2,2-Dichloropropane	ND	1.0	1		Ethanol	ND	100	1	
1,1-Dichloropropene	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits
Dibromofluoromethane	104	74-140		1,2-Dichloroethane-d4	106	74-146
Toluene-d8	99	88-112		1,4-Bromofluorobenzene	93	74-110

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

AMEC - Anaheim
1290 N. Hancock Street, Suite 102
Anaheim, CA 92807-1986

Date Received: 07/29/05
Work Order No: 05-07-1724
Preparation: EPA 5030B
Method: SRL 524M-TCP
Units: ug/L

Project: PACCAR / 591M152680

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
MW-3-072705	05-07-1724-1	07/27/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.50	100		1,4-Dioxane	ND	200	100	

MW-5-072705	05-07-1724-2	07/27/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.50	100		1,4-Dioxane	ND	200	100	

MW-4-072705	05-07-1724-3	07/27/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.50	100		1,4-Dioxane	ND	200	100	

MW-7-072705	05-07-1724-4	07/27/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.050	10		1,4-Dioxane	ND	20	10	

MW-6-072805	05-07-1724-5	07/28/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.50	100		1,4-Dioxane	ND	200	100	

MW-8-072805	05-07-1724-6	07/28/05	Aqueous	08/03/05	08/03/05	050803L01

Comment(s): -The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.050	10		1,4-Dioxane	ND	20	10	

Method Blank	099-12-036-5	N/A	Aqueous	08/03/05	08/03/05	050803L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
1,2,3-Trichloropropane	ND	0.0050	1		1,4-Dioxane	ND	2.0	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-07-1656-7	Aqueous	GC/MS EE	08/01/05	08/01/05	050801S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	106	101	88-118	4	0-7	
Carbon Tetrachloride	75	75	67-145	0	0-11	
Chlorobenzene	103	100	88-118	3	0-7	
1,2-Dichlorobenzene	100	100	86-116	0	0-8	
1,1-Dichloroethene	114	108	70-130	5	0-25	
Toluene	104	100	87-123	4	0-8	
Trichloroethene	106	101	79-127	4	0-10	
Vinyl Chloride	111	111	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	92	90	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	91	82	36-168	11	0-45	
Diisopropyl Ether (DIPE)	97	96	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	88	87	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	88	86	72-126	3	0-12	
Ethanol	101	88	53-149	14	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-08-0119-3	Aqueous	GC/MS EE	08/02/05	08/03/05	050802S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	93	88	88-118	6	0-7	
Carbon Tetrachloride	96	94	67-145	2	0-11	
Chlorobenzene	91	90	88-118	1	0-7	
1,2-Dichlorobenzene	95	92	86-116	3	0-8	
1,1-Dichloroethene	91	87	70-130	5	0-25	
Toluene	95	90	87-123	5	0-8	
Trichloroethene	95	90	79-127	5	0-10	
Vinyl Chloride	94	92	69-129	2	0-13	
Methyl-t-Butyl Ether (MTBE)	92	90	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	82	87	36-168	6	0-45	
Diisopropyl Ether (DIPE)	94	91	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	90	88	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	93	72-126	4	0-12	
Ethanol	91	93	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

AMEC - Anaheim		Date Received:	07/29/05
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-08-0154-1	Aqueous	GC/MS L	08/03/05	08/03/05	050803S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	109	113	80-120	4	0-20	
1,4-Dioxane	105	109	80-120	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC - Anaheim		Date Received:	N/A
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-15,182	Aqueous	GC/MS EE	08/01/05	08/01/05	050801L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	103	84-120	0	0-8	
Carbon Tetrachloride	75	77	63-147	3	0-10	
Chlorobenzene	101	101	89-119	1	0-7	
1,2-Dichlorobenzene	102	99	89-119	3	0-9	
1,1-Dichloroethene	108	109	77-125	2	0-16	
Toluene	103	101	83-125	2	0-9	
Trichloroethene	104	102	89-119	2	0-8	
Vinyl Chloride	111	111	63-135	0	0-13	
Methyl-t-Butyl Ether (MTBE)	90	91	82-118	1	0-13	
Tert-Butyl Alcohol (TBA)	64	74	46-154	15	0-32	
Diisopropyl Ether (DIPE)	97	97	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	88	88	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	87	87	76-124	0	0-10	
Ethanol	88	93	60-138	5	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC - Anaheim		Date Received:	N/A
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-15,211	Aqueous	GC/MS EE	08/02/05	08/02/05	050802L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	95	84-120	2	0-8	
Carbon Tetrachloride	103	105	63-147	2	0-10	
Chlorobenzene	98	95	89-119	2	0-7	
1,2-Dichlorobenzene	99	98	89-119	0	0-9	
1,1-Dichloroethene	101	98	77-125	2	0-16	
Toluene	100	97	83-125	3	0-9	
Trichloroethene	101	100	89-119	1	0-8	
Vinyl Chloride	109	105	63-135	4	0-13	
Methyl-t-Butyl Ether (MTBE)	93	95	82-118	2	0-13	
Tert-Butyl Alcohol (TBA)	93	104	46-154	12	0-32	
Diisopropyl Ether (DIPE)	97	98	81-123	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	93	95	74-122	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	99	76-124	1	0-10	
Ethanol	89	91	60-138	2	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

AMEC - Anaheim		Date Received:	N/A
1290 N. Hancock Street, Suite 102		Work Order No:	05-07-1724
Anaheim, CA 92807-1986		Preparation:	EPA 5030B
		Method:	SRL 524M-TCP

Project: PACCAR / 591M152680

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-036-5	Aqueous	GC/MS L	08/03/05	08/03/05	050803L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,2,3-Trichloropropane	117	114	80-120	3	0-20	
1,4-Dioxane	100	100	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 7/29/05

Page 1 of 1

LABORATORY CLIENT: AMEC

ADDRESS: 1290 N Hancock St, Ste 102

CITY: ANAHEIM STATE: CA ZIP: 92807

TEL: 714-779-2591 FAX: 714-779-8377 E-MAIL: stephanie.funke-crary@amec.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:
→ Trip Blank & Temperature blank are included
→ The DI water sample was collected for QA/QC

CLIENT PROJECT NAME / NUMBER: PACCAR / 561M156280

PROJECT CONTACT: Stephanie / Mahesh

SAMPLER(S): (SIGNATURE)

COELT LOG CODE

P.O. NO.:

LAB USE ONLY: 07-7724

COOLER RECEIPT TEMP = °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	SRL 524M-TCP	C1,4-dioxane and 1,2,3-Trichlorobenzene		
1	MW-3-072705		7/27/05	1020	water	7					X									X			
2	MW-5-072705		↓	1205	↓	7					X									X			
3	MW-4-072705		↓	1430	↓	7					X									X			
4	MW-7-072705		↓	1620	↓	7					X									X			
5	MW-6-072805		7/28/05	0955	↓	7					X									X			
6	MW-8-072805		7/28/05	1125	↓	7					X									X			
7	FB1-072705		7/27/05		↓	3					X												
8	EB1-072705		7/27/05	0900	↓	3					X												
9	EB2-072805		7/28/05	0840	↓	3					X	→ HOLD UNTIL AMEC'S APPROVAL											
10	DI-072705		7/27/05	0905	water	3 →					X	→ FOR QA/QC											

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
7/29/05 1000	CEL	7/29/5	955
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	CEL	7/29/5	1245

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10/20/04 Revision

Q&Q Graphic 714-898-9702

Bob Stearns

From: Maheshwar Mettu [maheshwar.mettu@amec.com]
Sent: Wednesday, August 10, 2005 8:31 AM
To: Bob Stearns
Subject: PACCAR

Bob-
The PACCAR project number on the report is **561M156280** on the analytical report (work order 05-07-1724). Please change **561M156280 to 591M152680** in your records . (I gave the wrong proj. no. on COC.)

Thanks much,
Mahesh

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05- 07-1724

1724

amec

FAX

To: Christina
From: Mahesh
Company: Calscience
Phone: 714-779-2591
Fax: 714.894.7501

Cc:
Date: 8/10/05
Job No.: PACCAR/591M152680
Fax Pages: 2 (including this page)

Subject: Title Editing.

Christina,

please Edit the ~~[illegible]~~ Title on the lab analytical report from PACCAR/516M152680 to PACCAR/591M152680.

please email the doc. @ the earliest.

Thanks much.

Mahesh

AMEC Earth & Environmental, Inc.
1290 N. Hancock Street, Suite 102
Anaheim, California 92807
Tel +1 714-779-2591
Fax+1 714-779-8377
www.amec.com

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 7/29/05
Page 1 of 1

LABORATORY CLIENT: AMEC
ADDRESS: 1290 N Hancock St, Ste 102
CITY: ANAHEIM STATE: CA ZIP: 92807
TEL: 714-779-2591 FAX: 714-779-8377 E-MAIL: stephanie.funke-crary@amec.com

CLIENT PROJECT NAME / NUMBER: PACCAR/561M156280
PROJECT CONTACT: Stephanie/Mahesh
SAMPLER(S): (SIGNATURE) [signature]
COELT LOG CODE ☐☐☐☐
P.O. NO.:
LAB USE ONLY: 07-1724
COOLER RECEIPT TEMP = °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:
→ Trip Blank & Temperature blank are included
→ The DI water sample was collected for QA/QC

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	SRL 524M-TCP	(1,4-dioxane and 1,2,3-trichloropropane)			
1	MW-3-072705		7/27/05	1020	Water	7					X									X				
2	MW-5-072705		↓	1205	↓	7					X									X				
3	MW-4-072705		↓	1430	↓	7					X									X				
4	MW-7-072705		↓	1620	↓	7					X									X				
5	MW-6-072805		7/28/05	0955	↓	7					X									X				
6	MW-8-072805		7/28/05	1125	↓	7					X									X				
7	FB1-072705		7/27/05		↓	3					X													
8	EB1-072705		7/27/05	0900	↓	3					X													
9	EB2-072805		7/28/05	0840	↓	3					X	→ HOLD UNTIL AMEC'S APPROVAL												
10	DI-072705		7/27/05	0905	↓	3 →					X	→ FOR QA/QC												

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature] 7/29/05 1000	[signature] CEL	7/29/5	9:55
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) [signature]	Received for Laboratory by: (Signature) [signature] CEL	7/29/5	1245

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Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

10/20/04

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 0 7 - 1 7 2 4

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: AMEC DATE: 07/29/05

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ____ Ambient temperature.

4-0 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: Tu

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: Tu

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: Tu

COMMENTS:

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-07-1724

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX: (714) 894-7501

SCS ENGINEERS

J. Dunavant
sent 4-5-5

REVISED REPORT FOR PRELIMINARY SITE INVESTIGATION AT THE TRICO INDUSTRIES FACILITY, 19706 NORMANDIE AVENUE TORRANCE, CALIFORNIA

Prepared for:

TRICO
15707 South Main Street
Gardena, California 90247

Prepared by:

SCS Engineers
4014 Long Beach Boulevard
Long Beach, California 90807
(213) 426-9544

November 1987

File No. 18719

DISCLAIMER

This report has been specifically prepared for Trico Industries, Incorporated with specific application to hazardous waste site investigations. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

INTRODUCTION

On April 27, 1987 SCS Engineers was retained by Trico Industries, Incorporated to conduct a preliminary site investigation on a proposed subdivided portion of their property located at 19706 Normandie Avenue, Torrance, California (Figure 1). The proposed subdivided parcel encompasses an area of approximately 118,000 square feet. The purpose of this investigation was to determine the presence of hazardous waste contamination, if any, at two locations on or near the property boundary. The investigation included the retrieval and analysis of soil samples from two exploratory borings.

A preliminary site reconnaissance survey was conducted on May 10, 1987. Based on the visual inspection of the property and information provided to SCS by facility personnel, two areas of potential concern were identified. The two on-site locations are the former vehicle maintenance facility and the area where a 500 gallon underground tank and fueling island were located. The underground tank and appurtenant equipment were removed from the property in January 1987. The locations of the former vehicle maintenance shop and underground tank equipment are shown in Figure 2.

The Trico Industries Torrance facility manufactures well completion equipment for the oil well industry. The plant was constructed in various phases between the 1930's and 1983, and has always been used for this type of manufacturing. Originally, the site contained only the office buildings located at the west end of the property, with the manufacturing buildings being added later.

According to facility personnel, hazardous materials currently used on-site are paints, paint thinner, and various types of lubricating and hydraulic oils.

REGIONAL GEOLOGY

The Trico Industries Torrance site is situated at an approximate elevation of 50 feet above mean sea level. The site is located on the late Pleistocene age sediments of the Lakewood formation. The Lakewood formation is composed of generally fine to medium grained sands which were deposited as alluvium. The sediments contain much fine grained material which was deposited in a flood plain environment.

The Torrance site is located in the West Coast Basin of the Los Angeles Central Basin. The uppermost ground water in

PACCAR 03311

this area is found in the Gage aquifer, which is considered an important, high producing aquifer. The top of the Gage aquifer is located approximately 100 feet below grade in the vicinity of the Torrance facility.

ON-SITE INVESTIGATION

The on-site investigation was conducted on May 12, 1987. Drilling was performed by H-F Drilling utilizing a Mobile B-61 drilling rig mounted with a 7.5 inch hollow stem auger. Soil samples were retrieved using a modified California Sampler driven into the soil by a weighted slide hammer. As shown in Figure 2, two exploratory borings were drilled on-site to a depth of 20 feet. Samples were retrieved at depths 5, 10, 15, and 20 feet in each boring. Geologic logs for each boring are provided in Appendix A.

A total of eight soil samples were retrieved from the site during drilling. Each sample was retrieved by placing six 3-inch stainless steel sleeves inside the California Sampler before it was driven into the soil. Each time the sampler was retrieved, the most representative bottom sample sleeve was removed, logged by our on-site geologist, covered with aluminum foil, sealed on both ends with tight-fitting plastic end caps, and secured with electrical tape.

MATERIAL AND METHODS

Each soil sample was identified with a sample number, and placed in a refrigerated cooler for transport to the SCS Analytical Laboratory. Chain-of-custody forms were appropriately completed by our field geologist and laboratory personnel to ensure proper and accurate sample tracking/analysis in the laboratory. Upon arrival at the SCS Laboratory, all samples were placed in a freezer at -10°C.

Soil samples from each boring were selectively analyzed as shown in the following table.

SOIL SAMPLING LOCATIONS AND ANALYTICAL PARAMETERS

Sample I.D.	Location	Analytical Parameters
BH-1	Former U/G Tank	BTX and TRPH*
BH-2	Vehicle maintenance	EPA 8010/8020

* BTX = benzene, toluene, and xylene
TRPH = total recoverable petroleum hydrocarbons

The BTX and TRPH analyses are used to determine the presence of any fuel-related constituents and total petroleum-based hydrocarbons in the soil. EPA Methods 8010 and 8020 are gas chromatographic analyses used to detect the presence of halogenated aliphatic and aromatic solvents in a soil or solid matrix.

RESULTS

The soil samples analyzed from boring BH-1 located near the former underground fuel storage tank did not contain any detectable levels of BTX or TRPH (detection limits of 0.01 and 1 part per million, respectively).

Samples analyzed from boring BH-2 contain relatively low levels (less than 30 ppb) of various solvent-related constituents, however, we do not feel that these levels represent anything especially significant. The 5-foot sample showed toluene at a concentration 128 ppb. The origin of the toluene is uncertain, but could be a remnant constituent of small amounts of petroleum related compounds which may have been released into the soil during previous maintenance activities.

CONCLUSIONS

Analysis of samples from boring BH-1 in the former underground storage tank area do not indicate or suggest that soils are contaminated with gasoline or any other fuel-related constituents.

The soil samples from BH-2 also showed low levels of solvent constituents, as well as 128 ppb toluene (a petroleum related constituent). This area was used for the servicing of vehicles, and is highly oil stained on the surface. The soil contamination is probably the result of vehicle servicing and possibly the spilling or indiscriminate disposal of oils and/or degreasing solvents.

In summary, based on the limited data generated as a result of this preliminary site investigation, we do not feel that there are any significant problems associated with hazardous constituents near the former underground tank area or vehicle maintenance facility.

RECOMMENDATIONS

Based on the results of our limited preliminary site investigation work, we do not feel that there are any significant concentrations of contaminants in subsurface soils at these two locations. Therefore, no further site investigation work in these areas is recommended.

PACCAR 03314

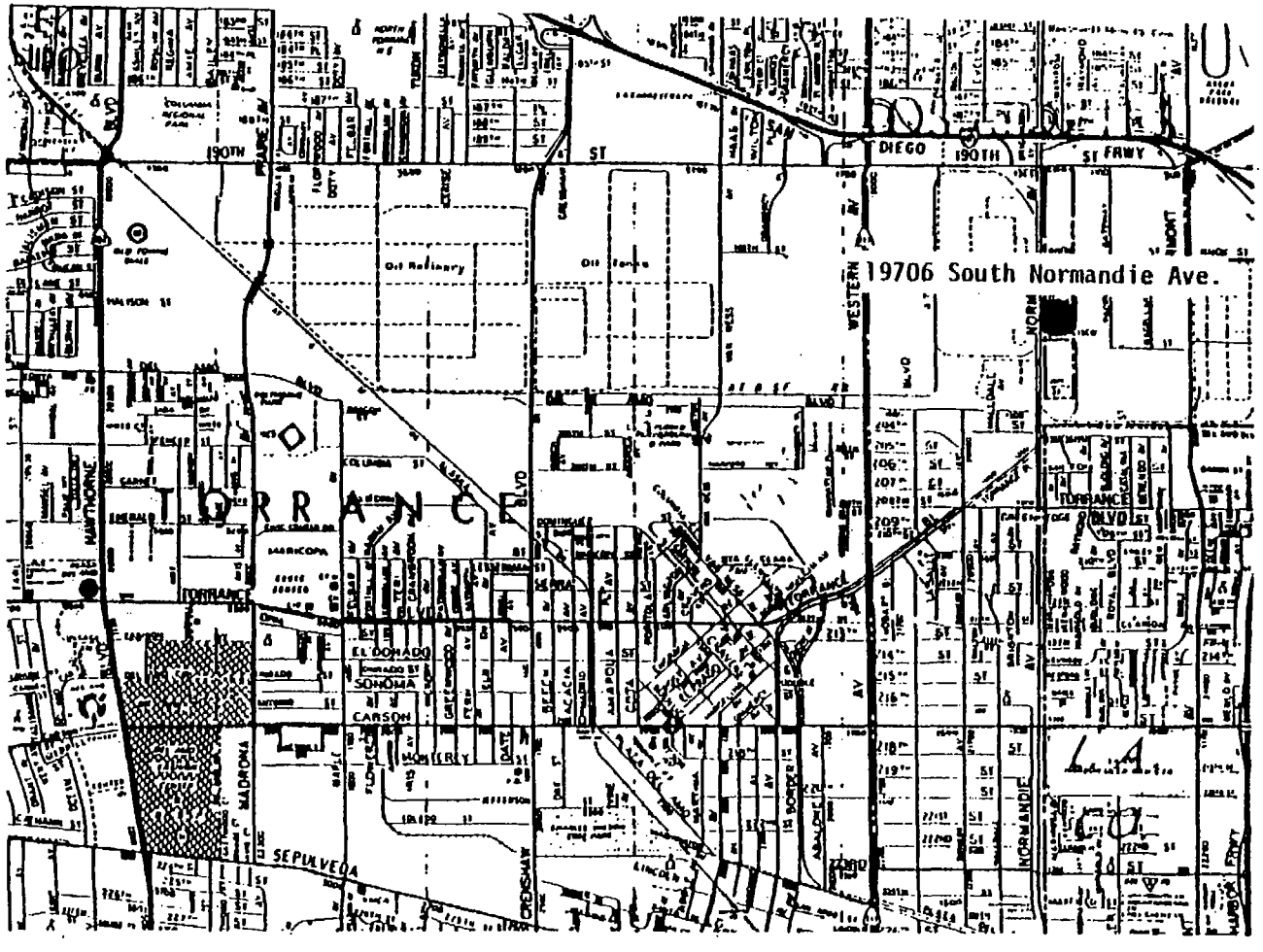

Figure 1.

Location of Trico Industries Torrance facility, 19706 South Normandie Avenue, Torrance, California.

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

PACCAR 03315

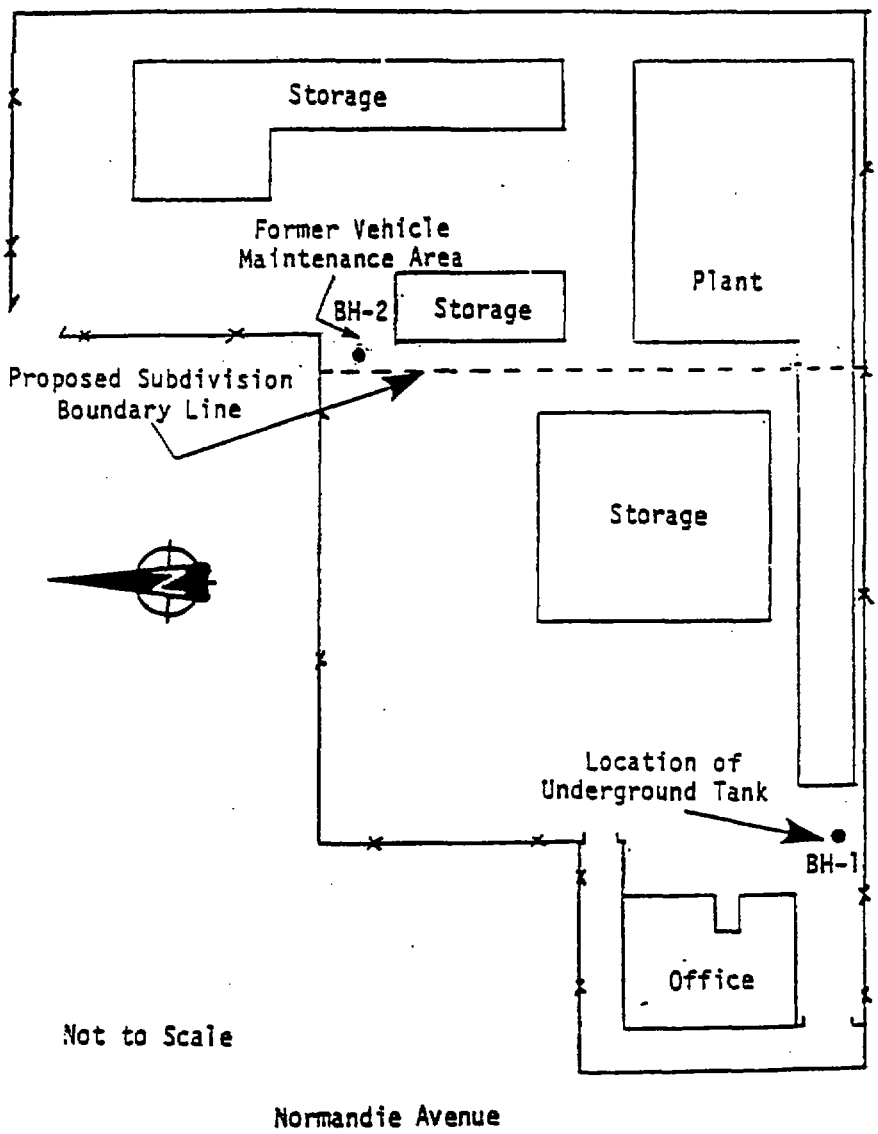

Figure 2

Location of exploratory borings at the Trico Industries facility, 19706 South Normandie Avenue, Torrance, California.

SCS ENGINEERS

PACCAR 03316

APPENDIX A

GEOLOGIC BORING LOGS

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807-2587
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D					2" of asphalt underlain by a light brown sandy clay with gravel - fill material	
BH1-5		5	CL		brown silty clay, no fines, moist, stiff, no odor.	
BH1-10		10	CL		light brown clay, no fines, moist, moist, hard, no odor.	
BH1-15		15	CL		light brown silty sand, few fines, dry, very stiff, contains root holes, no odor.	
BH1-20		20	CL		light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
		25			Total Depth 20'	
		30				
		35				

SCS ENGINEERS
Long Beach
California
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M — D — O (RC)
Sample I.D.						2" of asphalt underlain by a dark brown to black silty clay	
BH2-5			5	CL	■	green brown slightly sandy clay, stained for 6", fine grains, moist, very stiff, slight odor.	
BH2-10			10	CL	■	light brown silty clay, slightly mottled, few fines, moist, very stiff, contains root holes, no odor.	
BH2-15			15	CL	■	light brown silty clay, few fines, dry, very stiff, no odor.	
BH2-20			20	CL	■	light brown silty clay, few fines, dry, very stiff, no odor, contains root holes.	
						Total Depth at 20 ft.	
			25				
			30				
			35				

APPENDIX B

ANALYTICAL DATA FOR SOIL SAMPLES

SCS ENGINEERS ANALYTICAL LABORATORY
4014 Long Beach Boulevard
Long Beach, CA 90807
(213) 494-2828

MEMO
To: Greg Helland

From: Curtis Jenkins — June 3, 1987

Job No.: 18719 — Page 1 of 1

LABORATORY REPORT

Samples: Fourteen (14) soil samples from Trico, Normandy, Torrance, received 5/12/87.

Sample I.D.	Benzene	Toluene	Xylenes	TRPH
	mg/kg			
BH1-10	<0.01	<0.01	<0.01	<1
BH1-15	<0.01	<0.01	<0.01	<1

EPA 8010 and 8020 - see attached; separate sheet per sample.

TRPH - Total Recoverable Petroleum Hydrocarbons
D - Diesel

David Sincerbeaux
Chemist

Curtis B. Jenkins
Laboratory Director

---

tricol.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH2-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH 2-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	128	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH_2-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	11	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	13	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

tricol1.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH2-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	23	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	8	5
1,1,1-trichloroethane	20	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico10.rep16

cc: J. Bienavent
4-5-5

REPORT FOR PRELIMINARY SITE INVESTIGATION AT THE TRICO INDUSTRIES FACILITY, 19706 NORMANDIE AVENUE TORRANCE, CALIFORNIA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

PACCAR 03326

REPORT FOR PRELIMINARY SITE INVESTIGATION AT THE TRICO INDUSTRIES FACILITY, 19706 NORMANDIE AVENUE TORRANCE, CALIFORNIA

Prepared for:

TRICO
15707 South Main Street
Gardena, California 90247

Prepared by:

SCS Engineers
4014 Long Beach Boulevard
Long Beach, California 90807
(213) 426-9544

June 12, 1987

File No. 18719

DISCLAIMER

This report has been specifically prepared for Trico Industries, Incorporated with specific application to hazardous waste site investigations. The report has been prepared in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

INTRODUCTION

On April 27, 1987 SCS Engineers was contracted by Trico Industries, Incorporated to conduct a preliminary site investigation at their facility located at 19706 Normandie Avenue, Torrance, California (Figure 1). The purpose of this investigation was to determine the presence of hazardous waste contamination, if any, on the facility. The investigation included the retrieval and analysis of soil samples from six exploratory borings.

The Trico Industries Torrance facility manufactures well completion equipment for the oil well industry. The plant was constructed in 1952, and has always been used for this type of manufacturing. Originally, the site contained only the office buildings located at the west end of the property, with the manufacturing buildings being added later.

The plant at one time had a cesspool behind the main manufacturing building. The cesspool was apparently installed in 1968, and was abandoned around 1974-75. Early in 1987, it was filled in and covered with asphalt. Reportedly, the cesspool was for sewage, but oil and solvents were disposed of in there as well. Information on the types and volumes of oil and solvent which were disposed of was not available.

According to facility personnel, hazardous materials currently used on-site are paints, paint thinner, and various types of lubricating and hydraulic oils.

REGIONAL GEOLOGY

The Trico Industries Torrance site is situated at an approximate elevation of 50 feet above mean sea level. The site is located on the late Pleistocene age sediments of the Lakewood formation. The Lakewood formation is composed of generally fine to medium grained sands which were deposited as alluvium. The sediments contain much fine grained material which was deposited in a flood plain environment.

The Torrance site is located in the West Coast Basin of the Los Angeles Central Basin. The uppermost ground water in this area is found in the Gage aquifer, which is considered an important, high producing aquifer. The top of the Gage aquifer is located approximately 100 feet below grade in the vicinity of the Torrance facility.

ON-SITE INVESTIGATION

The on-site investigation was conducted on May 12, 1987. Drilling was performed by H-F Drilling utilizing a Mobile B-61 drilling rig mounted with a 7.5 inch hollow stem auger. Soil samples were retrieved using a modified California Sampler driven into the soil by a weighted slide hammer. As shown in Figure 2, six exploratory borings were drilled on-site to a depth of 20 feet. Samples were retrieved at depths 5, 10, 15, and 20 feet in each boring with the exception of BH-6. Samples from BH-6 were retrieved at depths 5, 10, 15, 20, 30, 40, 50, and 60 feet. Geologic logs for each boring are provided in Appendix A.

A total of 28 soil samples were retrieved from the site during drilling. Each sample was retrieved by placing six 3-inch stainless steel sleeves inside the California Sampler before it was driven into the soil. Each time the sampler was retrieved, the most representative bottom sample sleeve was removed, logged by our on-site geologist, covered with aluminum foil, sealed on both ends with tight-fitting plastic end caps, and secured with electrical tape.

MATERIAL AND METHODS

Each soil sample was identified with a sample number, and placed in a refrigerated cooler for transport to the SCS Analytical Laboratory. Chain-of-custody forms were appropriately completed by our field geologist and laboratory personnel to ensure proper and accurate sample tracking/analysis in the laboratory. Upon arrival at the SCS Laboratory, all samples were placed in a freezer at -10°C.

Soil samples from each boring were selectively analyzed as shown in the following table.

SOIL SAMPLING LOCATIONS AND ANALYTICAL PARAMETERS

Sample I.D.	Location	Analytical Parameters
BH-1	Former U/G Tank	BTX and TRPH*
BH-2	Solvent storage	EPA 8010/8020
BH-3	Steam cleaning area	EPA 8010/8020
BH-4	Steam cleaning area	EPA 8010/8020
BH-5	Vehicle maintenance	EPA 8010/8020
BH-6	Cesspool area	EPA 8010/TRPH

* BTX = benzene, toluene, and xylene
  TRPH = total recoverable petroleum hydrocarbons

The BTX and TRPH analyses are used to determine the presence of any fuel-related constituents and total petroleum-based hydrocarbons in the soil. EPA Methods 8010 and 8020 are gas chromatographic analyses used to detect the presence of halogenated aliphatic and aromatic solvents in a soil or solid matrix.

SITE GEOLOGY

The subsurface soils at the Trico Industries Torrance facility consist initially of dark brown to brown sandy to silty clay. This generally grades down to a light brown silty sand, except in BH-2 where a thin (six inch) layer at the 5-foot level was a grey green color. Below 20 feet, the soils in BH-6 (the only boring drilled deeper than 20 feet) graded to a brown, well graded sand. Between 40 to 48 feet this sand is stained black, and has a strong odor. Below this stained layer is a grey brown silty clay which is mottled, and has a slight odor. At 60 feet begins a layer of fine grained brown sand. The boring was drilled to a total depth of 60 feet. Ground water was not encountered in any of the exploratory borings.

RESULTS

The soil samples analyzed from boring BH-1 located near the former underground fuel storage tank did not contain any detectable levels of BTX or TRPH (detection limits of 0.01 and 1 part per million, respectively).

Soil samples taken from the area where the paint solvents are stored contain relatively low levels (less than 20 parts per billion [ppb]) of solvent-related contaminants at the 5-foot level. The 10-foot sample contains a slightly elevated level (296 ppb) of methylene chloride.

Samples analyzed from borings BH-3, BH-4, and BH-5 all contain relatively low levels (less than 30 ppb) of various solvent-related constituents, however, we do not feel that these levels represent anything especially significant. Borings BH-4 and BH-5 both contained toluene in the 5-foot samples at concentrations of 89 and 128 ppb, respectively. The origin of the toluene is uncertain, but could be a remnant constituent of small amounts of petroleum related compounds which may have been released into the soil.

Samples analyzed from boring BH-6 (near the former cesspool) contain relatively low levels of tetrachloroethane and 1,1,1-trichloroethane (TCA) in the 10- and 20-foot samples. The 40-foot sample, which was where the soils were highly stained, contains 17,600 ppb of 1,2-dichloroethane (DCA), 3070 ppb of tetrachloroethane, and 1477 parts per million (ppm) of diesel fuel. The sample at 60 feet showed reduced levels, but still contained 62 ppb of 1,2-DCA, 122 ppb of tetrachloroethane, and 117 ppb of methylene chloride. The analytical data of soil samples is provided in Appendix B.

CONCLUSIONS

Analysis of samples from boring BH-1 in the former underground storage tank area do not indicate or suggest that soils are contaminated with gasoline or any other fuel-related constituents.

The samples from the boring by the solvent storage area showed relatively low levels of solvent related constituents, which could possibly be the result of small amounts of spillage allowing the solvents to seep into the soils.

Borings BH-3 and BH-4 were located in an area where steam cleaning formerly was done. The low levels of contamination could possibly be the result of this steam cleaning process which may have washed solvents and fuel related constituents through cracks in the asphalt. A small separator sump for the steam cleaning is located in the vicinity of these two borings, and could also be a possible source of the low levels of contamination that were detected in this area.

The soil samples from BH-5 also showed low levels of solvent constituents, as well as 128 ppb toluene (a petroleum related constituent). This area was used for the servicing of vehicles, and is highly oil stained on the surface. The soil contamination is probably the result of the vehicle servicing and possibly the spilling or indiscriminate disposal of oils and/or degreasing solvents.

Boring BH-6 was placed as close as possible to the former cesspool in order to determine if any contamination occurred from the disposal of oil and solvents in the cesspool. The samples from the 10- and 20-foot depths showed low levels (less than 100 ppb) of contamination from solvents. The 40-foot sample, however, contains high levels of both chlorinated solvents and diesel fuel. The highly stained soils are approximately eight feet thick. Underlying this is a layer of clay which is approximately 12 feet thick. The sample at 60 feet was taken from sands which are under this clay layer, and shows reduced levels of tetrachloroethane, 1,2-DCA, and a trace amount of methylene chloride. This suggests that the clay layer has probably inhibited the downward migration of these contaminants.

In summary, based on the limited data generated as a result of this preliminary site investigation, we do not feel that there are any significant problems associated with hazardous constituents in borings BH-1, BH-2, BH-3, BH-4, or BH-5. However, the analytical data relevant to boring BH-6 indicates that there are significant concentrations of chlorinated solvents and petroleum hydrocarbons at approximately 40 feet below grade. Although the 60-foot sample showed a significant reduction of these chlorinated compounds, the possibility exists for potential contamination of ground water beneath the cesspool area.

RECOMMENDATIONS

Since borings BH-1 through BH-5 did not result in any significant levels of hazardous waste contamination, no further site investigation work in these areas is recommended. However, additional site investigation work is recommended for the cesspool area. Our recommendations include:

- Drill one monitoring well to determine if ground water beneath the area has been impacted by the former cesspool operation.
- Install vapor well(s) to extract solvents contained at approximately 40 feet below grade.
- Drill additional exploratory in the vicinity of the cesspool to identify the extent of possible lateral migration into surrounding soils at the 40 to 50-foot depth.

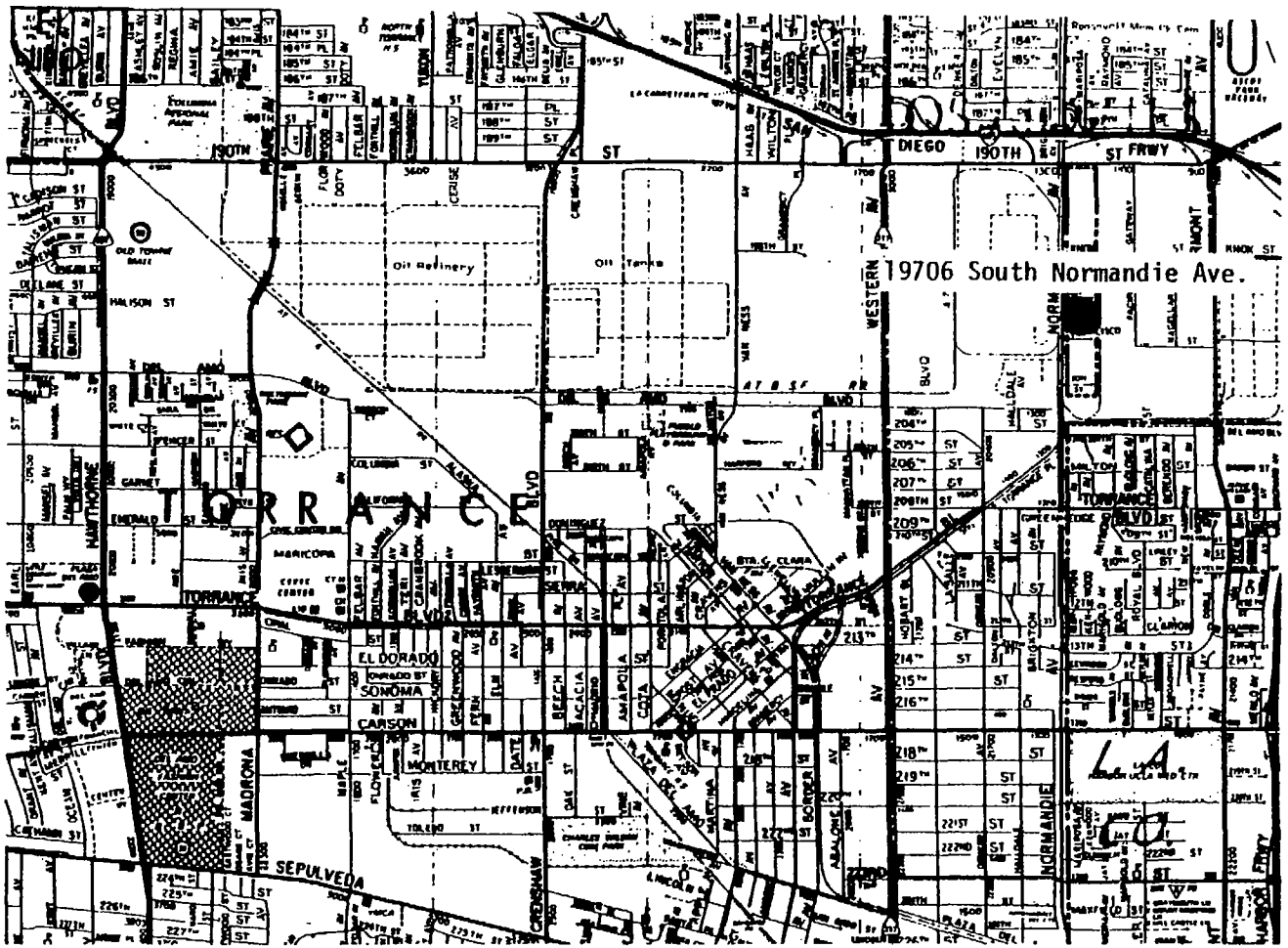

Figure 1.

Location of Trico Industries Torrance facility, 19706 South Normandie Avenue, Torrance, California.

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

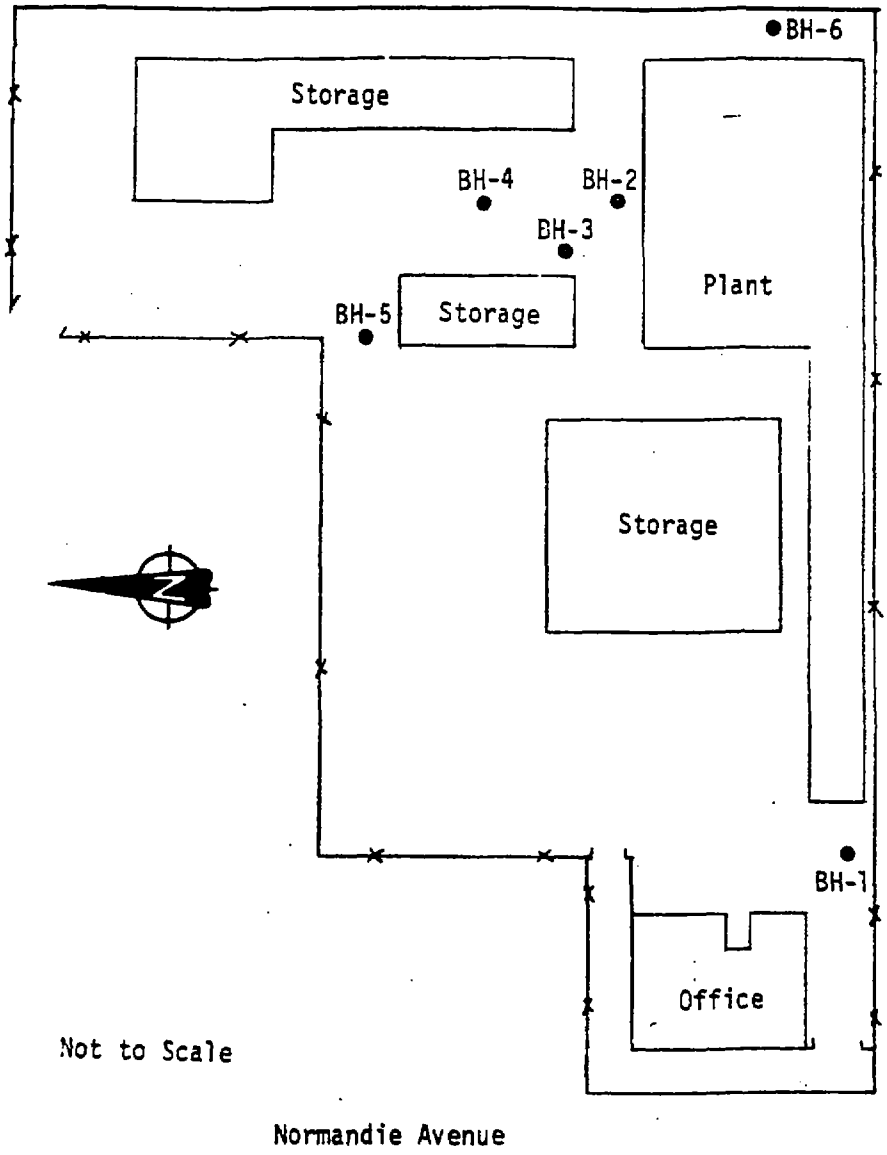

Figure 2

Location of exploratory borings at the Trico Industries facility, 19706 South Normandie Avenue, Torrance, California.

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.

APPENDIX A

GEOLOGIC BORING LOGS

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807-2587
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D					2" of asphalt underlain by a light brown sandy clay with gravel - fill material	
BH1-5		5	CL		brown silty clay, no fines, moist, stiff, no odor.	
BH1-10		10	CL		light brown clay, no fines, moist, moist, hard, no odor.	
BH1-15		15	CL		light brown silty sand, few fines, dry, very stiff, contains root holes, no odor.	
BH1-20		20	CL		light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
		25			Total Depth 20'	
		30				
		35				

SCS ENGINEERS
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SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger
LOGGED BY Greg Helland

DH-

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.						2" of asphalt underlain by a dark brown to black silty clay	
BH2-5			5	CL		green brown slightly sandy clay, stained for 6", fine grains, moist, very stiff, slight odor.	
BH2-10			10	CL		light brown silty clay, slightly mottled, few fines, moist, very stiff, contains root holes, no odor.	
BH2-15			15	CL		light brown silty clay, few fines, dry, very stiff, no odor.	
BH2-20			20	CL		light brown silty clay, few fines, dry, very stiff, no odor, contains root holes.	
						Total Depth at 20 ft.	
			25				
			30				
			35				

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807-2687
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger
LOGGED BY Greg Helland

DH-

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M - D - O (RC)
Sample I.D.						2" of asphalt underlain by dark brown to black silty clay.	
BH3-5			5	CL		reddish brown clay, no fines, dry, very stiff, no odor.	
BH3-10			10	CL		light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH3-15			15	CL		light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH3-20			20	CL		light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
			25			Total Depth 20'	
			30				
			35				

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807 2587
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-81
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger
LOGGED BY Greg Helland

DH-

SURFACE ELEVATION IN FEET DATUM

Sample I.D.	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M — D (RC) — O
						2" of asphalt underlain by dark brown to black silty clay	
BH4-5			5	CL	■	dark brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH4-10			10	CL	■	light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH4-15			15	CL	■	light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH4-20			20	CL	■	light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
			25			Total Depth 20'	
			30				
			35				

SCS ENGINEERS
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SCS Job No. 18719

Site: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample I.D.						2" of oil stained asphalt underlain by dark brown silty clay	
BH5-5			5	CL		dark brown silty clay, few fines, dry, very stiff, no odor.	
BH5-10			10	CL		light brown silty clay, few fines, dry, hard, contains root holes, no odor.	
BH5-15			15	CL		light brown silty clay, few fines, dry, very stiff, contains root holes, no odor.	
BH5-20			20	CL		light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
			25			Total Depth 20'	
			30				
			35				

SCS ENGINEERS
4014 Long Beach Blvd
Long Beach
California 90807-2687
(213) 426-9544
FAX (213) 427-0805

SCS Job No. 18719

Location: Trico Industries - Torrance

LOG OF DRILL HOLE

DRILLED 05/12/87 WITH Mobile B-61
DIAMETER OF DRILL HOLE IN INCHES 7 inch hollow stem auger DH-
LOGGED BY Greg Helland

SURFACE ELEVATION IN FEET DATUM

	GEOLOGICAL CLASSIFICATION DESCRIPTION	ELEVATION IN FEET	DEPTH IN FEET	SYMBOL	SAMPLES	ENGINEERING CLASSIFICATION AND DESCRIPTION	TEST DATA M-D-O (RC)
Sample	LD.					2" of asphalt underlain by brown silty clay	
BH6-5			5	CL		dark brown silty clay, few fines, moist, very dense, no odor.	
BH6-10			10	CL		light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
BH6-15			15	CL		light brown silty clay, few fines, moist, very stiff, contains root holes, no odor.	
BH6-20			20	CL		light brown silty clay, slightly mottled, few fines, very stiff, contains root holes, slight odor.	
			25				
BH6-30			30	SW		brown sand, fine grained, moist, dense, well graded, somewhat stained, slight odor, quartz grains.	
			35				

APPENDIX B

ANALYTICAL DATA FOR SOIL SAMPLES

SCS ENGINEERS ANALYTICAL LABORATORY
4014 Long Beach Boulevard
Long Beach, CA 90807
(213) 494-2828

MEMO
To: Greg Helland

From: Curtis Jenkins — June 3, 1987

Job No.: 18719 — Page 1 of 1

LABORATORY REPORT

Samples: Fourteen (14) soil samples from Trico, Normandy, Torrance, received 5/12/87.

Sample I.D.	Benzene	Toluene	Xylenes	TRPH
	mg/kg			
BH1-10	<0.01	<0.01	<0.01	<1
BH1-15	<0.01	<0.01	<0.01	<1
BH6-10	---	---	---	<1
BH6-20	---	---	---	<1
BH6-40	---	---	---	1477 D
BH6-60	---	---	---	<1

EPA 8010 and 8020 - see attached; separate sheet per sample.

TRPH - Total Recoverable Petroleum Hydrocarbons
D - Diesel

David Sincerbeaux
Chemist

Curtis B. Jenkins
Laboratory Director

---

tricol.rep16

PACCAR 03345

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH5-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico3.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH3-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico6.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH4-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	89	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico8.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8020

Sample I.D.: BH4-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Benzene	ND	10
Chlorobenzene	ND	10
Ethylbenzene	ND	10
Toluene	ND	10
Xylenes	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10

D.L. = Detection Limit
ND = Not Detected

trico9.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH5-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	23	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	8	5
1,1,1-trichloroethane	20	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico10.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	7	5
1,1,1-trichloroethane	92	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico12.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-20
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	16	5
1,1,1-trichloroethane	62	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico13.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-40
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	17600	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	3070	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico14.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH6-60
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	62	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	117	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	122	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico15.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH2-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	20	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	10	5
1,1,1-trichloroethane	8	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico16.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH2-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	296	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico17.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH3-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico18.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH3-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	46	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico19.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

Sample I.D.: BH4-5
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	ND	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	ND	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico20.rep16

SCS ENGINEERS ANALYTICAL LABORATORY
Addendum Report, EPA 8010

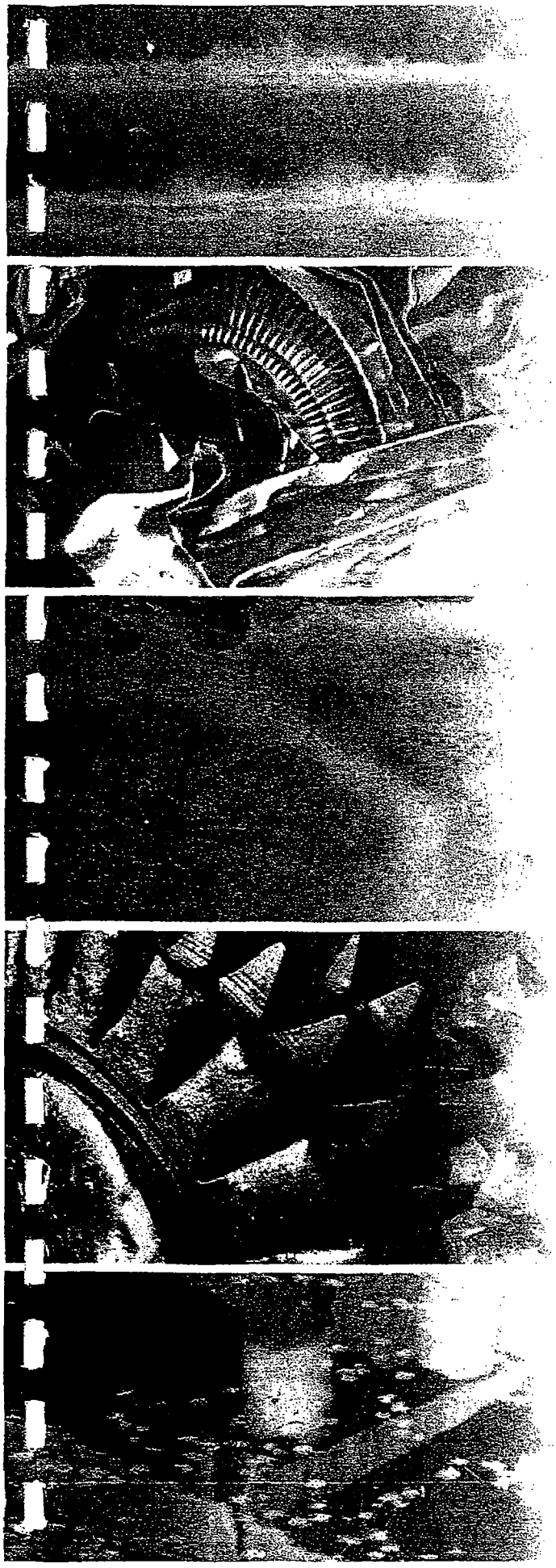
Sample I.D.: BH4-10
Date: 6/3/87
Matrix: soil

Compound	Result	D.L. ug/kg
Bromomethane	ND	50
Bromodichloromethane	ND	5
Bromoform	ND	5
Carbon Tetrachloride	ND	5
Chlorobenzene	ND	5
Chloroethane	ND	50
2-chloroethylvinyl ether	ND	50
Chloroform	ND	5
Chloromethane	ND	50
Dibromochloromethane	ND	5
1,1-dichloroethane	ND	5
1,2-dichloroethane	ND	5
1,1-dichloroethene	ND	5
trans-1,2-dichloroethene	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trans-1,3-dichloropropene	ND	5
Methylene Chloride	27	50
1,1,2,2-tetrachloroethane	ND	5
Tetrachloroethene	ND	5
1,1,1-trichloroethane	11	5
1,1,2-trichloroethane	ND	5
Trichloroethene	ND	5
Trichlorofluoromethane	ND	5
Vinyl Chloride	ND	50

D.L. = Detection Limit
ND = Not Detected

trico21.rep16

- HB Copy -



Supplemental Site Investigation Report for

Former Trico Facility
1206 West 196th Street
Torrance, California

Prepared for:

Paccar, Inc.
777 106th Avenue NE
Bellevue, WA 98004

December 10, 2003

Project No. 6999.06

HARTCROWSER
Delivering smarter solutions

PACCAR 03361

HARTCROWSER
Delivering smarter solutions

www.hartcrowser.com

Anchorage

Letter of Transmittal

To: LARWQCB.
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Date: December 11, 2003

Job No.: 6999.06

Boston

Attn: Pinaki Guha-Niyogi

Re: Supplemental Site Investigation Report

We are sending the following items via TLC:

Denver

Date	Copies	Description
12/10/03	3	Supplemental Site Investigation Report for Former Trico Facility, 1206 West 196th Street, Torrance, CA

Edmonds

These are transmitted:

☐ For your information ☐ For action specified below ☒ For review and comment ☒ For your use ☐ As requested

Eureka

Remarks

Jersey City

Long Beach

By: Dana La Rosa
Dana La Rosa

2 Copies to: Fred Benz

Title: Office Administrator

Portland

F:\DATA\JOBS\6900s\6999.06 PACCAR Torrance\Deliverables\Transmittal to Water Board 12-11-03.doc

Seattle

301 East Ocean Boulevard, Suite 1950
Long Beach California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

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Anchorage

Supplemental Site Investigation Report for Former Trico Facility 1206 West 196th Street Torrance, California

Boston

Denver

Prepared for
Paccar, Inc.
777 106th Avenue NE
Bellevue, WA 98004

Edmonds

Eureka

December 10, 2003

6999-06

Jersey City

Prepared by
Hart Crowser, Inc.

Long Beach

Ronald Halpern, RG
CA RG #6645
Associate Geologist

Alistaire Callender, Ph.D.
Principal

Portland

Seattle

301 East Ocean Boulevard, Suite 1950
Long Beach, California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

EXECUTIVE SUMMARY

Introduction

This report has been prepared according to the proposed Scope of Work (SOW) between PACCAR Inc., (PACCAR) and Hart Crowser, Inc. (Hart Crowser) to collect additional data on soil and groundwater conditions at the Former Trico Facility (Site) located at 1206 West 196th Street in Torrance, Los Angeles County, California. The Supplemental Site Assessment Work Plan was developed based on previous work performed at the Site; and discussions between PACCAR, Hart Crowser, and the Regional Water Quality Control Board - Los Angeles Region (RWQCB). The SOW was generally completed under the work authorizations dated February 13, 2002, October 30, 2002 and December 20, 2002 and the Terms and Conditions of Hart Crowser's Master Services Agreement with PACCAR Inc. dated September 23, 1999.

Purpose

The purpose of this Supplemental Site Assessment is to develop additional data on soil and groundwater conditions at the Site, with a view to obtaining closure for the soil. The purpose of this investigation included the following:

- Assessment of the potential source(s) and extent of chemicals of concern (COCs) in the Site soil;
- Identification of the depth of the first occurring groundwater;
- Additional groundwater sampling at the Site; and
- Development of preliminary soil and groundwater data to support an eventual request for Site soil closure.

Site Description

The Site is located approximately 0.42 mile south of 190th Street and approximately 400 feet east of Normandie Avenue in the City of Torrance, Los Angeles County, California. Three steel frame and concrete block, single-story, buildings (Buildings A, B, and C) currently occupy the 10,000 square foot Site. The ground surface at the Site is relatively flat and either paved with asphalt concrete or concrete slab-on-grade, with little exposed soil. PACCAR, Inc. is the current registered owner of the Site. The Site layout is shown on Figures 2 and 3.

Soil beneath the Site consists primarily of clayey and sandy silt and silty sand to depths of 45 to 55 feet, underlain by fine and medium sand and silty sand to at least 110 feet bgs. A relatively horizontal marker layer of clayey silt and silty sand

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with abundant white marine shells was observed at approximately 45 feet bgs. The fine and medium sand layer has an apparent dip to the east. Varying thicknesses of silt and silty sand were observed between the marker bed and the underlying sand layer.

Groundwater occurred at approximately 55 to 60 feet bgs. A groundwater elevation contour map, prepared from data measured February 18, 2003 suggests groundwater beneath the Site flows to the southwest at a depth of approximately 59 feet (-14 feet relative to mean sea level) and a gradient of approximately 0.002 foot/foot.

Potential Sources of Contamination

As a result of previous work at the Site by Hart Crowser and others, a number of potential on-site and off-site sources have been identified and partially characterized at the former TRICO facility. In the following sections the potential on- and off-site sources of chemicals of concern are discussed.

Potential On-Site Sources

ASTs (Central). Former site occupants utilized three ASTs in the central portion of the subject property to store solvents.

ASTs (Northwest). Former site occupants appear to have utilized four ASTs in the northwestern portion of the property. The former contents of these tanks are unknown.

ASTs. Two ASTs south of Building B were used for TCE storage.

Vehicle Maintenance Area. TRICO reportedly conducted vehicle maintenance activities north of Building C.

Paint Dip Tank. TRICO reportedly utilized a paint dip tank to coat finished parts. A drip area was located along the center portion of the north wall of Building A to contain dripping paint from painted parts.

Cesspool. B & W Monarch and TRICO utilized a cesspool on the east side of Building A. SCS Engineers (SCS) conducted soil sampling around the cesspool and installed a groundwater monitoring well in the vicinity of the cesspool area. Soil and groundwater samples contained elevated concentrations of chlorinated VOCs.

Clarifier (Central). SCS did not assess the clarifier located in the center of the Site near the vehicle and parts washing area in 1987. Boring BH-4 was installed

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by SCS in the general vicinity to assess the former steam cleaning area. Soil samples from boring BH-4 contained concentrations of chlorinated VOCs.

Clarifier (Southeast). The southeast clarifier was used to process a machine outflow stream prior to discharge to the storm drain.

Chemical Storage Area. TRICO stored chemicals (including toluene) in the southeast corner of the Site.

Potential Off-Site Sources

Montrose and Del Amo Superfund Sites. Releases of hazardous substances, including but not limited to benzene, TCE, PCE, and DCE, have reportedly occurred as a result of operations at both the former Montrose Chemical and Del Amo plant properties and otherwise as a result of operations at two smaller facilities; the former AMOCO and Lawson Chemical facilities. The groundwater contamination from both sites is being addressed by EPA as a **single technical problem with a unified remedial strategy**, which has been developed in part by considering the interrelationships of the various areas of groundwater at the Montrose Chemical and Del Amo Superfund Sites. The EPA has issued the Record of Decision that also includes a waiver of the requirement to attain In-Situ Groundwater Standards levels, and other ARARs identified in Appendix A of the ROD, based on the technical impracticability of cleaning groundwater to In-Situ Groundwater Standards levels. It is technically impracticable to attain In-Situ Groundwater Standards levels inside the containment zone, because the NAPL continues to dissolve into groundwater there. Because it is technically impracticable to attain In-Situ Groundwater Standards levels inside the containment zone, this same physical space is also referred to as the ***TI waiver zone***. The groundwater under the Trico Torrance site falls within the TI waiver zone.

Lumber Storage and Treatment. A lumber storage and treatment operation exists on the west side of the Site. The facility has been in operation since at least 1972.

Boeing Aircraft (Formerly McDonnell Douglas). A McDonnell Douglas facility was formerly located 600 feet west/northwest and potentially upgradient of the Site across Normandie Ave. Solvent-impacted soil and groundwater have been identified at the Boeing facility.

Other Neighboring Industrial Facilities. American Polystyrene (formerly Amoco Chemical Company), located north of the Site, maintained chemical-containing ASTs. DPW documents from the 1960s indicated Amoco used

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solvents. Additionally, Amoco disposed of wastewater in a cesspool and maintained sumps. A paint manufacturer located 500 feet northwest of the Site formerly maintained solvent-containing USTs. Some of these USTs were abandoned in place. These two adjoining properties have apparently impacted the subject Site.

Agricultural Land Use. The Site may have been impacted by previous pesticide application during the agricultural use. It is likely that potential residues from the pesticides, fungicides, and herbicides (if present) are in very low concentrations due to age, deterioration, and dilution.

Scope of Work

The following scope of work was completed to further investigate the identified potential on-site sources, and develop a plan for soil closure:

- Health and Safety Plan Modification;
- Underground Utility Search, Well Permitting and Notifications;
- Soil Sampling and Laboratory Analyses at potential source areas identified above;
- Installation of one groundwater monitoring well in the southwestern corner of the Site;
- Sampling of existing and new groundwater monitoring wells;
- Site Survey of the soil borings, wells and buildings; and
- The preparation of this Supplemental Site Investigation Report.

Field Activities

Twenty soil borings (BL-01 through BL-20) were drilled from December 10 to 18, 2002 and December 24, 2002. Soil samples were collected at five-foot intervals starting at 0.5 feet bgs to 60 feet bgs. The samples were appropriately labeled, recorded on chain-of-custody documents, and placed in cold storage pending chemical analysis. A description of materials encountered during advancement of the borings was recorded on field boring logs.

Nine borings were converted to temporary groundwater monitoring wells to collect grab groundwater samples for screening purposes. The installation of the

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temporary wells consisted of drilling to a total depth of approximately 70 feet bgs and installing the temporary well casing and screen. New one-liter disposable polyethylene bailers were used to collect the grab groundwater samples from the temporary groundwater wells. The boreholes were backfilled with a cement bentonite grout upon completion of groundwater sampling procedures. One permanent monitoring well (MW-8) was installed and developed in soil boring BL-17, drilled near the southwest corner of the Site. The six on-site groundwater-monitoring wells (MW-3 through MW-8) were purged and sampled on January 17, 2003.

Once the field activities were completed, Dulin and Boynton, a licensed California surveyor of Signal Hill, California, provided a land survey map of buildings, applicable sampling locations and monitoring wells. Dulin and Boynton completed the survey on January 17, 2003.

The depth to water level from top of casing was measured and recorded on February 18, 2003 for all of the on-site wells (MW-3 through MW-8) at the Site.

Analytical Program

A total of 70 soil samples were selected for VOC analysis by EPA Method 8260B based on visual observations of the cuttings, PID readings, and the potential depth of soil closure. A total of 12 samples were selected for analysis of SVOCs by EPA 8270 and a total of 12 corresponding soil samples were selected for analysis of PCBs and pesticides by EPA Method 8080. A total of six samples were selected for TRPH by EPA Method 418.1 and a total of seven samples by EPA 6010B/7000 for Title 22 Metals. Groundwater samples collected from the temporary and permanent wells were analyzed for VOCs by EPA Method 8260B.

SUMMARY OF FINDINGS

Soil

Generally the soils encountered were described as fine, moist, silty sand, interbedded silty clay and clayey silt layers. A medium sand bed was generally encountered in most soil borings where groundwater was first detected, at approximately 60 feet bgs.

Low concentrations of metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, vanadium, and zinc) were detected in most of the soil samples analyzed but are below the

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preliminary remediation goals (PRGs), and are within the concentration ranges typically found in soils in the western United States.

Based on the analytical data collected during this phase of the investigation, concentrations of VOCs in site soil above industrial PRGs are present in the northwest corner of the site where Borings BL-1 through BL-4 were drilled and ASTs were previously located, in the northeast corner of the site at Borings BL-19 and BL-20 and in shallow soil near the former clarifier, where Boring BL-6 was drilled. TRPH, SVOCs including PCBs, were not detected above PRGs at the Site.

Groundwater

Static groundwater levels ranged from approximately 56 to 58 feet bgs. The approximate groundwater flow direction is towards the southwest with an approximate gradient of 0.002 ft/ft.

The VOC concentrations detected in groundwater at the site are consistent with earlier rounds of samples in 1995, 1998, and 2000. The concentrations of the VOCs used as indicator chemicals, cis-1,2-DCE, TCE, and PCE are generally similar to the values measured previously.

The data continue to show that groundwater at the site is affected by chlorinated VOCs that apparently originate from both onsite and offsite sources. The data suggests that contamination is coming onto the site from the north and northeast, and that impacted groundwater may be going off the site to the southwest.

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1.0 INTRODUCTION

This report has been prepared according to the proposed Scope of Work (SOW) between PACCAR Inc., (PACCAR) and Hart Crowser, Inc. (Hart Crowser) to collect additional data on soil and groundwater conditions at the Former Trico Facility (Site) located at 1206 West 196th Street in Torrance, Los Angeles County, California (Figure 1). The Supplemental Site Assessment Work Plan was developed based on previous work performed at the Site; and discussions between PACCAR, Hart Crowser, and the Regional Water Quality Control Board - Los Angeles Region (RWQCB). Copies of correspondence from the RWQCB are reproduced in Appendix A. The SOW was generally completed under the work authorizations dated February 13, 2002, October 30, 2002 and December 20, 2002 and the Terms and Conditions of Hart Crowser's Master Services Agreement with PACCAR Inc. dated September 23, 1999.

1.1 Purpose

The purpose of this Supplemental Site Assessment is to develop additional data on soil and groundwater conditions at the Site, with a view to obtaining closure for the soil. Hart Crowser submitted a Work Plan, on behalf of PACCAR, for supplemental site investigation to the RWQCB on February 14, 2002. The RWQCB reviewed the Work Plan and requested additional information in a letter dated April 12, 2002. Hart Crowser prepared a *Revised Work Plan for Supplemental Site Investigation* dated June 12, 2002 to provide the requested information. The purpose of this investigation included the following:

- Assessing potential source(s) and extent of chemicals of concern (COCs) in the Site soil;
- Evaluating the depth of the first occurring groundwater;
- Evaluating the current conditions of groundwater through groundwater sampling at the Site; and
- Developing data to support a request for Site soil closure.

1.2 Site Background

Former Operations. Historical data indicated the Site and neighboring properties were used for agriculture from the 1920s to the 1940s.

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Based on a review of building permits at the County of Los Angeles Department of Public Works (DPW), performed in 1995 as part of the Phase I ESA for the Site, it appears that the Site was originally developed in the 1940s. Through the 1950s and 1960s, the Site occupants remodeled the subject buildings as well as constructed additional buildings on the property. The original land use appears to have been storage of construction related equipment (Kuchner Construction Company), followed by the manufacture of paints and storage of solvents (American Chemsolv, Inc.), and finally the manufacture ~~and possibly testing of~~ oil well completion equipment (B & W Monarch followed by TRICO). The earliest permits contained in the file for 1206 W 196th Street are dated 1957. These permits were obtained for the construction of a cesspool. Building permits indicate that the Site was occupied at that time by American Chemsolv, Inc. (a paint manufacturing and solvent storage facility). By 1974, B & W Monarch (TRICO's predecessor) occupied the property (Hart Crowser, 1995).

The western section of the original property, the "L"-shaped extension, was sold by PACCAR to Mighty Enterprises Incorporated (Mighty) in 1989, and is currently owned and occupied by Mighty. This section now has the address 19706 South Normandie Avenue. **PACCAR owns the rest of the original property, which retained the 1206 W. 196th Street address.** Mighty leases the 1206 W. 196th Street property from PACCAR for the assembly and service of machine tools, which are supplied to the aerospace industry (Building A), for the storage and refurbishing of imported patio furniture products (Buildings B and C), see Figures 2 and 3. In this report the term "Site" refers only to the 1206 W. 196th Street address (Figure 3).

Vicinity Land Use. Land use in the vicinity of the Site is comprised primarily of industrial facilities (Figure 2). American Polystyrene Company (formerly Amoco Chemical Company) is located to the north; Mighty Enterprises (an importer) and a lumber yard are located to the west; Redman Manufacturing (a heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track is located between the Site and the R.R. Donnelly facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 400 feet and 600 feet northwest of the Site, respectively. The Site is located adjacent to the western boundary of the Del Amo Superfund site and approximately 1,500 feet northeast of the "Montrose Chemical Superfund site."

1.3 Site Description

The Site is located approximately 0.42 mile south of 190th Street and approximately 400 feet east of Normandie Avenue in the City of Torrance, Los

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Angeles County, California (see Figure 1). The Site is developed with three steel frame and concrete block buildings (Buildings A, B, and C) and occupies approximately 100,000 square feet (Figure 3). It is currently owned by PACCAR. It is paved with asphalt concrete or concrete slab-on-grade with little exposed soil on a relatively flat parcel. The three buildings are single story with varying heights. A brief description and former use of the Site include:

Building	Size (sf)	Construction	Former Use
A	20,000	Concrete block	Pump Manufacture
B	14,000	Concrete Block with Metal Siding	Warehouse/Shipping
C	4,000	Concrete Block	Warehouse

Geology/Hydrogeology. The Site is at an elevation of approximately 40 to 45 feet relative to mean sea level (MSL) in tract G of Section 1, Township 4S, Range 14W relative to the San Bernardino Base and Meridian, as displayed on the US Geological Survey (USGS) 7.5-minute topographic quadrangle map of Torrance-California (USGS, 1964). The local topography at the Site vicinity is relatively flat with street drainage to the east toward the Dominguez Channel located approximately one mile to the east. The Dominguez Hills are located approximately 1.9 mile to the northeast.

The Site is located in the south central portion of the Torrance Plain (California Department of Water Resources [DWR], 1961). The Torrance Plain consists of elevated, dense, silty sand of older alluvium that is covered, locally, with moderately dense silty sand of older eolian deposits. The Pleistocene older alluvium of the Torrance Plain is incised and filled with soft, locally derived sandy silt and sandy clay of younger alluvium. According to DWR, regional materials in the Site area consist of the following:

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Formation	Hydraulic Unit	Depth Range (Feet bgs)	Composition
Lakewood	Bellflower aquiclude	Ground Surface to 120 feet	Sand, silt, and clay
	Gage aquifer	125 to 160 feet	Fine to medium sand
San Pedro	Un-named aquiclude	160 to 270 feet	Silt and clay
	Lynwood	270 to 350 feet	Sand and gravel
	Un-named aquiclude	350 to 475 feet	Silt and clay
	Silverado aquifer	475 to 740 feet	Sand and gravel

Source: DWR, 1961
Notes:
bgs - below ground surface.
depths are approximate

Materials encountered beneath the Site during the various phases of assessment consists primarily of clayey and sandy silt and silty sand to depths of 45 to 55 feet, underlain by fine and medium sand and silty sand to at least 110 feet bgs. A relatively horizontal marker layer of clayey silt and silty sand with abundant white marine shells was observed at approximately 45 feet bgs. The fine and medium sand layer has an apparent dip to the east. Varying thicknesses of silt and silty sand were observed between the marker bed and the underlying sand layer.

Hydrogeologically, the Site is located in the pressure area of the West Coast Groundwater Basin and is separated from the main Central Basin by the Newport-Inglewood Fault. The West Coast Groundwater Basin is contained within the Southwestern Structural Block of the Central Plain. Fresh groundwater-bearing sediments within the Central Basin range in age from Holocene to Pliocene, and extend to depths in excess of 1,500 feet. The separate hydraulic units below this portion of the Central Basin are named successively with depth in the table above.

Groundwater occurred at approximately 55 to 60 feet bgs. A groundwater elevation contour map, prepared from data measured February 18, 2003 suggests groundwater beneath the Site flows to the southwest at a depth of approximately 59 feet (-14 feet relative to mean sea level) and a gradient of approximately 0.0014 foot/foot. This is consistent with groundwater data collected from the Del Amo Study area, adjacent to and east of the Site.

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1.4 *Potential Sources of Chemicals of Concern*

As a result of previous work at the Site by Hart Crowser and others, a number of potential on-site and off-site sources have been identified and partially characterized at the former TRICO facility. In the following sections the potential on- and off-site sources of chemicals of concern are discussed. Figure 2 shows the potential on- and off-site source areas.

1.4.1 Potential On-Site Sources

ASTs (Central Area). Former site occupants utilized three aboveground storage tanks (ASTs) in the central portion of the subject property to store solvents.

ASTs (Northwest). Former site occupants appear to have utilized four ASTs in the northwestern portion of the property. The former contents of these tanks are unknown.

ASTs. Two ASTs south of Building B were used for trichloroethylene (TCE) storage.

Vehicle Maintenance Area. TRICO reportedly conducted vehicle maintenance activities north of Building C.

Paint Dip Tank. TRICO reportedly utilized a paint dip tank to coat finished parts. A drip area was located along the center portion of the north wall of Building A to contain dripping paint from painted parts.

Cesspool. B & W Monarch and TRICO utilized a cesspool on the east side of Building A. SCS Engineers (SCS) conducted soil sampling around the cesspool and installed a groundwater monitoring well in the vicinity of the cesspool area. Soil and groundwater samples contained elevated concentrations of chlorinated VOCs.

Clarifier (Central). SCS did not assess the clarifier located in the center of the Site near the vehicle and parts washing area in 1987. Boring BH-4 was installed by SCS in the general vicinity to assess the former steam cleaning area. Soil samples from boring BH-4 contained concentrations of chlorinated VOCs.

Clarifier (Southeast). The southeast clarifier was used to process a machine outflow stream prior to discharge to the storm drain.

Chemical Storage Area. TRICO stored chemicals (including toluene) in the southeast corner of the Site.

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1.4.2 Potential Off-Site Sources

Montrose and Del Amo Superfund Sites

A Record of Decision (ROD) was issued in March of 1999 for both the **Montrose Chemical Superfund Site** and the **Del Amo Superfund** site in Los Angeles County, California. Releases of hazardous substances, pollutants or contaminants from the former dichlorodiphenyltrichloroethane (DDT) pesticide manufacturing plant operated by Montrose Chemical Corporation, including but not limited to chlorobenzene, DDT, and para-chlorobenzene sulphonic acid, have resulted in hazardous substances contamination in the groundwater.

From the early 1940s until the late 1960s, the Shell Synthetic Rubber Plant was located on the adjacent property to the east. A portion of this property is now on the National Priority List (NPL) and Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) list, and is now known as the Del Amo Superfund site. The Shell plant utilized numerous ASTs, some within 50 feet of the Site. Although no detectable concentrations of target compounds were reported in groundwater samples collected from the three Superfund groundwater monitoring wells located on the eastern side of the Site, chlorinated volatile organic compounds (VOC) concentrations were detected in the Superfund groundwater monitoring wells MW-1 and MW-2. Release of hazardous substances from the former Del Amo Synthetic Rubber Manufacturing plant, including but not limited to benzene, ethylbenzene, and naphthalene have resulted in hazardous substances contamination in the groundwater.

Additionally, releases of hazardous substances including but not limited to benzene, TCE, perchloroethylene (PCE), and dichloroethylene (DCE) have reportedly occurred as a result of the operations at both the former Montrose Chemical and Del Amo plant properties and otherwise as a result of the operations of additional facilities in the immediately surrounding area. These releases have also resulted in groundwater contamination. Some of the hazardous substances discussed above are present below the ground surface in the form of non-aqueous phase liquids (NAPL) as well as dissolved in the water and adsorbed to soils. Contamination in groundwater from the two sites has partially co-mingled, or merged. Remedial actions selected for the contamination originating from either site individually would affect the contamination, execution, and implications of remedial actions selected for the contamination originating from the other site. The groundwater contamination from both sites is being addressed by EPA as a **single technical problem with a unified remedial strategy, which** has been developed in part by considering the

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interrelationships of the various areas of groundwater at the Montrose Chemical and Del Amo Superfund Sites. EPA has given the name "joint site" to the groundwater contamination from the Del Amo and Montrose sites and from a few smaller nearby facilities, which will be affected by the cleanup.

According to the record, two facilities at the Del Amo western border handle solvents and have soils with high levels of these solvents. US EPA's June 1998, Figure 2 [found in Appendix B of this report] shows the general location of these two facilities and their sources of contamination. US EPA's Figures 2-3a (showing Source Area #2) and 2-3b (showing "possible DNAPL location"), [found in Appendix B of this report] illustrate the locations of these two facilities in relationship to the Montrose Chemical and Del Amo Superfund Sites and the Trico Torrance site.

Hart Crowser Figure #2 [found in Appendix B of this report] provides greater detail of the features of these two facilities; the former AMOCO and Lawson Chemical, and the "Former Trenches" of the Del Amo site. It is believed that the Former Trenches were used for waste disposal activities.

According to the Record of Decision (ROD) provided by the EPA in 1999, the groundwater remedial action is being evaluated and selected in two phases. The Initial phase does not evaluate NAPL recovery/removal; it addresses hydraulic isolation of NAPL and dissolved phase cleanup. As such, source removal (NAPL recovery) technologies are not pertinent to the present effort.

1) In the **case of the Joint Site** and the JGWFS model, development of a reliable **absolute estimate of cleanup** duration is not feasible and therefore not appropriate at this time. Even increasing the model's sophistication would not erase the uncertainties inherent in the long-term modeling of these complex systems. Also, it is unlikely that the increased data needed to support more sophisticated assessments would be available. The model could, of course, produce values for "total cleanup time". However, EPA believes it is disingenuous to represent that estimate as the cleanup time because the uncertainty associated with it is too high. There are too many uncertainties in both existing and future conditions to make a modeling estimate reliable over a time frame **on the order of centuries.**

2) The amount of **time for all NAPL to be dissolved** so that NAPL isolation is no longer necessary is the most uncertain, and EPA has not modeled this value. The cleanup duration for this **is "indefinite"**.

3) The **time to achieve reduction of the plume outside** the containment zone is likely to be on the **order of a century**."

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Technical Impracticability Waiver

Direct quotations from Section 10, Volume I of the R.O.D.

"The ROD issues a waiver of the requirement to attain In-Situ Groundwater Standards (ISGS) levels, and other ARAR's identified in Appendix A of the ROD, based on the technical impracticability of cleaning groundwater to ISGS levels.

It is technically impracticable to attain ISGS levels inside the containment zone, because the NAPL continues to dissolve into groundwater there.

The objective for groundwater inside the containment zone is containment; the objective for groundwater outside the containment zone is restoration to ISGS levels.

Because it is technically impracticable to attain ISGS levels inside the containment zone, this same physical space is also referred to as the ***TI waiver zone.***

The ROD, in issuing the TI waiver, determines solely that existing technologies will be incapable of practicably recovering enough NAPL (essentially all of it) to attain ISGS levels at all points in groundwater.

NAPL is known as one of the most challenging and recalcitrant of all Superfund problems. As already discussed, while in most cases there are technologies that can remove some NAPL, it is often necessary to remove virtually all NAPL before concentrations in groundwater near the NAPL can approach concentrations commensurate with ISGS levels. Presently, there are no technologies, which have been proven to be capable of removing all NAPL from large sites where NAPL is widely distributed laterally and vertically, and where stratigraphy is highly heterogeneous and complex.

At the Del Amo Site, there is also substantial heterogeneity in the soils. Although NAPL at the former Del Amo plant property consists primarily of benzene, and therefore is lighter than water (LNAPL), beneath the site it is primarily smeared below the water table. **This distribution of LNAPL beneath the former Del Amo plant property is the result of low water levels at the time of the LNAPL release and subsequent rise of the water table for about the past 30 years.**

Where TI waivers are applied, **the waiver is applied to all chemicals within the TI zone, regardless of whether all of the chemicals served to base the original justification for the waiver.** For example, if there is a TI waiver zone due to

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benzene as NAPL, all other contaminants in the same zone that are not present as NAPL would also be subject to the waiver."

Lumber Storage and Treatment. A lumber storage and treatment operation exists on the west side of the Site. The facility has been in operation since 1972 or earlier. If lumber was treated on (or very near to) the Site in the past, it is possible that related treatment chemicals might have impacted soil and groundwater beneath the Site.

Boeing Aircraft (Formerly McDonnell Douglas). A McDonnell Douglas facility was formerly located 600 feet west/northwest and potentially upgradient of the Site across Normandie Ave. Solvent-impacted soil and groundwater have been identified at the Boeing facility. This reported groundwater plume might pose a threat to the Site due to its gradient location.

Other Neighboring Industrial Facilities. American Polystyrene (formerly Amoco Chemical Company), located north of the Site, maintained chemical-containing ASTs. DPW documents from the 1960s indicated Amoco used solvents. Additionally, Amoco used a cesspool to dispose of wastewater and maintain sumps. A paint manufacturer located 500 feet northwest of the Site formerly maintained solvent-containing USTs. Some of these USTs were abandoned in place. These two adjoining properties have apparently impacted the subject Site.

Agricultural Land Use. The Site may have been impacted by previous pesticide application during the agricultural use. It is likely that potential residues from the pesticides, fungicides, and herbicides (if present) are in very low concentrations due to age, deterioration, and dilution.

2.0 PREVIOUS INVESTIGATIONS

Hart Crowser conducted a Phase I Environmental Site Assessment (ESA) of the Site in 1995. The purpose of the ESA was to develop environmental information on the current Site conditions and past practices. Hart Crowser also conducted a Phase II investigation of the Site in 2000 to investigate potential sources of contamination and address the concerns raised by the CRWQCB.

In addition to the Phase I ESA (1995) and Phase II (2000) performed by Hart Crowser, a number of other studies were performed at the Site by SCS Engineers, H2O Science, Hargis and Associates, Dames and Moore and Weston. A brief summary of these studies is provided in this section.

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2.1 SCS Engineers

In 1987 and/or 1988, SCS Engineers installed soil borings and monitoring wells (MW-1 and MW-2) at the Site. Monitoring wells MW-1 and MW-2 were screened across two groundwater-bearing units [Upper Bellflower Aquitard (UBF, also referred to as the Water Table Zone) and Middle Bellflower B Sand/Middle Bell Flower Aquitard Mud (MBF)]. Groundwater occurs at an approximate depth of 65 to 70 feet bgs in the UBF water bearing unit and 80 to 115 feet bgs in the MBF water-bearing unit.

The analytical results indicated that varying concentrations of chlorinated VOCs were present in subsurface soil samples collected throughout the Site. Several VOCs, including TCE and PCE, were detected in the groundwater samples collected by SCS in 1987.

2.2 H2O Science:

In 1995, H2O Science collected soil samples and installed monitoring wells, MW-3 and MW-4 at the Site. Monitoring wells MW-3 and MW-4 are screened in the first water-bearing unit (UBF). The analytical results from these investigations indicated that TCE and PCE are present in the soil and groundwater at the Site. For soils, the maximum concentrations of TCE (8.8 milligram per kilogram [mg/kg]) and PCE (3.5 mg/kg) were detected (at 68 feet bgs) in a soil boring that was converted to well MW-3. This well is located approximately 40 feet east/northeast of four former ASTs. A groundwater sample was collected at this location at approximately 60 feet bgs. TCE and PCE were detected in this groundwater sample at concentrations of 30,000 micrograms per liter (µg/l) and 15,000 µg/l, respectively.

2.3 Hargis and Associates

A 1990 report by Hargis and Associates contained groundwater analytical data from a 1990 sampling event for MW-2 only.

2.4 Dames and Moore

A report by Dames and Moore contained groundwater data for the three Del Amo Superfund site-monitoring wells (SWL-0029, SWL-0030, and SWL-0031) located on the northeastern portion of the Site. Groundwater samples collected in the last quarter of 1993 did not contain detectable concentrations of solvents.

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2.5 *Weston*

The Weston report was prepared under contract with the USEPA. Weston evaluated the Site's eligibility for cleanup under CERCLA and for potential listing on the NPL. The Weston report incorporated data obtained during their site reconnaissance as well as data from the 1987 SCS report. Based on the findings in the Weston report, the TRICO facility was not included on the NPL.

2.6 *Hart Crowser*

As indicated earlier, Hart Crowser performed a Phase I Environmental Site Assessment (ESA) for the Site in 1995.

Hart Crowser also sampled the four monitoring wells at the Site (MW-1 through MW-4) in 1998 (Hart Crowser 1998b). PCE, TCE, and cis–1,2–DCE were detected in all the monitoring wells. As indicated previously, Hart Crowser abandoned monitoring wells MW-1 and MW-2 in 1998.

In addition, Hart Crowser conducted Phase II field investigations at the Site in April and August 2000 to further characterize subsurface soil and groundwater conditions at the Site. The subsurface characterization was accomplished using Cone Penetrometer Testing (CPT) and hollow stem auger drilling. The purpose of the April and August 2000 scope of work was to:

- Characterize and better understand the Site lithology and hydrogeology; and
- Identify potential on-site source areas, on-site groundwater quality, and the quality of groundwater coming onto the Site from the north and west.

Hart Crowser installed three monitoring wells (MW-5, MW-6, and MW-7), screened in the first water-bearing unit, at the Site in August 2000 (Figure 3). Several VOCs, including PCE and TCE, were detected in the groundwater samples collected at the Site. VOC concentrations in soil were confined to the east/southeastern and northwestern portion of the Site.

The prior soil investigations by Hart Crowser at the Site did not identify major source areas for the solvents detected in groundwater at the Site.

3.0 SCOPE OF SERVICES

The current investigation was implemented after review and approval of the Work Plan by the RWQCB. The following scope of services was completed to further investigate potential on-site sources:

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- Health and Safety Plan Modification;
- Underground Utility Search, Well Permitting and Notifications;
- Soil Sampling and Laboratory Analyses at potential on-site source areas identified in section 1.4.1;
- Installation of one groundwater monitoring well near the southwestern portion of the Site;
- Sampling of existing and new groundwater monitoring wells;
- Site Survey of the soil borings, wells and buildings; and
- The preparation of this Supplemental Site Investigation Report.

4.0 SUMMARY OF FIELD INVESTIGATION ACTIVITIES

Prior to implementing the field investigation, Hart Crowser updated the H&S Plan for the Site. In the following sections the utility locating, soil boring drilling and sampling, Hydropunch® installation, temporary well installation, permanent well installation, and groundwater sampling activities conducted during this investigation, are discussed.

4.1 Utility Location, Permitting, and Mapping

Hart Crowser subcontracted Spectrum Geophysics (Spectrum), a private utility locating service, to identify on-site underground lines and utilities. Spectrum marked underground utilities and/or other unknown underground metallic objects on December 9, 2002 and on December 18, 2002. Hart Crowser also contacted Underground Service Alert (Ticket Number A138845) at least 48 hours prior to the proposed work for the demarcation of underground utilities. Hart Crowser obtained the necessary permits for the installation of the permanent monitoring well from the Los Angeles County Department of Public Health Services - Well Permits Section.

4.2 Soil Sampling Activities

California Pacific Drilling (Cal Pac) of Calimesa, California, performed the subsurface drilling exploration. Cal Pac advanced and sampled twenty soil borings (BL-01 through BL-20) from December 10 to 18, 2002 and December 24, 2002. Soil boring locations are shown on Figure 4.

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Samples were collected and logged under the supervision of a California Registered Geologist (RG). Lithologic descriptions of the soil samples were recorded on boring logs using the Unified Soil Classification System (USCS). Soil boring logs are presented in Appendix C. The soil samples were collected at five-foot intervals starting at 0.5 feet bgs to 60 feet bgs. Soil samples were collected using an 18-inch long by 1.5- inch inside-diameter (ID) split-spoon soil sampler driven by a 140 pound-hammer with a 30-inch drop. Three California Brass Rings (CBRs) were inserted into the split-spoon to catch the soil samples. Soil samples to be analyzed for VOCs were sub-sampled using EnCore® samplers, in accordance with EPA Method 5035 and RWQCB requirements (Appendix A). The remaining sample sleeves were removed from the split spoon sampler, sealed with Teflon sheets and plastic caps, labeled, sealed, recorded on a chain-of-custody document, and stored in an ice-chilled cooler (4 degree Centigrade) pending transportation to a state-certified analytical laboratory. Excess soils were placed in a Ziploc® bag and sealed to be screened with a photoionization detector (PID). PID readings were taken on each sample and recorded on the soil boring logs.

Augers and down-hole soil sampling equipment were decontaminated in a self-contained decontamination trailer. Sampling equipment was decontaminated before the start of the project and between each soil boring location. Split spoon samplers and rings were decontaminated between each sample depth. Waste soil and decontamination water were stored in labeled, 55-gallon Department of Transportations (DOT) approved steel drums. Soil borings not converted to wells were filled up to the surface with a cement-bentonite grout and capped with concrete or asphalt.

4.3 Hydropunch, Temporary Well Installation and Grab Sampling

In order to collect additional groundwater quality data, nine borings were converted to temporary groundwater monitoring wells to collect grab groundwater samples for screening purposes. Initially, a Hydropunch® was used to collect a grab groundwater sample from soil borings BL-2 and BL-19. The Hydropunch® system utilizes a 4-foot by one inch diameter PVC screen. A groundwater sample could not be collected from BL-2 using the Hydropunch® system due to insufficient groundwater recharge. One grab groundwater sample was collected from a temporary well installed in soil boring BL-19. To facilitate the collection of the remaining grab groundwater samples from the soil borings, temporary wells were utilized.

The installation of the temporary wells consisted of drilling to a total depth of approximately 70 feet bgs and installing the temporary well casing and screen. The wells screen material consisted of 10-slot (0.010-inch) Schedule 40 PVC, and

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measured 2-inch ID by 10-foot long. The total depth of the temporary wells ranged from approximately 68 to 70 feet bgs. The augers were then pulled approximately 10-feet to allow groundwater to flow to the screen. Temporary well screens and well casings were decontaminated by steam cleaning methods prior to placement in the next soil boring.

New one-liter disposable polyethylene bailers were used to collect the grab groundwater samples from the temporary groundwater wells, once sufficient groundwater accumulated. The boreholes were backfilled with a cement bentonite grout. The grab groundwater samples from the Hydropunch® and temporary wells were labeled, sealed, and stored in an ice-chilled cooler (4 degree Centigrade) and transported to the laboratory. Each bailer and the bailer rope used to collect one groundwater sample per well were discarded.

4.4 Permanent Well Installation and Sampling

Well Installation and Well Development. One permanent monitoring well (MW-8) was installed in soil boring BL-17 drilled near the southwest corner of the Site on December 24, 2002. A well permit was obtained from the Los Angeles County Department of Health Services (DHS) and is presented in Appendix D. The well was installed to a total depth of approximately 69 feet bgs. Well materials include a 4-inch ID by 15-foot long 0.20 slot (0.020-inch) continuous wrap stainless steel screen. The riser material is 4-inch ID Schedule 40 PVC. The filter pack is a No.3 washed silica sand installed to a depth of 48 feet bgs with a hydrated bentonite seal completed to approximately 2 feet bgs. The remaining boring is filled with a concrete plug and steel well vault finished as a flush mounted surface completion. Well construction details are presented on the soil boring log for BL-17 in Appendix C. The well was developed on January 13, 2003 and a total of 55 gallons was purged from MW-8 using a combination of bailing to remove sediment and a decontaminated stainless steel submersible electric pump until pH, conductivity and temperature of the purged water stabilized.

Groundwater Sampling. The six on-site groundwater-monitoring wells (MW-3 through MW-8) were purged and sampled on January 17, 2003. Prior to sampling, each well was purged with a pre-cleaned submersible pump and attached tubing. Where purging using a pump was not successful (MW-3 and MW-4), the wells were purged with new dedicated disposable Teflon bailers. Monitoring wells MW-3 and MW-4 are 2-inch ID PVC well casings. The remaining wells are constructed with 4-inch ID PVC casings. Purging continued until temperature, pH, and electrical conductivity of the purged water stabilized. A minimum of three well casing volumes of water was purged from each well prior to collecting the samples. Once sufficient recharge occurred the wells

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were sampled on the same day. VOC samples were collected using quiescent sampling techniques and new-dedicated bailers. Each bailer was used once to collect the groundwater sample from the well and was discarded.

Two of the USGS wells (SWL-0029 and SWL-0031) located near the northeast corner of the Site could not be gauged to determine depth to groundwater or sampled due to a dedicated sampling pump system in the wells. Monitoring well SWL-0030 did not have a pump. Hart Crowser could not remove the equipment from the remaining two wells to gain access to the wells. Based on well construction data recorded on the well ID tag, the screen interval of the shallow well (SWL-0029) is 83 to 88 feet bgs. This well is screened in a deeper zone than anticipated and would not correspond to the other on-site wells.

The laboratory supplied new VOA containers. Each sample was labeled with the project name, number, location, date, time, and method of analyses. The groundwater was then transferred from the disposable bailer to the sample containers, recorded on a chain-of-custody document, and placed in cold storage pending delivery to the laboratory. A field duplicate sample was collected for quality assurance and quality control (QA/QC) from MW-8. The duplicate was submitted to the laboratory for analysis with the other samples.

The laboratory-supplied trip blank was shipped in the same cooler to the laboratory. Purged groundwater, generated during sampling activities, was contained in 55-gallon drums and stored on Site.

The pumps used for purging the wells and the water level probe were decontaminated with a non-phosphate detergent (Liquinox) and de-ionized water solution and then triple rinsed with deionized water prior to use between wells.

4.5 Surveying Activities

Once the field activities were completed, Dulin and Boynton a licensed California surveyor of Signal Hill, California, provided a land survey map of buildings, applicable sampling locations and monitoring wells. Dulin and Boynton completed the survey on January 17, 2003. The survey data for soil borings and monitoring wells are presented in Appendix E.

4.6 Static Water Level Measurements

The depth to water level from top of casing was measured and recorded on February 18, 2003 for all of the wells on the Site (Table 1). Three Environmental Protection Agency (EPA) wells (SWL-0031, SWL-0030, and SWL-0029) are

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located on the northeastern portion of the Site. SWL-0031 was gauged and the total depth of the well was approximately 150 feet bgs. The two southernmost EPA wells were inaccessible as discussed in Section 4.4; therefore, Hart Crowser was unable to gauge or sample these wells. Hart Crowser measured the water levels in the on-site wells prior to sampling activities. The water level measurements were collected using an electronic water level probe. The measurements were recorded to an accuracy of 0.01 feet, to a marking on the top of the PVC well casing.

4.7 Investigation Derived Waste

Investigation derived waste (IDW) generated during this field investigation consisted of soil cuttings, purge water and decontamination water. IDW was placed in 55-gallon 17H DOT-approved drums, labeled and stored on-site pending profiling and disposal. Once analytical results were reviewed, the IDW was disposed of according to State and Federal requirements.

5.0 ANALYTICAL PROGRAM

Twelve soil samples were collected from each of the 60-foot borings. The samples were submitted to an analytical laboratory under standard chain-of-custody protocols. Organic vapor headspace readings were made. The soil sample was placed in a new Ziploc plastic bag and allowed to equilibrate for at least a half-hour. Subsequently the headspace was measured using a photoionization detector (PID).

A total of 70 soil samples were selected for VOC analysis by EPA Method 8260B based on visual observations of the cuttings, PID readings, and the potential depth of soil closure. Twelve soil samples were selected to be analyzed for SVOCs by EPA 8270 and a total of 12 corresponding soil samples were selected for analysis of PCBs and pesticides by EPA Method 8080. A total of six samples were selected for TRPH by EPA Method 418.1 and a total of seven samples by EPA 6010B/7000 for Title 22 Metals. American Analytics of Chatsworth, California, a State certified laboratory was used to analyze the samples.

Groundwater samples collected from the temporary and permanent wells were analyzed for VOCs by EPA Method 8260B.

The laboratory data sheets are presented in Appendix F.

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6.0 FINDINGS

Field observations and analytical soil and groundwater results are presented in the following sections.

6.1 Soil and Groundwater Description

Soil encountered were described as fine, moist, silty sand to medium- to coarse-grained sand with interbedded silty clay and clayey silt layers. A distinct marker bed containing shell fragments was located at approximately 40 to 45 feet bgs in most of the soil borings. The marker bed appeared to be relatively horizontal across the site. The thickness of this marker bed was undetermined. A medium sand bed was encountered in most soil borings where groundwater was first detected. As Figures 10, 11 and 12 show, this sand layer appears to dip toward the east, where it was encountered at greater depths than along the west property line.

On February 18, 2003, the static groundwater elevation ranged from -13.88 feet MSL in monitoring well MW-3, to -14.28 feet MSL in monitoring well MW-8. The approximate groundwater flow direction was determined to be towards the southwest with an approximate gradient of 0.002 (ft/ft).

6.2 Soil Analytical Results

Soil analytical results are summarized in Table 2 and are presented on several figures: Figures 5 through 9 and on three cross-sections A-A', B-B' and C-C', Figures 10 through 12. A summary of findings follows.

6.2.1 Metals

Seven soil samples were selected for analysis of Title 22 metals. These samples were collected from soil borings BL-1, BL-2, BL-8, BL-16, and BL-18 at 1/2-foot bgs. Low concentrations of metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, vanadium, and zinc) were indicated in most of the samples analyzed. Concentrations above the laboratory practical quantitation limits (PQLs) ranged from 0.081 mg/kg for mercury to 130 mg/kg for barium.

6.2.2 PCBs

Soil samples collected from borings BL-7, BL-12 at 5 feet bgs, BL-16 at 30 feet bgs, BL-18, BL-20 at 35 feet bgs, and BL-1, BL-2, BL-3, BL-4, BL-6, at 40 feet bgs

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were analyzed for PCBs. Samples analyzed for PCBs were below the laboratory PQL of 100 µg/kg.

6.2.3 TRPH

Soil samples collected from borings BL-1, BL-2, BL-3, BL-4, BL-7, and BL-16 at 5 feet bgs were analyzed for TRPH. Samples collected from borings BL-3 and BL-7 indicated TRPH concentrations of 55 mg/kg and 64 mg/kg respectively. All other samples analyzed for TRPH were less than the laboratory PQL of 5 mg/kg.

6.2.4 SVOCs

Selected soil samples collected from borings BL-1, BL-2, BL-3, BL-4, BL-5, BL-7, BL-12, BL-16, BL-18, BL-19, and BL-20 were analyzed for SVOCs. Soil samples analyzed for SVOCs were not detected (ND) above the laboratory PQLs.

6.2.5 VOCs

Selected soil samples collected from borings BL-1 through BL-20 were analyzed for VOCs at multiple depths. VOC analysis indicated detectable concentrations of the COCs; PCE and TCE. A summary of VOC analytical results that have exceeded preliminary remediation goals (PRG's) is presented on Figure 5.

Low concentrations of benzene were detected above the laboratory PQLs in six samples from soil borings BL-1, BL-2, BL-3 and BL-4 located in the northwest corner of the Site. The concentrations of benzene detected in the soils were generally detected in soil just above the groundwater table and may be due to capillary effects.

Elevated concentrations of cis–1, 2–DCE were detected above the PQL, ranged from 5.1 µg/kg to 450 µg/kg. The highest cis–1, 2–DCE concentration of 450 µg/kg was indicated in boring BL-5 at 55 feet bgs.

Elevated concentrations of PCE were detectable above the PQL, ranged from 7.4 µg/kg to 29,000 µg/kg. The highest PCE concentration of 29,000 µg/kg was detected in boring BL-6 at 10 feet bgs.

Elevated concentrations of TCE were detected above the PQL, ranged from 5.2 µg/kg to 3,100 µg/kg. The highest TCE concentration of 3,100 µg/kg was indicated in boring BL-1 at 60 feet bgs, which is the depth at which groundwater occurs in this boring. A summary of soil analytical results is presented in Table 2.

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6.3 *Groundwater Results*

The analytical grab groundwater results collected from the temporary wells are summarized in Table 3. The analytical groundwater results collected from the permanent monitoring wells are summarized in Table 4. The groundwater elevation relative to MSL is presented on Figure 13 illustrating an approximate groundwater flow direction to the southwest. Figure 14 presents a summary of VOCs that have exceeded Primary Maximum Contaminant Levels (MCLs) in groundwater from samples collected from the temporary and permanent wells.

6.3.1 Temporary Well Analytical Results

Grab groundwater samples were collected from borings BL-5, BL-7, BL-9, BL-11, BL-12, BL-14, BL-19, and BL-20. All grab groundwater samples collected from temporary wells were analyzed for VOCs by EPA Method 8260B. Detectable VOC concentrations above the PQL were indicated in the groundwater samples collected from each temporary well, as summarized in Table 3.

Detected concentrations of benzene above the PQL and above the MCL of 1 µg/L were indicated in groundwater samples collected from borings BL-9, BL-11, and BL-12 at concentrations of 22 µg/L, 8 µg/L, and 21 µg/L respectively. The range of benzene contamination found in these three temporary groundwater wells on site matches the expected distribution of benzene contamination identified by EPA in the Record of Decision for the Dual Site Groundwater Operable Unit. This benzene distribution is depicted in Figure 7-3 of the ROD, as presented in [Appendix B of this report]. Figure 7-4 of the EPA Record of Decision of March 1999 [Appendix B of this report], shows the benzene spatial distribution relative to TCE in the groundwater. As the figure depicts, high concentrations of benzene and TCE overlap and commingle with other contamination in the groundwater.

Elevated concentrations of Cis-1, 2-DCE above the MCL of 6 µg/L ranged from 65 µg/L to 3,800 µg/L. Cis-1, 2-DCE concentrations of 1.500 µg/L, 1,800 µg/L, 2,900 µg/L, 3,100 µg/L, 3,200 µg/L, and 3,800 µg/L were detected in groundwater collected from borings BL-9, BL-11, BL-12, BL-18, BL-5, and BL-7 respectively.

Elevated PCE concentrations detected above the PQL and above the MCL of 5 µg/Lin groundwater samples collected from each of the temporary wells ranged from 1,200 µg/L to 8,100 µg/L in BL-14 and BL-9, respectively.

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Elevated TCE concentrations detected above the PQL and above the MCL of 5 µg/Lin groundwater samples collected from each of the temporary wells ranged from 2,200 µg/L to 17,000 µg/L in BL-19 and BL-9, respectively.

6.3.2 Monitoring Well Analytical Results

Groundwater samples were collected from monitoring wells MW-3, MW-4, MW-5, MW-6, MW-7, and MW-8. Groundwater samples collected from the six monitoring wells were analyzed for VOCs by EPA Method 8260B. A total of 9 VOCs were detected in the groundwater samples ranging in concentrations from 6 to 46,000 µg/L. Detectable VOC concentrations above the PQL were indicated in the groundwater samples collected from each monitoring well and are summarized in Table 4. Historical data trends for the wells are also presented in Table 4.

Elevated PCE concentrations above the PQL and the MCL were detected in groundwater samples collected from each monitoring well. Detected PCE concentrations ranged from 250 µg/L to 12,000 µg/L in monitoring wells MW-8 and MW-5, respectively.

Elevated TCE concentrations above the PQL and the MCL were detected in groundwater samples collected from each monitoring well. Detected TCE concentrations ranged from 740 µg/L to 46,000 µg/L in monitoring wells MW-8 and MW-5, respectively.

7.0 DISCUSSION / CONCLUSIONS

7.1 Soil

- Generally the soils encountered were described as fine, moist, silty sands, interbedded silty clay and clayey silt layers. A medium sand bed was generally encountered in most soil borings where groundwater was first detected at approximately 60 feet bgs.

- Concentrations of metals (arsenic, barium, beryllium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, vanadium, and zinc) were indicated but are below preliminary remediation goals (PRGs). Although arsenic was detected above the cancer-endpoint concentration, concentrations detected across the site are within the range typical of southern California and appear to be background levels.

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- Low concentrations (55 to 64 mg/kg) of TRPH were detected in only two samples. These concentrations are below concentrations requiring remediation.

- PCBs and SVOCs were not detected above the laboratory PQLs, and are not a concern at this Site.

- Soil samples collected and analyzed from boring BL-6 at 10 feet bgs indicated elevated levels of a range of chemicals. These compounds appear to be confined to the shallow subsurface at this location, since they were generally not present in the 25-foot and deeper (vadose-zone) samples.

- Other than location BL-6, only PCE and TCE were detected in Site soils above PRGs for industrial soils. Most of the VOCs detected were below their respective Industrial PRGs. Exceedence of PRGs occurred in Borings BL-1 through BL-4, located in the northwest section of the property. The other locations where exceedence of PRGs occurred were at BL-19 and BL-20, in the northeast corner of the Site, and BL-6.

- Elevated concentration of VOCs detected in the deeper soil samples collected at depths of 50 feet or more may be affected by high concentrations of VOCs in the groundwater due to capillary forces.

In summary, based on the analytical data collected during this phase of the investigation, concentrations of TCE in the Site soil above industrial PRG are present in the northwest corner of the site where ASTs were previously located, and where Borings BL-1 through BL-4 were drilled. Some VOC concentrations above PRGs were also encountered in the northeast corner of the site in BL-19 and BL-20 and in shallow soil near the former clarifier, where Boring BL-6 was drilled.

7.2 Groundwater

Static groundwater levels ranged from approximately 56 to 58 feet bgs. The approximate groundwater flow direction is towards the southwest with an approximate gradient of 0.002 ft/ft.

Groundwater concentrations of VOCs in general and the site indicator chemicals, TCE and PCE in particular, are consistent with earlier rounds of sampling in 1995, 1998, and 2000. Benzene concentrations in groundwater are identical to the concentrations identified by EPA in their ROD of March 1999 for the Montrose and Del Amo Superfund site.

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The data continues to show that groundwater at the site is impacted by chlorinated VOCs. Elevated concentrations of PCE and TCE along the north and northeast property lines suggests that contamination is coming onto the site from these directions.

The groundwater beneath the Trico Torrance site is within the TI waiver zone established for the Montrose and Del Amo Superfund sites and potential response actions are therefore limited. According to the EPA, it is technically impracticable to attain ISGS levels inside the containment zone, because the NAPL continues to dissolve into groundwater. Further, the amount of **time for all NAPL to be dissolved** so that NAPL isolation is no longer necessary is uncertain, and EPA's estimate of the cleanup duration for this **is "indefinite"**. For sites outside the containment zone (TI waiver zone), the **time to achieve reduction of the plume** is likely to be on the **order of a century**."

Groundwater monitoring at any site within the TI Waiver zone will not provide useful data for guidance of any specific remedial action. Therefore no further groundwater monitoring is recommended.

8.0 LIMITATIONS

The report has been prepared for the exclusive use of PACCAR Inc for submittal to the RWQCB as it pertains to the property located at 1206 West 196th Street in Torrance, California. All work will be conducted under the direct supervision of a California Registered Geologist or Engineer and per RWQCB guidelines. Our services will be performed in accordance with generally accepted professional practices, related to the nature of the work accomplished, in the same or similar localities, at the time the services are performed, and under the terms and conditions of the existing contract between PACCAR and Hart Crowser.

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9.0 REFERENCES

Dames and Moore, 1998, Final Groundwater Remedial Investigation Report, Del Amo Study Area, Volume I, May 15.

Department of Conservation, Division of Mines and Geology, Seismic Hazard Evaluation of the Torrance 7.5-Minute Quadrangle, Los Angeles County, California, 1998.

Department of Water Resources, Bulletin No. 104 Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, June 1961.

Hart Crowser, Inc., 1995. Preliminary Environmental Site Assessment at the Former Trico Industries, Inc., Facility 1206 West 196th Street, Torrance, California. Project No. 6756. April 4.

Hart Crowser, Inc., 1998a. Data Summary for Paccar, Inc., Torrance Facility. Project No. 6830. August 27.

Hart Crowser, Inc., 1998b. Draft Report of Groundwater Sampling, 1206 West 196th Street, Torrance, California. Project No. 6830. September 23.

Hart Crowser, Inc., 2000. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 6830. March.

Hart Crowser, Inc., 2000c. Draft Phase II Investigation Report. 1206 West 196th Street, Torrance, California. Project No. 6905. November.

Hart Crowser, Inc., 2000d. Revised Work Plan for Supplemental Site Investigation. 1206 West 196th Street, Torrance, California. Project No. 6999.06. June 12, 2002.

SCS Engineers (SCS), 1987, Preliminary Draft Report for Additional Site Investigation at the at the TRICO Industries Facility. 19706 Normandie Avenue, Torrance, California.

USEPA, 1999. Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume I. March 1999.

United States Geological Survey, 1964. Topographic Map for the Torrance Quadrangle, 7.5-Minute Map, photorevised, 1981

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Tables

TABLES

Table 1
Survey and Groundwater Elevation Data
Former Trico Facility, January 2003

Well/Boring	Northing (feet)	Easting (feet)	Casing Elevation (feet)	Depth to Groundwater (2/18/2003) (feet)	Groundwater Elevation (2/18/2003) (feet msl)
MW-3	1769023.2	6471344.7	43.84	57.72	-13.88
MW-4	1768813.7	6471373.0	42.59	56.64	-14.05
MW-5	1768908.8	6471321.9	43.14	57.17	-14.03
MW-6	1768788.4	6471263.8	43.22	57.34	-14.12
MW-7	1768659.7	6471442.6	41.42	55.59	-14.17
MW-8	1768708.2	6471251.4	42.33	56.61	-14.28

Notes:
Benchmark data:

Vertical Datum NGVD 29

Los Angeles City BM #02290 USC&GS Monument 2 feet W OF W curb Normandie Avenue, 101f South of center line prod Knox Street, 11 feet South of PP #575840H, 0.05 mile NLY from 196th Street, Disc not stamped.

1985 Elevation= 47.247 feet NGVD29

Horizontal Datum NAD83

NGS PID Stations AI4484 and AJ1853 Epoch Date 2000.35 NAD83

Date of survey: January 17,2003.
Survey completed by Dulin and Boynton Licensed Surveyors, Inc. of Signal Hill, California.

DRAFT
Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

			Analyte																												
			VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																												
								Chloroform[1]						1,1-Dichloroethane																	
	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Buthylbenzene)	sec-Butylbenzene	PRG	CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	PRG	CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		6[*]	1,300	NA	240,000	220,000	1.2[*]	2,000	3.7[*]	7,900	600	150,000	4.1[*]	1.7[*]	6,000	NA	520	NA	20,000	21,000	190,000	2.4[*]	3,400	5.2[*]	220,000	3.8[*]	1,600	1.2[*]	170,000	70,000	110	NA	NA
BL-1	0.5	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-1	5	12/10/02	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-1	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-1	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	11	<2	<5	<5	<5	<5	<5	<5	9.7	<2	<2
BL-1	30	12/10/02	<50	<2	<50	<5	<5	15		24	12	11	32	<5	<5		<10	<5	<50	<2	110	<10	<5	500	<2	<5	<5	<5	<5	<5	<5	570	<2	<2
BL-1	40	12/10/02	<50	<2	<50	<5	<5	19		34	19	14	41	<5	<5		<10	<5	<50	<2	130	<10	<5	630	<2	<5	<5	<5	<5	<5	<5	680	<2	<2
BL-1	50	12/10/02	<50	<2	<50	<5	<5	8.5		30	16	6.6	19	<5	<5		<10	<5	<50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	<5	250	<2	<2
BL-1	55	12/10/02	<50	<2	<50	<5	<5	14		21	7.4	13	27	<5	<5		<10	<5	<50	<2	150	<10	<5	370	<2	<5	<5	<5	<5	<5	<5	500	<2	<2
BL-1	60	12/10/02	<50	3.6	<50	<5	<5	18		6.5	<5	<5	47	<5	<5		<10	<5	<50	<2	<50	<10	<5	1700	<2	<5	<5	<5	<5	<5	<5	3100	<2	<2
BL-2	0.5	12/10/02	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-2	5	12/10/02	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-2	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	100	<2	<2
BL-2	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	76	<2	<5	<5	<5	<5	<5	<5	100	<2	<2
BL-2	30	12/10/02	<50	<2	<50	<5	<5	13		5.8	<5	<5	24	<5	<5		<10	<5	<50	<2	<50	<10	<5	350	<2	<5	<5	<5	<5	<5	<5	440	<2	<2
BL-2	40	12/10/02	<50	2.6	<50	<5	<5	33		11	9.3	<5	43	<5	<5		<10	<5	<50	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	<5	660	<2	<2
BL-2	50	12/10/02	<50	<2	<50	<5	<5	14		6.0	<5	<5	27	<5	<5		<10	<5	<50	<2	<50	<10	<5	530	<2	<5	<5	<5	<5	<5	<5	800	<2	<2
BL-2	55	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	180	<2	<2
BL-2	60	12/10/02	<50	<2	<50	<5	<5	9		6.3	<5	<5	16	<5	<5		<10	<5	<50	<2	<50	<10	<5	390	<2	<5	<5	<5	<5	<5	<5	510	<2	<2
BL-3	5	12/10/02	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-3	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	160	<2	<5	<5	<5	<5	<5	<5	240	<2	<2
BL-3	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.3	<5	<5		<10	<5	<50	<2	<50	<10	<5	280	<2	<5	<5	<5	<5	<5	<5	370	<2	<2
BL-3	30	12/10/02	<50	<2	<50	<5	<5	11		5.9	<5	<5	29	<5	<5		<10	<5	<50	<2	<50	<10	<5	310	<2	<5	<5	<5	<5	<5	<5	450	<2	<2
BL-3	40	12/10/02	<50	<2	<50	<5	<5	7.8		7.0	<5	<5	20	<5	<5		<10	<5	<50	<2	<50	<10	<5	340	<2	<5	<5	<5	<5	<5	<5	390	<2	<2
BL-3	50	12/10/02	<50	5.8	<50	<5	<5	27		11	6.9	<5	57	<5	<5		<10	<5	<50	<2	53	<10	<5	860	<2	<5	<5	<5	<5	<5	<5	1500	<2	<2
BL-3	60	12/10/02	<50	5.2	<50	<5	<5	26		12	7.5	6.8	53	<5	<5		<10	<5	<50	<2	100	<10	<5	370	<2	<5	<5	<5	<5	<5	<5	700	<2	<2

DRAFT
Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

	Sample Depth (feet bgs)	Date Sampled	Analyte: VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																												
			Acetone	Benzene	2-Butanone	Butylbenzene (n-Buthylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichoroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		6[*]	1,300	NA	240,000	220,000	1.2[**]	2,000	3.7[*]	7,900	600	150,000	4.1[**]	1.7[**]	6,000	NA	520[*]	NA	20,000	21,000	190,000	2.4[**]	3,400	5.2[**]	220,000	3.9[**]	1,600	1.2[**]	170,000	70,000	110	NA	NA
BL-4	5	12/10/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-4	10	12/10/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	<5	65	<2	<2
BL-4	20	12/10/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	35	<2	<5	<5	<5	<5	<5	<5	33	<2	<2
BL-4	30	12/10/02	<50	3.4	<50	<5	<5	17	5.9	<5	<5	34	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	280	<2	<2
BL-4	40	12/10/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	20	<5	<5	<5	<5	<10	<5	<50	<2	67	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	180	<2	<2
BL-4	45	12/10/02	<50	<2	<50	<5	<5	5.9	<5	<5	<5	24	<5	<5	<5	<5	<10	<5	<50	<2	<5	<10	<5	280	<2	<5	<5	<5	<5	<5	<5	210	<2	<2
BL-4	50	12/10/02	<50	2.1	<50	<5	<5	19	18	12	11	60	<5	<5	<5	<5	<10	<5	<50	<2	140	<10	<5	890	<2	<5	<5	<5	<5	<5	<5	1000	<2	<2
BL-4	60	12/10/02	<50	<2	<50	<5	<5	9.3	<5	<5	<5	32	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	<5	710	<2	<2
BL-5	0.5	12/16/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	260	<2	<5	<5	<5	<5	<5	<5	65	<2	<2
BL-5	35	12/16/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	6.7	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5.2	<2	<2
BL-5	55	12/16/02	<50	<2	<50	<5	<5	25	<5	<5	<5	450	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	520	<2	<5	<5	<5	<5	<5	<5	850	<2	<2
BL-6	10	12/13/02	6400	<20	12000	11000	9800	<50	<50	<5	<50	<5	<50	<50	10000	3300	1900	8000	<500	10000	8800	29000	4800	9800	620	<50	<50	85000	27000	1500	74000	31000		
BL-6	25	12/13/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	8.4	<5	<5	<10	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	<5	12	<2	<2		
BL-6	40	12/13/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	35	<5	<5	<10	<5	<50	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	<5	21	<2	<2		
BL-6	50	12/13/02	<50	<2	<50	<5	<5	34	<5	<5	<5	260	<5	<5	<10	<5	<50	<2	<50	13	<5	250	<2	<5	<5	<5	<5	8.9	<5	520	<2	<2		
BL-7	5	12/16/02	<50	<2	<50	15	16	<5	<5	<5	<5	<5	<5	<5	<10	150	<50	<2	<50	<10	280	<5	<2	16	<5	<5	<5	<5	<5	<5	<2	<2		
BL-7	15	12/16/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2		
BL-7	45	12/16/02	<50	<2	<50	<5	<5	9.7	<5	<5	<5	88	<5	<5	<10	<5	<50	<2	<50	<10	<5	68	<2	<5	<5	<5	<5	<5	<5	260	<2	<2		
BL-7	50	12/16/02	<50	<2	<50	<5	<5	18	<5	<5	<5	100	5.7	<5	<10	<5	<50	<2	<50	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	730	<2	<2		
BL-8	0.5	12/13//02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2		
BL-8	10	12/13/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2		
BL-8	20	12/13/02	<50	<2	<50	<5	<5	<5	<5	<5	<5	5.2	<5	<5	<10	<5	<50	<2	<50	<10	<5	26	<2	<5	<5	<5	<5	<5	<5	27	<2	<2		

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Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

			Analyte																													
			VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																													
								Chloroform[1]						1,1-Dichloroethane																		
	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Buthylbenzene)	sec-Butylbenzene	PRG	CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichoroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	PRG	CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
U.S. EPA region 9 PRGs dated 10/01/02	Industrial Soil		1.6[*]	1,300	NA	240,000	220,000	1.2[*]	2,000	3.7[*]	7,900	600	150,000	4.1[*]	1.7[*]	6,000	NA	520	NA	20,000	21,000	190,000	2.4[*]	3,400	5.2[*]	220,000	3.8[*]	1,600	1.2[*]	170,000	70,000	110	NA	NA
BL-9	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-9	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-9	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**8.3**	<2	<2
BL-9	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**9.6**	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**36**	<2	<2
BL-9	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**11**	<5	<5		<10	<5	<50	<2	<50	<10	<5	**20**	<2	<5	<5	<5	<5	<5	<5	**76**	<2	<2
BL-10	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-10	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	[illegible]	[illegible]	
BL-11	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**5.8**	<2	<2
BL-11	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-11	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-11	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**11**	**6.7**	<5		<10	<5	<50	<2	<50	<10	<5	**10**	<2	<5	<5	<5	<5	<5	<5	**51**	<2	<2
BL-11	35	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**6.9**	<2	<2
BL-11	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**8.1**	**10**	**6.2**		<10	<5	<50	<2	<50	<10	<5	**13**	<2	<5	<5	<5	<5	<5	<5	**79**	<2	<2
BL-11	60	12/17/02	<50	<2	<50	<5	<5	**6.2**		<5	<5	<5	**72**	<5	<5		<10	<5	<50	<2	<50	<10	<5	**110**	<2	<5	<5	<5	<5	<5	<5	**430**	<2	<2
BL-12	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-12	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-12	20	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**5.9**	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**13**	<2	<2
BL-12	30	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**32**	<5	<5		<10	<5	<50	<2	<50	<10	<5	**11**	<2	<5	<5	<5	<5	<5	<5	**70**	<2	<2
BL-12	40	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**7.7**	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**75**	<2	<2
BL-12	55	12/17/02	<50	<2	<50	<5	<5	**19**		<5	<5	<5	**370**	**7.5**	<5		<10	<5	<50	<2	<50	<10	<5	**490**	<2	<5	<5	<5	<5	<5	<5	**1300**	<2	<2
BL-12	60DUP	12/17/02	<50	<2	<50	<5	<5	**23**		<5	<5	<5	**380**	**10**	<5		<10	<5	<50	<2	<50	<10	<5	**720**	<2	<5	<5	<5	<5	<5	<5	**2200**	<2	<2
BL-13	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-13	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	**16**	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	**45**	<2	<2
BL-13	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2

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Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Buthylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichoroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
			Analyte																															
			VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																															
U.S. EPA Region 9 PRGs dated 10/01/02 Industrial Soil			6[a]	1,300	NA	240,000	220,000	1.2[a]	2,000	3.7[a]	7,900	600	150,000	4.1[a]	1.7[a]	5,000	NA	520	NA	20,000	21,000	190,000	2.4[a]	3,400	5.2[a]	220,000	3.9[a]	1,600	1.2[a]	170,000	70,000	110	NA	NA
BL-14	5	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	8.1	<2	<2
BL-14	10	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-14	20	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	<5	<5		<10	<5	<50	<2	<50	<10	<5	8.9	<2	<5	<5	<5	<5	<5	<5	47	<2	<2
BL-14	30	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-14	40	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	16	<2	<2
BL-14	50	12/18/02	<50	<2	<50	<5	<5	8.3		<5	<5	<5	92	21	<5		<10	<5	<50	<2	<50	<10	<5	77	<2	<5	<5	<5	<5	<5	<5	320	<2	<2
BL-15	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	7.8		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	12	<5	<5	6.1	<2	<5
BL-15	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	6.2		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-15	50	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	6.1	<5	130	290		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	120	<5	<5	24	<2	<5
BL-15	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	240	380		<10	<5	<50	<2	<50	<10	<5	9.1	<2	<5	<5	<5	66	<5	<5	37	<2	<5
BL-16	0.5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	69	<2	<5	<5	<5	<5	<5	<5	34	<2	<5
BL-16	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	<5	19	<2	<5
BL-16	10	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.1	<5	<5		<10	<5	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	<5	34	<2	<5
BL-16	20	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	<5	29	<2	<5
BL-16	30	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	<5	8.6	<2	<5
BL-16	40	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	7.4	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-16	50	12/11/02	<50	<2	<50	<5	<5	6.1		<5	<5	<5	20	<5	<5		<10	<5	<50	<2	<50	<10	<5	320	<2	<5	<5	<5	<5	<5	<5	470	<2	<5

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Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
			Analyte																															
			VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																															
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		6[N]	1,300	NA	240,000	220,000	12[M]	2,000	17[C]	7,900	800	350,000	4.1[C]	1.7[N]	6,000	NA[C]	520	NA	20,900	21,000	190,000	2.4[C]	5,400	5.2[C]	220,000	3.9[C]	1,600	1.2[N]	170,000	70,900	110	NA	NA
BL-17	5	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-17	10	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	8.1	<2	<5	<5	<5	<5	<5	<5	9.9	<2	<5
BL-17	10DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5.9	<2	<5
BL-17	20	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	<5	20	<2	<5
BL-17	20DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	33	<2	<5	<5	<5	<5	<5	<5	43	<2	<5
BL-17	30	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	31	<2	<5	<5	<5	<5	<5	<5	50	<2	<5
BL-17	30DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	<5	48	<2	<5
BL-17	40	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	29	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	66	<5	<5		<10	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	<5	25	<2	<5
BL-18	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	180	<5	<5		<10	<5	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	<5	53	<2	<5
BL-18	45	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	50	<5	<5		<10	<5	<50	<2	<50	<10	<5	13	<2	<5	<5	<5	<5	<5	<5	29	<2	<5
BL-19	0.5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	270	<2	<5	<5	<5	<5	<5	<5	38	<2	<5
BL-19	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	<5	14	<2	<5
BL-19	15	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	7.1	<5	<5		<10	<5	<50	<2	<50	<10	<5	96	<2	<5	<5	<5	<5	<5	<5	48	<2	<5
BL-19	25	12/11/02	<50	<2	<50	<5	<5	11		<5	<5	<5	43	<5	<5		<10	<5	<50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	<5	200	<2	<5
BL-19	35	12/11/02	<50	<2	<50	<5	<5	12		<5	<5	<5	74	<5	<5		<10	<5	<50	<2	<50	<10	<5	540	<2	<5	<5	<5	<5	<5	<5	310	<2	<5
BL-19	45	12/11/02	<50	<2	<50	<5	<5	19		<5	<5	<5	110	<5	<5		<10	<5	<50	<2	<50	<10	<5	410	<2	<5	<5	8.3	<5	<5	<5	520	<2	<5
BL-19	55	12/11/02	<50	<2	<50	<5	<5	21		<5	<5	<5	130	<5	<5		<10	<5	<50	<2	<50	<10	<5	820	<2	<5	<5	<5	<5	<5	<5	890	<2	<5

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Table 2
Summary of Soil Analytical Results
Former Trico Facility
Torrance, CA

	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Buthylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichoroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	O-Xylene
			Analyte																															
			VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																															
U.S. EPA Region 9 PRGs dated 10/01/02 Industrial Soil			6[*]	1,300	NA	240,000	220,000	1.2[**]	2,000	3.7[**]	7,900	600	150,000	4.1[*]	1.7[**]	6,000	NA	520	NA	20,000	21,000	190,000	2.4[*]	3,400	5.2[**]	220,000	3.9[**]	1,600	1.2[**]	170,000	70,000	110	NA	NA
BL-20	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	18	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	10	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	36	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	330	<5	<5		<10	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	<5	38	<2	<5
BL-20	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	270	<5	<5		<10	<5	<50	<2	<50	<10	<5	57	<2	<5	<5	<5	<5	<5	<5	35	<2	<5
BL-20	50	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1400	<5	<5		<10	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	<5	360	<2	<5
BL-20	55	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1000	<5	<5		<10	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	<5	420	<2	<5

Notes

SB - Soil Boring

- Not Detected above the practical quantitation limit (PQL)

VOCs - Volatile Organic Compous
SVOCs - Semi Volatile Organic Compous
TPH- CC - Total Petroleum Hydrocarbon - Carbon Chain Analysis
g/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
bgs - below ground surface
-- = Sample not analyzed
NA = not applicable

Table 2
Summary of Soil Analytical Data

	Sample Depth (feet bgs)	Date Sampled	Analyte																		
			SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)															
						Arsenic							Lead								
						non cancer endpoint	cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	PRG	CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		NA	0.74	NA	260	1.6	6.7E+04	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-1	0.5	12/10/02	–	–	–	4.2		120	<1	17	6.6	23	4.4		–	<5	10	<0.5	1.1	37	53
BL-1	5	12/10/02	–	–	<5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	10	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	20	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	30	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	40	12/10/02	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	50	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	55	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	60	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	0.5	12/10/02	–	–	–	2.2		98	<1	16	10	15	5		–	<5	7.3	<0.5	<1	35	37
BL-2	5	12/10/02	–	–	<5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	10	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	20	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	30	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	40	12/10/02	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	50	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	55	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	60	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	5	12/10/02		–	55	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	10	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	20	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	30	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	40	12/10/02	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	50	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	60	12/10/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

Table 2
Summary of Soil Analytical Data

			Analyte																		
						Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)															
						Arsenic							Lead								
	Sample Depth (feet bgs)	Date Sampled	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	non cancer endpoint	cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	PRG	CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		NA	0.74	NA	260	1.6	6.7E+04	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-4	5	12/10/02	--	--	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	10	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	20	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	30	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	40	12/10/02	ND	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	45	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	50	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-4	60	12/10/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-5	0.5	12/16/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-5	35	12/16/02	ND	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-5	55	12/16/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-6	10	12/13/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-6	25	12/13/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-6	40	12/13/02	ND	<100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-6	50	12/13/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-7	5	12/16/02	ND	<100	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-7	15	12/16/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-7	45	12/16/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-7	50	12/16/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-8	0.5	12/13//02	--	--	--	1.9	110	<1	15	7.9	16	4.9	--	<5	8.2	<0.5	<1	32	38		
BL-8	10	12/13/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-8	20	12/13/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2
Summary of Soil Analytical Data

	Sample Depth (feet bgs)	Date Sampled	Analyte																		
						Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)															
			SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	Arsenic		Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead		Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
						non cancer endpoint	cancer endpoint						PRG	CAL-Modified PRG							
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		NA	0.74	NA	250	1.6	6.7E+04	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-14	5	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-14	10	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-14	20	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-14	30	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-14	40	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-14	50	12/18/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	0.5	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	5	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	15	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	25	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	35	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	50	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-15	55	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	0.5	12/11/02	–	–	–	2.8		91		20	12	21	5.6		0.081	<5	14	<0.5	<1	42	63
BL-16	5	12/11/02	–	–	<5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	10	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	20	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	30	12/11/02	ND	<100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	40	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-16	50	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Table 2
Summary of Soil Analytical Data

			Analyte																			
						Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)																
						Arsenic							Lead									
	Sample Depth (feet bgs)	Date Sampled	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	Non cancer endpoint	Cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	PRG	CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		NA	0.74	NA	260	1.6	6.7E+04	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-20	0.5	12/12/02	–	–	–	**3**		**130**	**1.1**	**24**	**9.9**	**19**	**6.4**		–	<5	**13**	**0.78**	**1.3**	**50**	**52**
BL-20	5	12/12/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	10	12/12/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	25	12/12/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	35	12/12/02	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	50	12/12/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	55	12/12/02	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

Notes

SB - Soil Boring

< - Not Detected above the practical

VOCs - Volatile Organic Compous
SVOCs - Semi Volatile Organic Com
TPH- CC - Total Petroleum Hydrocar
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
bgs - below ground surface
-- = Sample not analyzed
200 - Bold numbers show values abc
NA = not applicable
- concentrations above

Table 2
Summary of Soil Analytical Data

	Sample Depth (feet bgs)	Date Sampled	Analyte																	
						Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)														
			SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	Arsenic							Lead							
						Non cancer endpoint	Cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	PRG	CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		NA	0.74	NA	250	1.6	6.7E+04	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-17	5	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	10	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	10DUP	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	20	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	20DUP	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	30	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	30DUP	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-17	40	12/24/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	0.5	12/12/02	–	–	–	3.1		110	1.1	25	9.6	17	6.7	–	<5	12	<0.5	1.1	51	62
BL-18	5	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	15	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	25	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	35	12/12/02	ND	<100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	45	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-18	55	12/12/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	0.5	12/11/02	–	–	–	2.1		110	<1	16	10	16	5.1	–	<5	9.1	<0.5	<1	33	39
BL-19	5	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	15	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	25	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	35	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	45	12/11/02	ND	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-19	55	12/11/02	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Table 3
Summary of Temporary Groundwater Well Analytical Results

Boring Location	Date Sampled	Analyte																		
		VOCs by USEPA 8260B (Results in ug/L)																		
		Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichoroethene	1,2-Dichoroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	1,1,1,2-Tetrachloroethane	Tetrachloroethene	1,1,2-Trichloroethane	Toluene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride
BL-5	12/16/2002	2,600	<50	<50	150	<50	<50	<50	<50	<50	3,200	<50	<50	<50	6,500	<50	<50	16,000	<50	<50
BL-7	12/16/2002	1,400	<50	<50	150	<50	<50	<50	<50	<50	3,800	<50	<50	<50	6,300	<50	<50	16,000	<50	<50
BL-9	12/17/2002	<10	22	<0.5	97	3.5	1.1	6	55	4.8	1,500	37	120	1	4,700	3	<0.5	17,000	<0.5	1.3
BL-11	12/17/2002	<10	8	0.6	86	0.9	0.7	1.9	27	0.8	1,800	17	110	2	2,400	1.7	<0.5	10,000	1	2
BL-12	12/17/2002	<1000	21	0.6	110	1.7	1.3	7.3	33	5.1	2,900	60	63	1.7	4,400	3.6	<0.5	14,000	1.5	2.1
BL-14	12/18/2002	<1000	<50	<50	<50	<50	<50	<50	<50	<50	1,000	<50	61	<50	1,200	<50	87	5,700	<50	<50
BL-18	12/12/2002	8,600	<50	<50	<50	<50	<50	<50	<50	<50	3,100	<50	<50	<50	3,400	<50	<50	4,500	<50	<50
BL-19	12/11/2002	<200	<10	<10	10	<10	<10	<10	<10	<10	65	<10	<10	<10	2,000	<10	<10	2,200	<10	<10
BL-20	12/12/2002	<1000	<50	<50	<50	<50	<50	<50	<50	<50	650	61	<50	<50	7,300	<50	<50	11,000	<50	<50
BL-20-1	12/12/2002	<500	<25	<25	52	<25	<25	<25	<25	<25	760	44	26	<25	8,100	<25	<25	11,000	<25	<25
MCL (ug/L)		UA	1	0.5	80*	600	UA	5	5	0.5	6	10	6	UA	5	5	150	5	150	0.5

Notes

< = Below the Practical Quantitation Limit
VOCs - Volatile Organic Compounds
ug/L - micrograms per Liter
BL-20-1 - Duplicate Sample of BL-20
MCL - Primary Maximum Contaminant Level (Source is California Department of Health Services, February 22, 2002)
MCL* - Source is U.S. EPA
UA - Unavailable MCL

Table 2
Summary of Soil Analytical Data

	Sample Depth (feet bgs)	Date Sampled	Analyte: VOCs by EPA Method 8260B/5035 (Results in ug/Kg)																													
			Acetone	Benzene	2-Butanone (Methyl Ethyl Ketone)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	sec-Butylbenzene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		6.0E+06	1,300	2.7E+07	240,000	220,000	1.2E+04	2,000	3.7E+05	7,900	600	150,000	4.1E+05	1.7E+06	6,000	NA	2.0E+06	NA	20,000	21,000	190,000	2.4E+05	3,400	5.2E+05	220,000	3.9E+05	1,600	1.2E+06	170,000	70,000	110	NA	NA
BL-4	5	12/10/02	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-4	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	<5	65	<2	<2
BL-4	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	35	<2	<5	<5	<5	<5	<5	<5	33	<2	<2
BL-4	30	12/10/02	<50	3.4	<50	<5	<5	17		5.9	<5	<5	34	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	240	<2	<2
BL-4	40	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	20	<5	<5		<10	<5	<50	<2	67	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	140	<2	<2
BL-4	45	12/10/02	<50	<2	<50	<5	<5	5.9		<5	<5	<5	24	<5	<5		<10	<5	<50	<2	<5	<10	<5	280	<2	<5	<5	<5	<5	<5	<5	210	<2	<2
BL-4	50	12/10/02	<50	2.1	<50	<5	<5	19		16	12	11	60	<5	<5		<10	<5	<50	<2	140	<10	<5	890	<2	<5	<5	<5	<5	<5	<5	1500	<2	<2
BL-4	60	12/10/02	<50	<2	<50	<5	<5	9.3		<5	<5	<5	32	<5	<5		<10	<5	<50	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	<5	710	<2	<2
BL-5	0.5	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	260	<2	<5	<5	<5	<5	<5	<5	65	<2	<2
BL-5	35	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	6.7	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5.2	<2	<2
BL-5	55	12/16/02	<50	<2	<50	<5	<5	25		<5	<5	<5	450	<5	<5		<10	<5	<50	<2	<50	<10	<5	520	<2	<5	<5	<5	<5	<5	<5	450	<2	<2
BL-6	10	12/13/02	6400	<20	12000	11000	9800	<50		<50	<5	<50	<5	<50	<50		10000	3300	1900	8000	<500	10000	3800	29000	4800	9800	620	<50	<50	85000	27000	1500	74000	31000
BL-6	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.4	<5	<5		<10	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	<5	12	<2	<2
BL-6	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	35	<5	<5		<10	<5	<50	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	<5	21	<2	<2
BL-6	50	12/13/02	<50	<2	<50	<5	<5	34		<5	<5	<5	260	<5	<5		<10	<5	<50	<2	<50	13	<5	250	<2	<5	<5	<5	<5	8.9	<5	520	<2	<2
BL-7	5	12/16/02	<50	<2	<50	15	16	<5		<5	<5	<5	<5	<5	<5		<10	150	<50	<2	<50	<10	280	<5	<2	16	<5	<5	<5	<5	<5	<5	<2	<2
BL-7	15	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-7	45	12/16/02	<50	<2	<50	<5	<5	9.7		<5	<5	<5	58	<5	<5		<10	<5	<50	<2	<50	<10	<5	68	<2	<5	<5	<5	<5	<5	<5	260	<2	<2
BL-7	50	12/16/02	<50	<2	<50	<5	<5	18		<5	<5	<5	100	5.7	<5		<10	<5	<50	<2	<50	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	730	<2	<2
BL-8	0.5	12/13//02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-8	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-8	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	26	<2	<5	<5	<5	<5	<5	<5	27	<2	<2

Table 4
Summary of Permanent Monitoring Well Analytical Data

MONITORING WELL NUMBER	SAMPLE DATE	ANALYTE CONCENTRATION (ug/l)									
		Benzene	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	1,1,1-TCA	TCE	PCE
MW-1	07/08/87	1.1	ND	ND	11	ND	NA	ND	3.6	ND	2
	04/04/88	ND	6	ND	25	2,400	NA	ND	1200	470	160
	03/04/93	220	ND	1,500	ND	720	110	ND	3300	420	ND
	03/09/94	ND	ND	1,800	ND	220	100	ND	120	5,400	1,800
	06/12/95	21	11	2,900	37	300	NA	ND	100	3,700	800
	09/04/98	<100	<100	2,800	<100	700	230	<50	<100	7,300	1,600
	Abandoned 1998										
MW-2	04/04/88	ND	7	ND	ND	ND	ND	ND	ND	130	79
	09/13/90	ND	8	ND	ND	ND	10	ND	ND	470	220
	04/26/93	ND	7.3	ND	ND	5.3	6.1	ND	ND	910	400
	03/10/94	ND	ND	ND	ND	20	15	ND	ND	960	410
	06/12/95	ND	ND	ND	ND	ND	NA	ND	ND	1,800	460
	09/04/98	<100	<100	<100	<100	<100	400	<50	<100	6,400	2,400
	Abandoned 1998										
MW-3	06/28/95	40	99	24	19	140	NA	1.8	ND	30,000	15,000
	09/08/98	<250	<250	<250	<250	<250	680	<120	<250	25,000	12,000
	09/08/98	<250	<250	<250	<250	<250	660	<120	<250	22,000	11,000
	04/05/00	<50	110	<100	54	<100	540	<100	<100	15,000	5,100
	04/05/00(d)	<50	120	<100	<50	<100	570	<100	<100	14,000	5,000
	08/30/00	33	93	<50	<25	85	590		<50	27,000	9,800
	01/17/03	<25	80	<25		49	420	<25	<25	18,000	3,700
MW-4	06/28/95	62	190	48	21	150	NA	2.4	ND	30,000	10,000
	09/08/98	<250	<250	<250	<250	<250	4700	<120	<250	21,000	9,100
	04/05/00	<50	170	<100	<50	<100	3,200	<100	<100	13,000	5,200
	08/30/00	29	140	<50	<25	51	3,500		<50	17,000	6,700
	01/17/03	<25	220	<25		62	6,200	56	<25	25,000	6,500
MW-5	08/31/00	<250	<500	<500	<250	<500	730		<500	34,000	15,000
	08/31/00(d)	<250	<500	<500	<250	<500	750		<500	31,000	14,000
	01/17/03	52	140	<25		110	830	<25	<25	46,000	12,000
MW-6	08/30/00	<5	29	<10	<5	46	51		<10	4,100	1,900
	01/17/03	<25	<25	<25		<25	160	<25	<25	8,000	1,700
MW-7	08/30/00	6	<10	2,200	12	860	64		240	1,400	290
	01/17/03	<25	<25	2,100		1,000	86	<25	130	3,100	440
MW-8	01/17/03	<2.5	6.8	<2.5		28	22	<2.5	<2.5	750	250
	01/17/03(d)	<2.5	6.0	<2.5		26	20	<2.5	<2.5	740	250
MCL	ug / L	1	80.0	5	0.5	6	6	10	200	5	5

Notes: Data prior to September 1998 sampling event was reproduced from Table 4 of the H2O Science Report dated July 12, 1995.
ND - Analyte not detected
NA - Analyte not analyzed or listed in Table 4 of the H2O Science Report.
<100 - Analyte is below the detection limit of 100
ug/l - Micrograms per liter (parts per billion)

1,1-DCA = 1,1-Dichloroethane
1,2-DCA = 1,2-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
Wells MW-1 and MW-2 were abandoned in 1998.
(d) - duplicate sample

1,1,1-TCA = 1,1,1-Trichloroethane
1,1,2-TCA = 1,1,2-Trichloroethane
TCE = Trichloroethene
PCE = Tetrachloroethene
MCL = Maximum Contamiant Level

F/Data/Jobs/6900/6999.06/Deliverables/Draft Dec 2002/Tables/GWData Rev01.xls

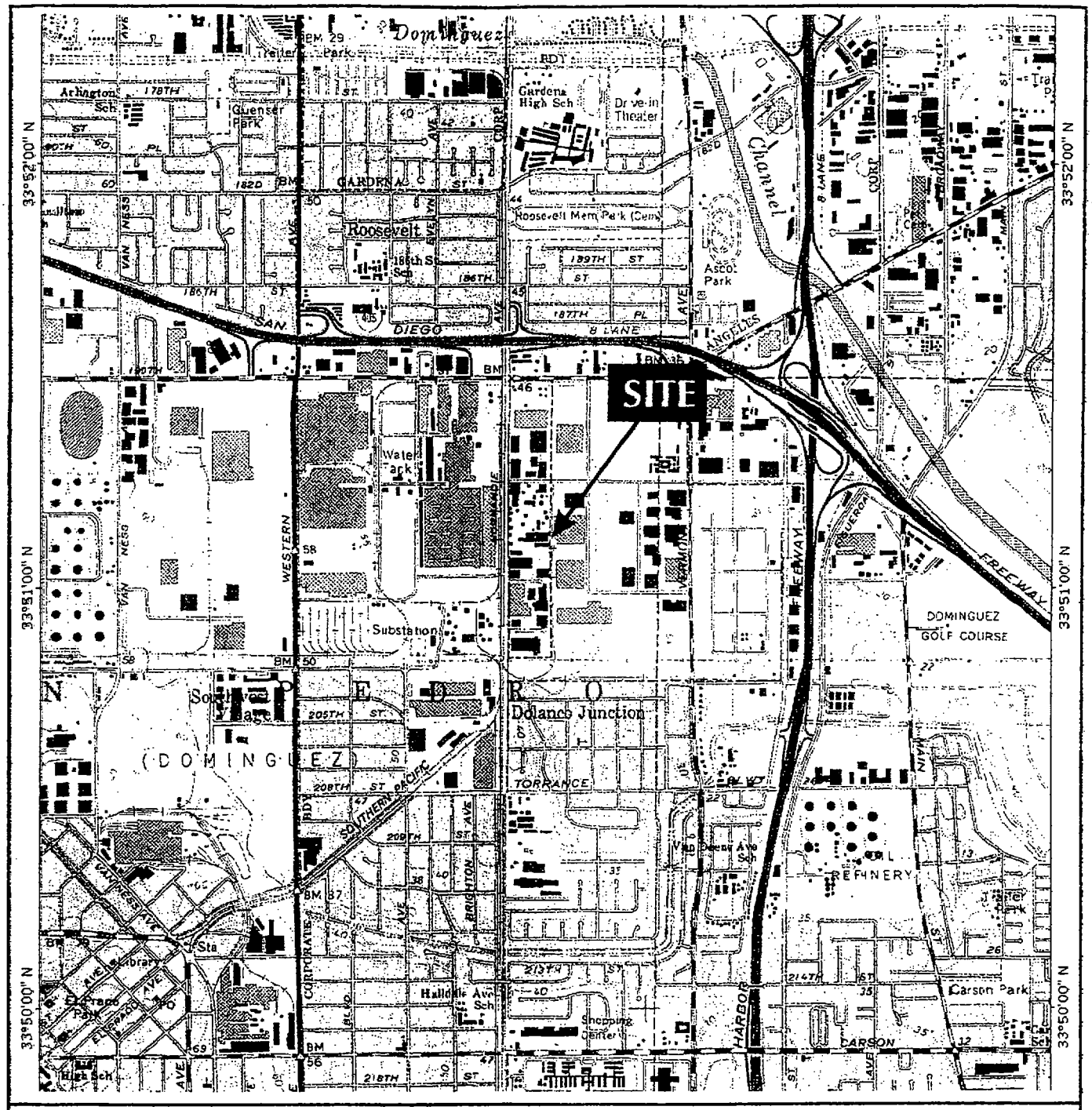
Table 4
Summary of Monitoring Well Analytical Results
Former Trico Facility
Torrance, CA

Monitoring Well	Date Sampled	Analyte								
		VOCs by USEPA 8260B (Results in ug/L)								
		Benzene	Chloroform	1,1-Dichoroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene
MW-3	1/17/2003	<25	80	<25	420	<25	49	3,700	<25	18,000
MW-4	1/17/2003	<25	220	<25	6,200	56	62	6,500	<25	25,000
MW-5	1/17/2003	52	140	<25	830	<25	110	12,000	<25	46,000
MW-6	1/17/2003	<25	<25	<25	160	<25	<25	1,700	<25	8,000
MW-7	1/17/2003	<25	<25	2,100	86	<25	1,000	440	130	3,100
MW-8	1/17/2003	<2.5	6.8	<2.5	22	<2.5	28	250	<2.5	750
MW-8A	1/17/2003	<2.5	6.0	<2.5	20	<2.5	26	250	<2.5	740
MCL (ug/L)		1	80*	5	6	10	6	5	200	5

Notes
< = Below the Practical Quantitation Lim
VOCs - Volatile Organic Compounds
ug/L - micrograms per Liter
MW-8A - Duplicate Sample of MW-8
MCL - Primary Maximum Contaminant Level (Source is California Department of Health Services, February 22, 2002)
MCL* - Source is U.S. EPA

PACCAR 03413

Figures



BASE MAP FROM U.S.G.S. 7.5' SERIES (TOPOGRAPHIC)
TORRANCE QUADRANGLE, CALIFORNIA, 1964, PHOTOREVISED 1981

HARTCROWSER

HC PROJECT NO.: 6999.06

DATE: JULY 11, 2003

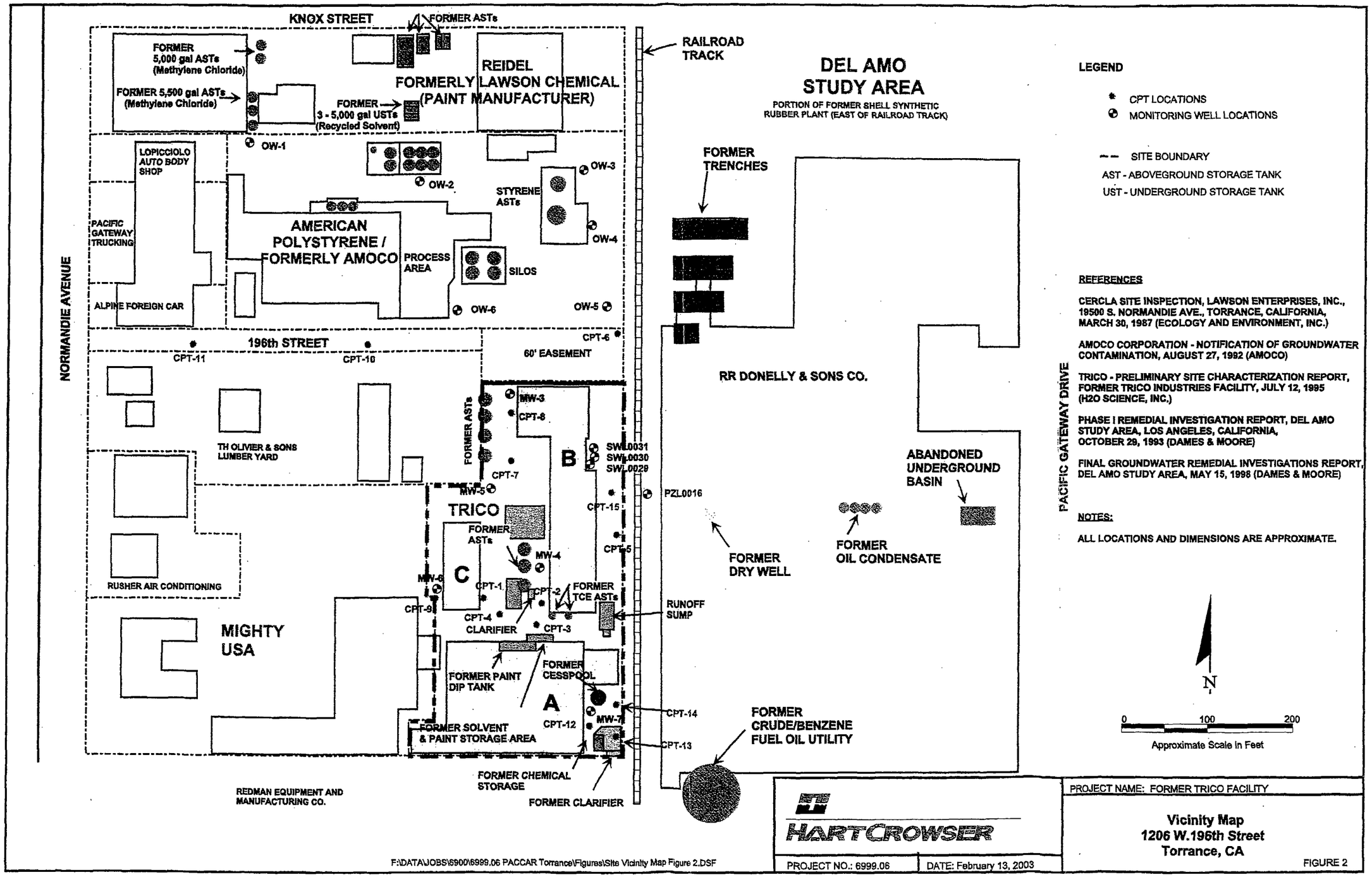
PROJECT NAME: FORMER TRICO FACILITY

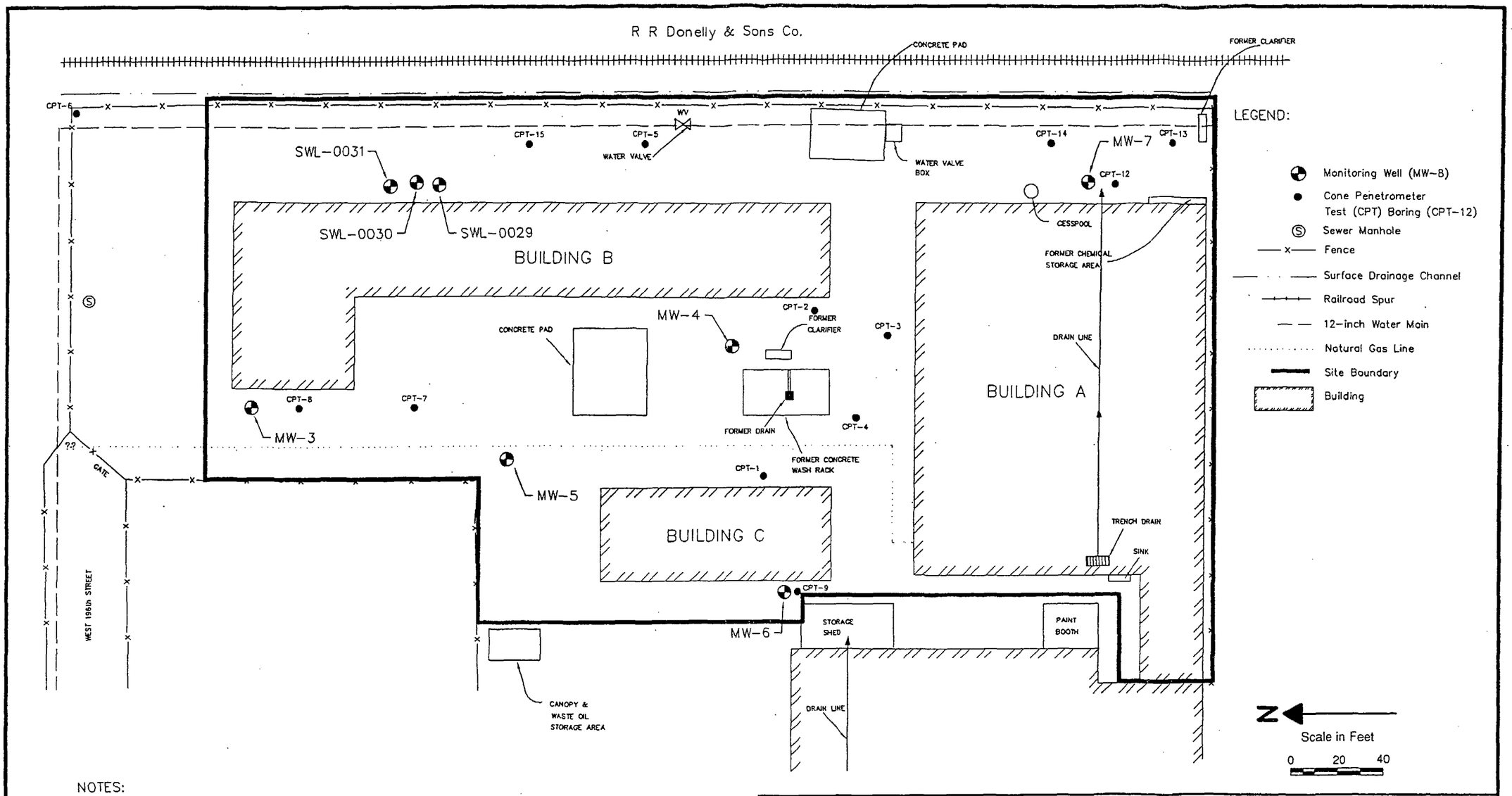
SITE LOCATION MAP
1206 W. 196th Street
Torrance, California

FIGURE 1

PACCAR 03415

FIGURES


KNOX STREET
FORMER ASTs
FORMER 5,000 gal ASTs (Methylene Chloride)
FORMER 5,500 gal ASTs (Methylene Chloride)
FORMER 3 - 5,000 gal USTs (Recycled Solvent)
REIDEL
FORMERLY LAWSON CHEMICAL (PAINT MANUFACTURER)
RAILROAD TRACK
DEL AMO STUDY AREA
PORTION OF FORMER SHELL SYNTHETIC RUBBER PLANT (EAST OF RAILROAD TRACK)
LEGEND
CPT LOCATIONS
MONITORING WELL LOCATIONS
SITE BOUNDARY
AST - ABOVEGROUND STORAGE TANK
UST - UNDERGROUND STORAGE TANK
OW-1
OW-2
OW-3
OW-4
OW-5
OW-6
LOPICCIOLO AUTO BODY SHOP
PACIFIC GATEWAY TRUCKING
ALPINE FOREIGN CAR
AMERICAN POLYSTYRENE / FORMERLY AMOCO
PROCESS AREA
STYRENE ASTs
SILOS
NORMANDIE AVENUE
196th STREET
CPT-11
CPT-10
CPT-6
60' EASEMENT
FORMER TRENCHES
RR DONELLY & SONS CO.
PACIFIC GATEWAY DRIVE
TH OLIVIER & SONS LUMBER YARD
FORMER ASTs
MW-3
CPT-8
B
SWL0031
SWL0030
SWL0029
CPT-7
MW-5
PZL0016
ABANDONED UNDERGROUND BASIN
TRICO
CPT-15
FORMER ASTs
MW-4
CPT-5
FORMER DRY WELL
FORMER OIL CONDENSATE
RUSHER AIR CONDITIONING
MW-6
C
CPT-1
CPT-2
FORMER TCE ASTs
CPT-9
CPT-4
CLARIFIER
CPT-3
RUNOFF SUMP
MIGHTY USA
FORMER PAINT DIP TANK
FORMER CESSPOOL
A
CPT-12
MW-7
CPT-14
CPT-13
FORMER SOLVENT & PAINT STORAGE AREA
FORMER CRUDE/BENZENE FUEL OIL UTILITY
FORMER CHEMICAL STORAGE
FORMER CLARIFIER
REDMAN EQUIPMENT AND MANUFACTURING CO.
REFERENCES
CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)
AMOCO CORPORATION - NOTIFICATION OF GROUNDWATER CONTAMINATION, AUGUST 27, 1992 (AMOCO)
TRICO - PRELIMINARY SITE CHARACTERIZATION REPORT, FORMER TRICO INDUSTRIES FACILITY, JULY 12, 1995 (H2O SCIENCE, INC.)
PHASE I REMEDIAL INVESTIGATION REPORT, DEL AMO STUDY AREA, LOS ANGELES, CALIFORNIA, OCTOBER 29, 1993 (DAMES & MOORE)
FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)
NOTES:
ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
N
0
100
200
Approximate Scale in Feet
HARTCROWSER
PROJECT NAME: FORMER TRICO FACILITY
Vicinity Map
1206 W.196th Street
Torrance, CA
FIGURE 2
F:\DATA\JOBS\6900\6999.06 PACCAR Torrance\Figures\Site Vicinity Map Figure 2.DSF
PROJECT NO.: 6999.06
DATE: February 13, 2003



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE. 101FT S OF CTR LINE PROD KNOX ST. 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST. DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DUUN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

HARTCROWSER

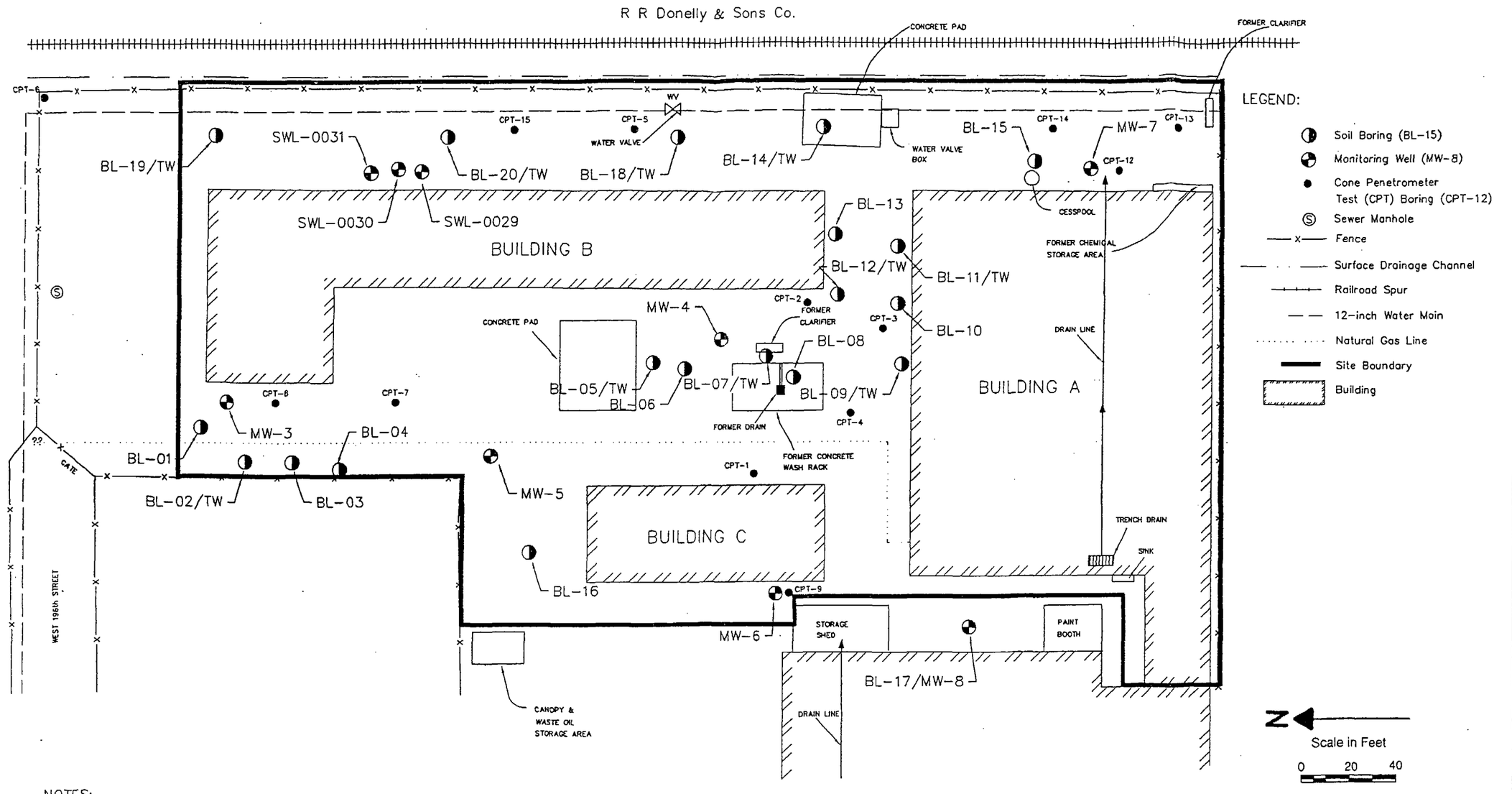
SITE MAP

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F Data/Jobs/6900s/6999 06/Figures/Final Report Figures/Figure 3-Site Map

FIGURE 3



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE. 101FT S OF CTR LINE PROD KNOX ST. 11FT S OF PP #575840H. 0.05MI NLY FROM 196TH ST. DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

HARTCROWSER

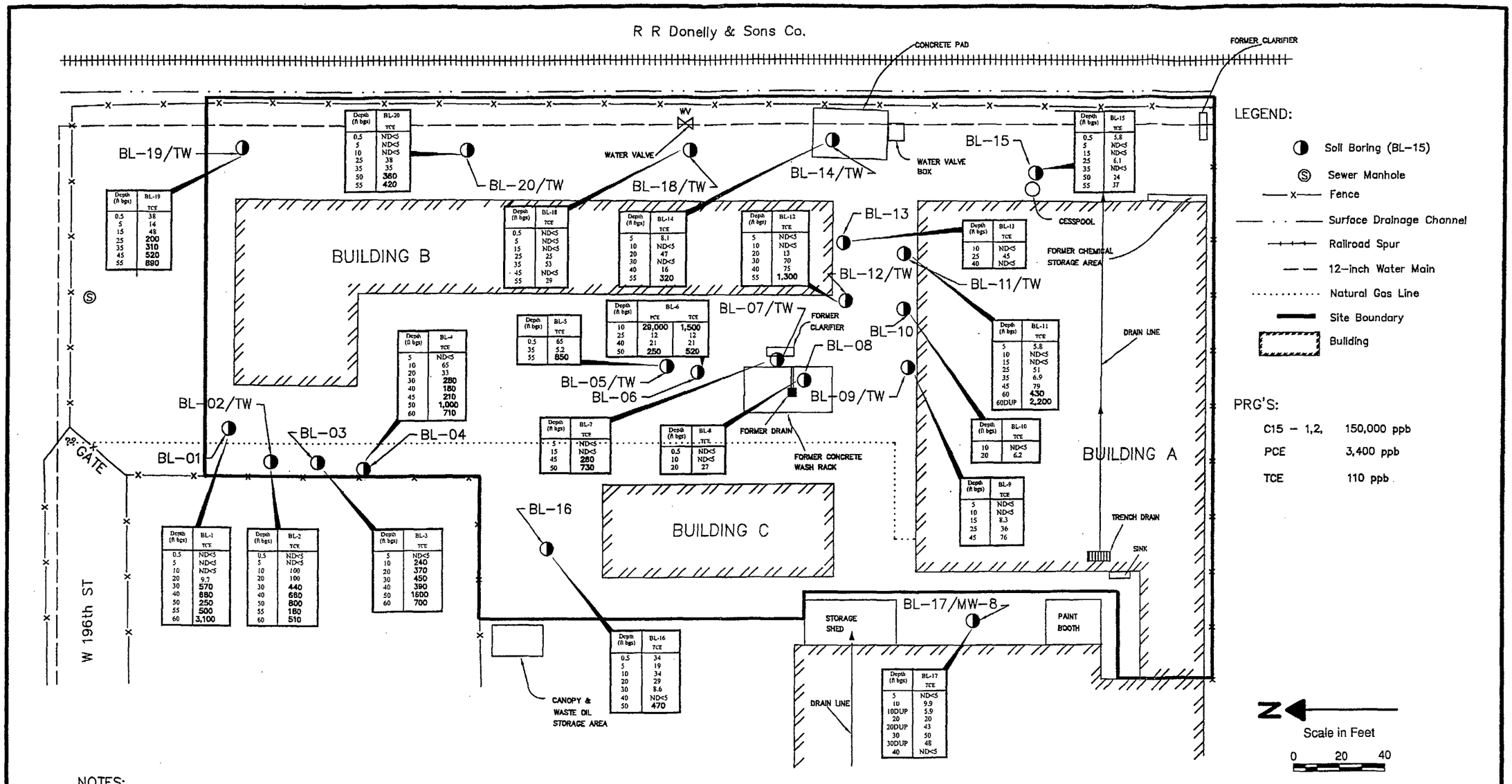
SOIL BORING LOCATION MAP

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by: _____
Checked by: _____
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/
Figure 4-Site Boring Locations Map

FIGURE 4



Depth (ft bgs)	BL-19 TCE
0.5	38
5	14
15	48
25	**200**
35	**310**
45	**520**
55	**890**

Depth (ft bgs)	BL-20 TCE
0.5	ND<5
5	ND<5
10	ND<5
25	38
35	35
50	**360**
55	**420**

Depth (ft bgs)	BL-18 TCE
0.5	ND<5
5	ND<5
15	ND<5
25	25
35	53
45	ND<5
55	29

Depth (ft bgs)	BL-14 TCE
5	8.1
10	ND<5
20	47
30	ND<5
40	16
55	**320**

Depth (ft bgs)	BL-12 TCE
5	ND<5
10	ND<5
20	13
30	70
40	75
55	**1,300**

Depth (ft bgs)	BL-15 TCE
0.5	5.8
5	ND<5
15	ND<5
25	6.1
35	ND<5
50	24
55	37

Depth (ft bgs)	BL-13 TCE
10	ND<5
25	45
40	ND<5

Depth (ft bgs)	BL-5 TCE
0.5	65
35	5.2
55	**850**

Depth (ft bgs)	BL-6 TCE	TCE
10	**29,000**	**1,500**
25	12	12
40	21	21
50	**250**	**520**

Depth (ft bgs)	BL-4 TCE
5	ND<5
10	65
20	33
30	**280**
40	**180**
45	**210**
50	**1,000**
60	**710**

Depth (ft bgs)	BL-11 TCE
5	5.8
10	ND<5
15	ND<5
25	51
35	6.9
45	79
60	**430**
60DUP	**2,200**

Depth (ft bgs)	BL-10 TCE
10	ND<5
20	6.2

Depth (ft bgs)	BL-7 TCE
5	ND<5
15	ND<5
45	**280**
50	**730**

Depth (ft bgs)	BL-8 TCE
0.5	ND<5
10	ND<5
20	27

Depth (ft bgs)	BL-9 TCE
5	ND<5
10	ND<5
15	8.3
25	36
45	76

Depth (ft bgs)	BL-1 TCE
0.5	ND<5
5	ND<5
10	ND<5
20	9.7
30	**570**
40	**880**
50	**250**
55	**500**
60	**3,100**

Depth (ft bgs)	BL-2 TCE
0.5	ND<5
5	ND<5
10	100
20	100
30	**440**
40	**680**
50	**800**
55	**180**
60	**510**

Depth (ft bgs)	BL-3 TCE
5	ND<5
10	**240**
20	**370**
30	**450**
40	**390**
50	**1600**
60	**700**

Depth (ft bgs)	BL-16 TCE
0.5	34
5	19
10	34
20	29
30	8.6
40	ND<5
50	**470**

Depth (ft bgs)	BL-17 TCE
5	ND<5
10	9.9
10DUP	5.9
20	20
20DUP	43
30	50
30DUP	48
40	ND<5

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 25FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: VOCs were analyzed by EPA Method 8260B/5035 (Results in ug/Kg)

6: 60Dup - Duplicate Sample

7. Concentration greater than Preliminary Remediation Goals (PRG) are bolded.

HARTCROWSER

SOIL ANALYTICAL RESULTS

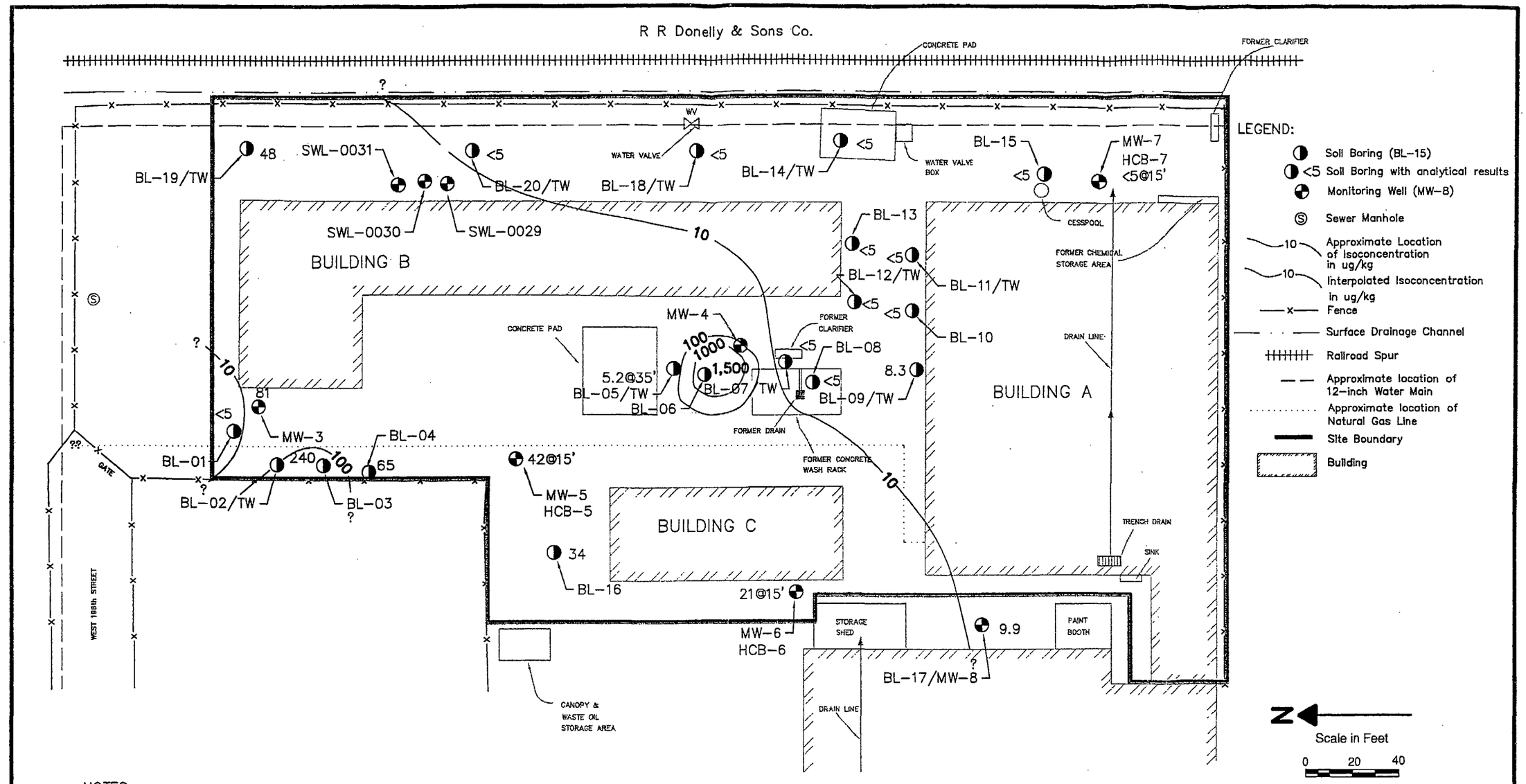
Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/
Figure 5-Soil Analytical Results

FIGURE 5

PACCAR 03420



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 186TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 10 AND 15 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

10 & 15-FOOT DEPTH TCE SOIL DATA

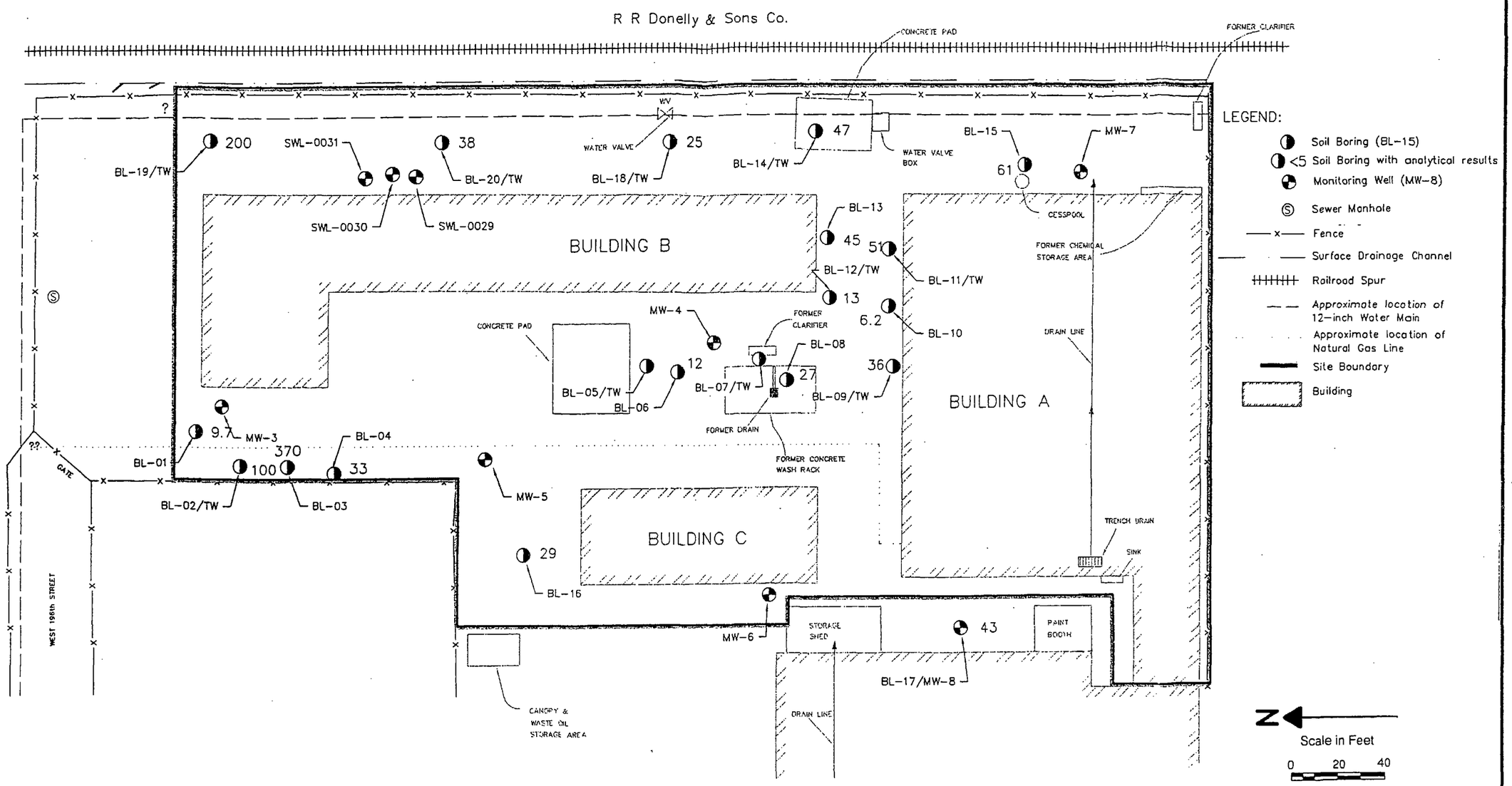
Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: DECEMBER 10, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/Figure 6-TCE 10&15 feet

FIGURE 6

PACCAR 03421



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 20 AND 25 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

20 & 25-FOOT DEPTH TCE SOIL DATA

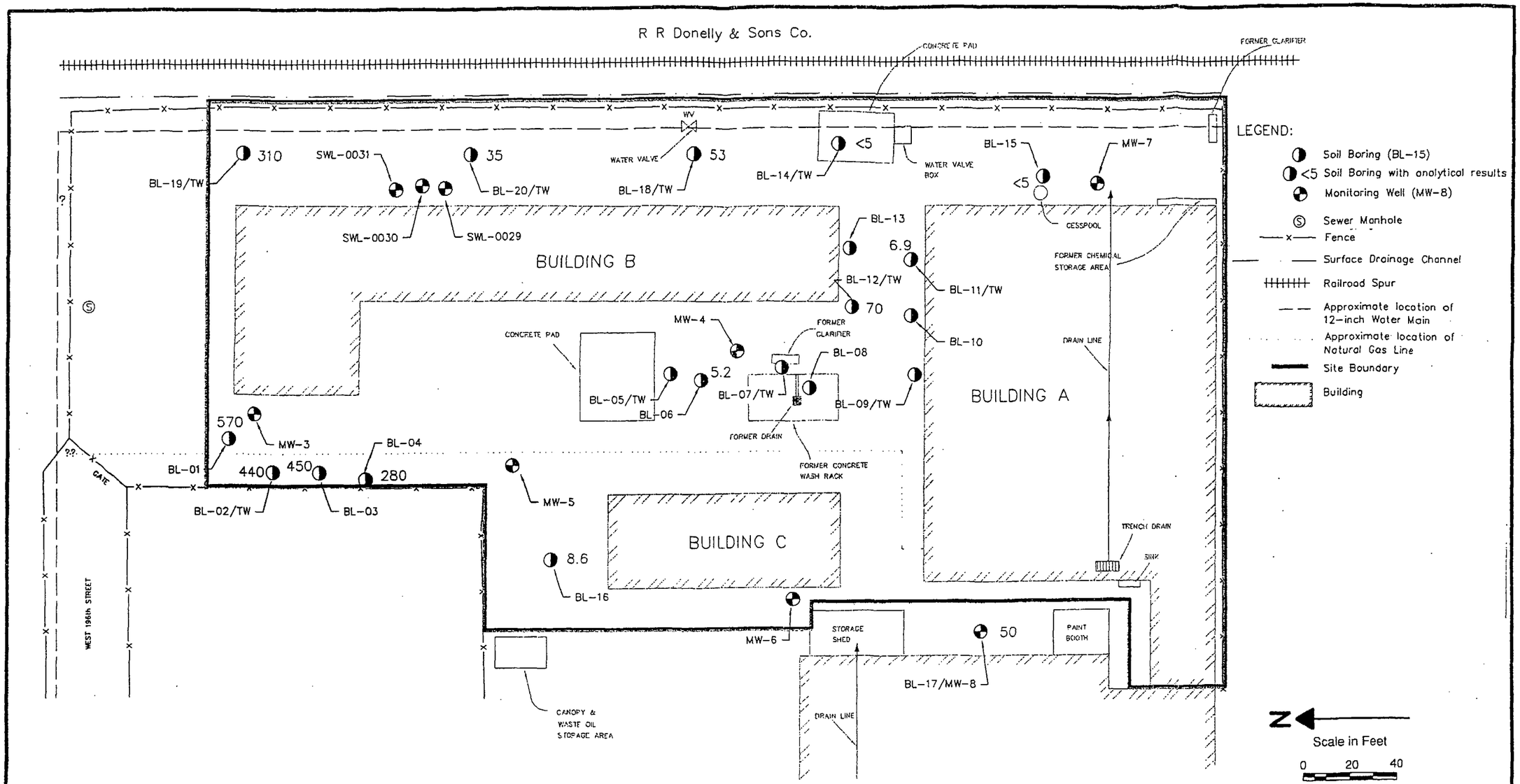
Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File F:Data/Jobs/6900s/6999 06/Figures/Final Report Figures/
Figure 7-TCE 20&25 feet

FIGURE 7

PACCAR 03422



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29.

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 30 AND 35 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

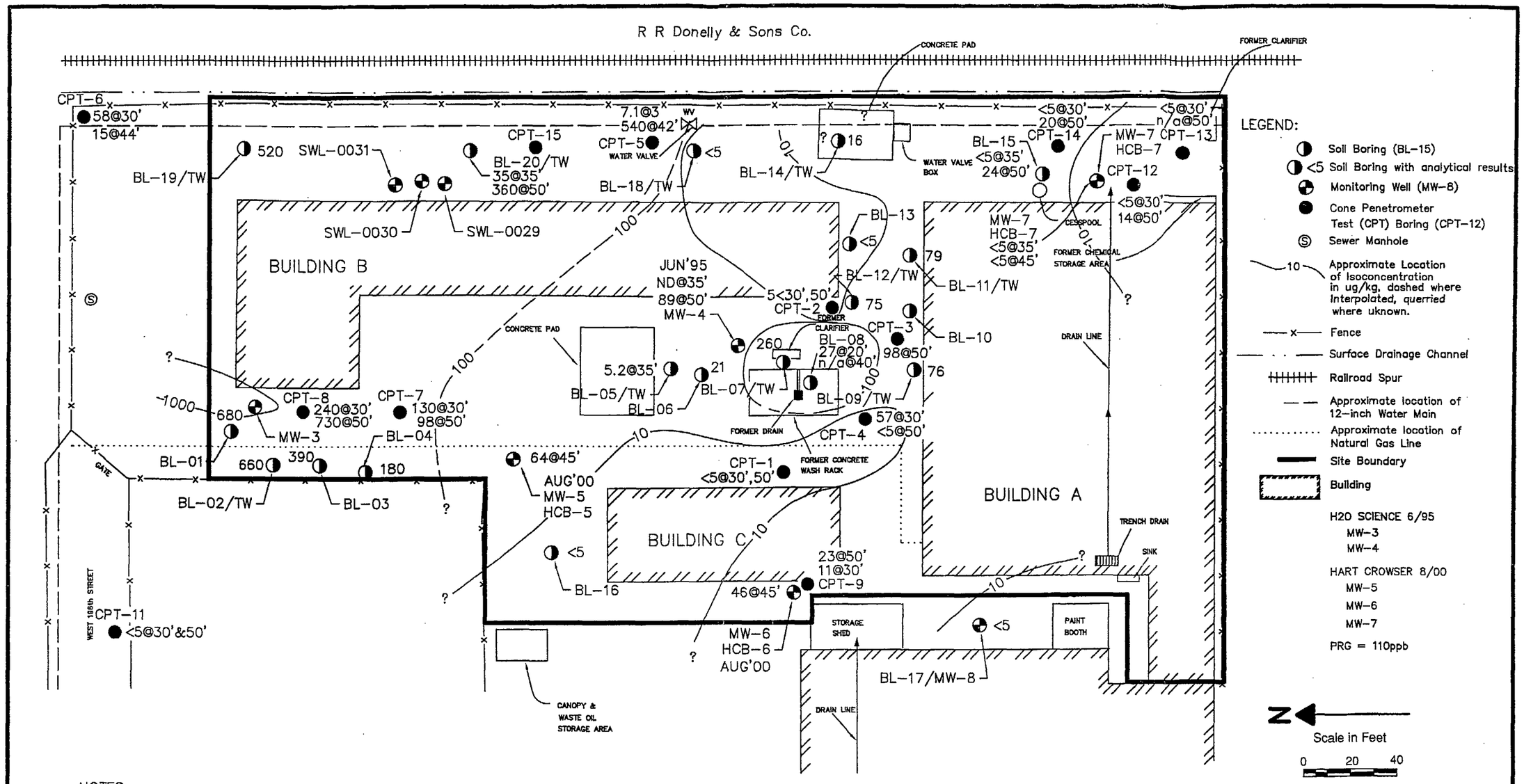
30 & 35-FOOT DEPTH TCE SOIL DATA

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/Figure 8-TCE 30&35 feet

FIGURE 8



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02280 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AJ4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 40 AND 45 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

40 & 45-FOOT DEPTH TCE SOIL DATA

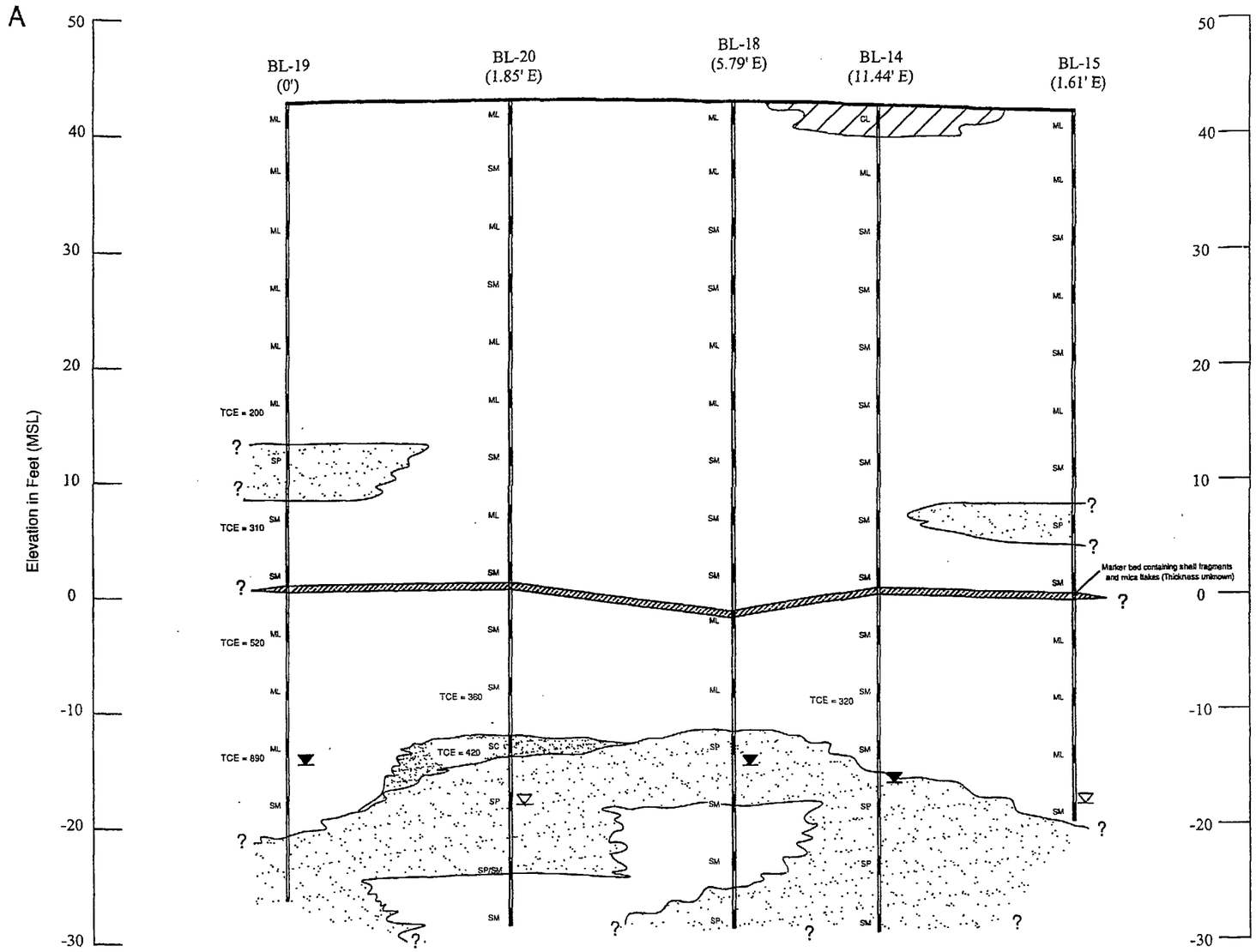
Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

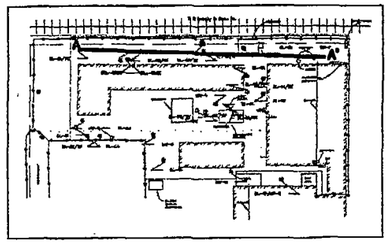
Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/
Figure 9-TCE 40&45 feet

FIGURE 9

PACCAR 03424



CROSS SECTION LOCATION MAP:



LEGEND:

1: CL – Inorganic Clays of low to medium plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays

2: ML – Inorganic Silts and very fine Sands, Rock Flour, Silty or Clayey fine Sands or Clayey Silts with slight plasticity

3: SC – Clayey Sands, Sand–Clay mixtures

4: SM – Silty Sands, Sand–Silt mixtures

5: SP – Poorly graded Sands, Gravelly Sands, little or no fines

6: ▼ – Approximate Water Level measured below ground surface (using Electric Water Level Meter measured)

7: ▽ – First encountered water observed in soil sample

8: BL–18 – Boring Number

Horizontal Scale in Feet

0 25 50

Vertical Scale in Feet

Vertical Exaggeration x 5

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02280 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

5: TCE = Trichloroethene

6: DASHED CONTACTS BETWEEN SOIL UNITS ARE BASED UPON CORRELATION OF SOIL TYPES BETWEEN BORINGS AND REPRESENT OUR INTERPRETATION OF SUBSURFACE CONDITIONS BASED ON CURRENTLY AVAILABLE DATA.

7: ONLY CONTAMINANT OF CONCERN ABOVE PRG

8: MSL = Mean Sea Level

HARTCROWSER

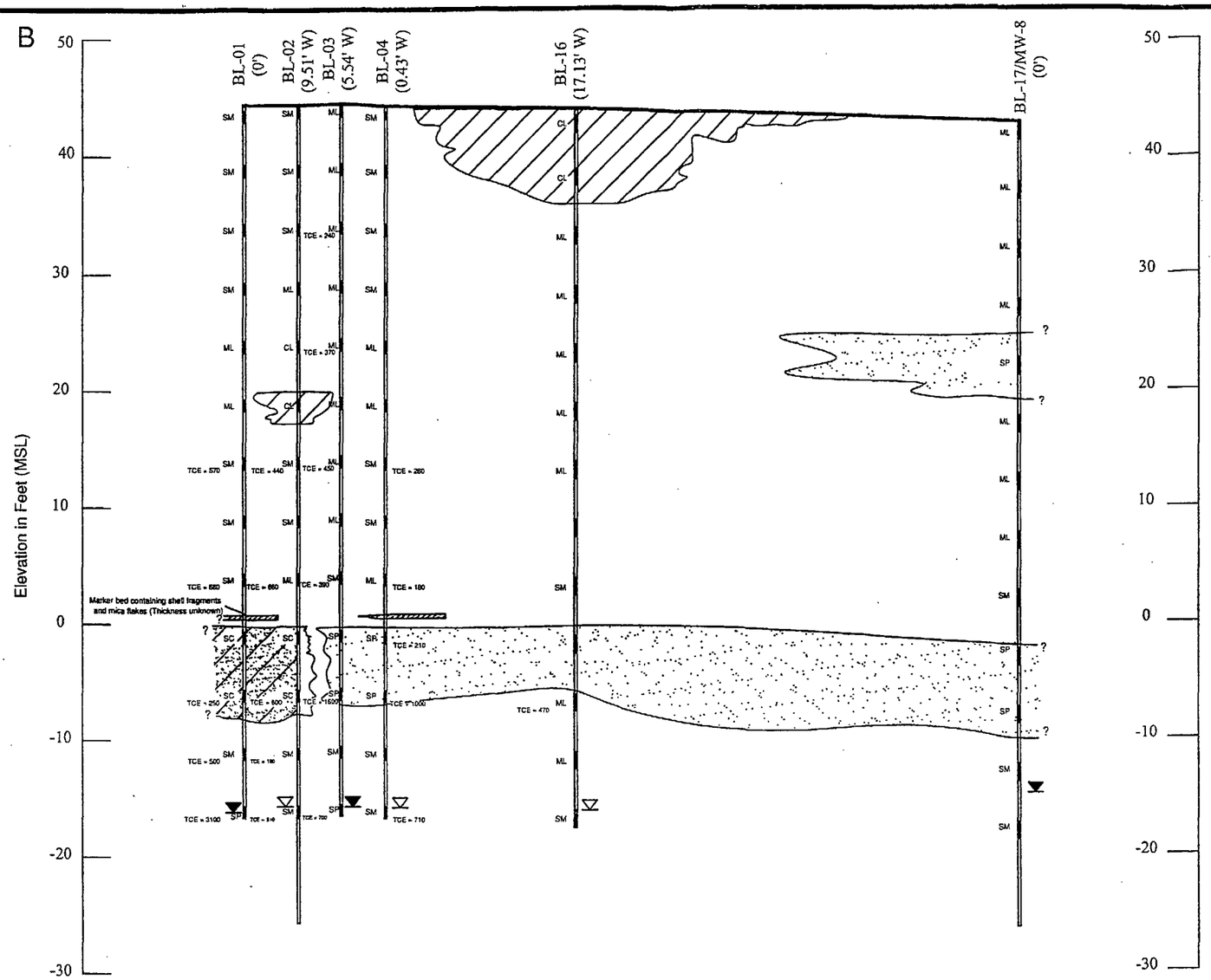
CROSS SECTION A-A'

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

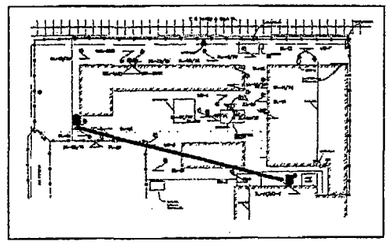
Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900's/6999.06/Figures/Final Report Figures/
Figure 10-Cross Section A-A'

FIGURE 10



CROSS SECTION LOCATION MAP:



LEGEND:

1: CL – Inorganic Clays of low to medium plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays

2: ML – Inorganic Silts and very fine Sands, Rock Flour, Silty or Clayey fine Sands or Clayey Silts with slight plasticity

3: SC – Clayey Sands, Sand–Clay mixtures

4: SM – Silty Sands, Sand–Silt mixtures

5: SP – Poorly graded Sands, Gravelly Sands, little or no fines

6: ▼ – Approximate Water Level measured below ground surface (using Electric Water Level Meter measured)

7: ▽ – First encountered water observed in soil sample

8: BL–18 – Boring Number

Horizontal Scale in Feet

0 25 50

Vertical Scale in Feet

Vertical Exaggeration x 5

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

5: TCE = Trichloroethene

6: DASHED CONTACTS BETWEEN SOIL UNITS ARE BASED UPON CORRELATION OF SOIL TYPES BETWEEN BORINGS AND REPRESENT OUR INTERPRETATION OF SUBSURFACE CONDITIONS BASED ON CURRENTLY AVAILABLE DATA.

7: ONLY CONTAMINANT OF CONCERN ABOVE PRG

8: MSL = Mean Sea Level

HARTCROWSER

CROSS SECTION B-B'

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

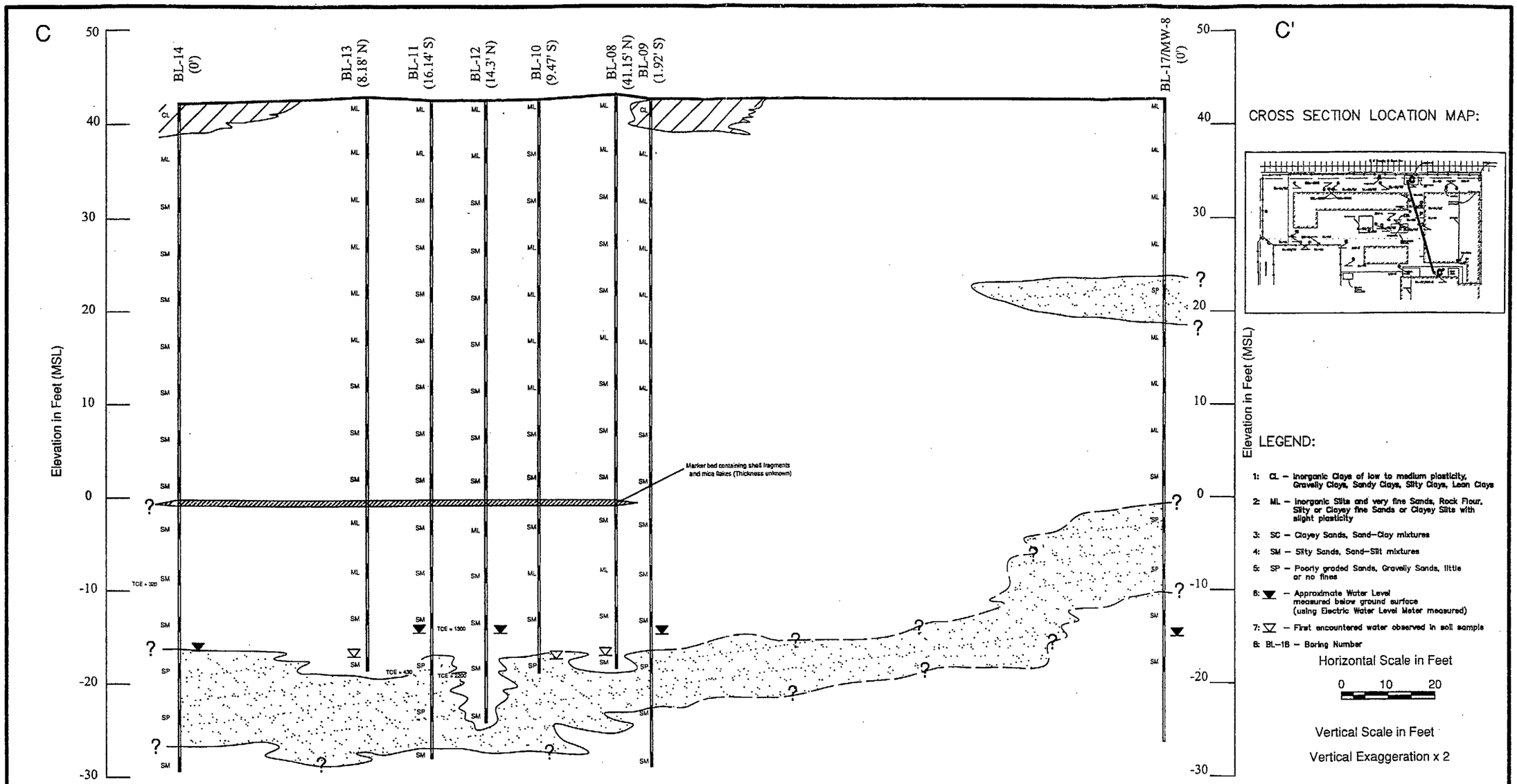
Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:

File:F:Data/Jobs/6900:/6999.06/Figures/Final Report Figures/
Figure 11-Cross Section B-B'

FIGURE 11

PACCAR 03426



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02280 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840N, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

5: TCE = Trichloroethene

6: DASHED CONTACTS BETWEEN SOIL UNITS ARE BASED UPON CORRELATION OF SOIL TYPES BETWEEN BORINGS AND REPRESENT OUR INTERPRETATION OF SUBSURFACE CONDITIONS BASED ON CURRENTLY AVAILABLE DATA.

7: ONLY CONTAMINANT OF CONCERN ABOVE PRG

8: MSL = Mean Sea Level

HARTCROWSER

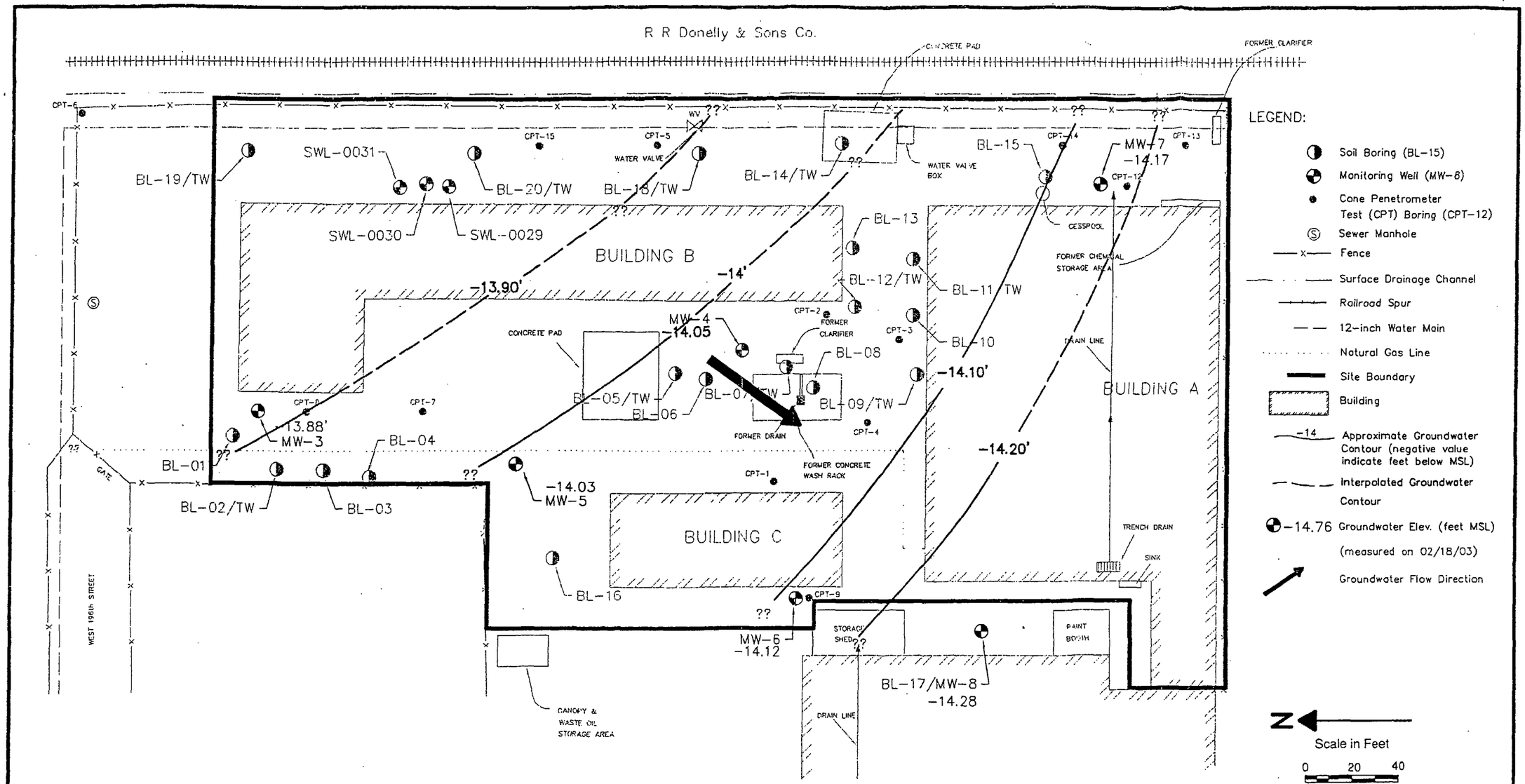
CROSS SECTION C-C'

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/
Figure 12-Cross Section C-C'

FIGURE 12



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: MSL - Mean Sea Level

HARTCROWSER

GROUNDWATER ELEVATION RELATIVE TO MSL

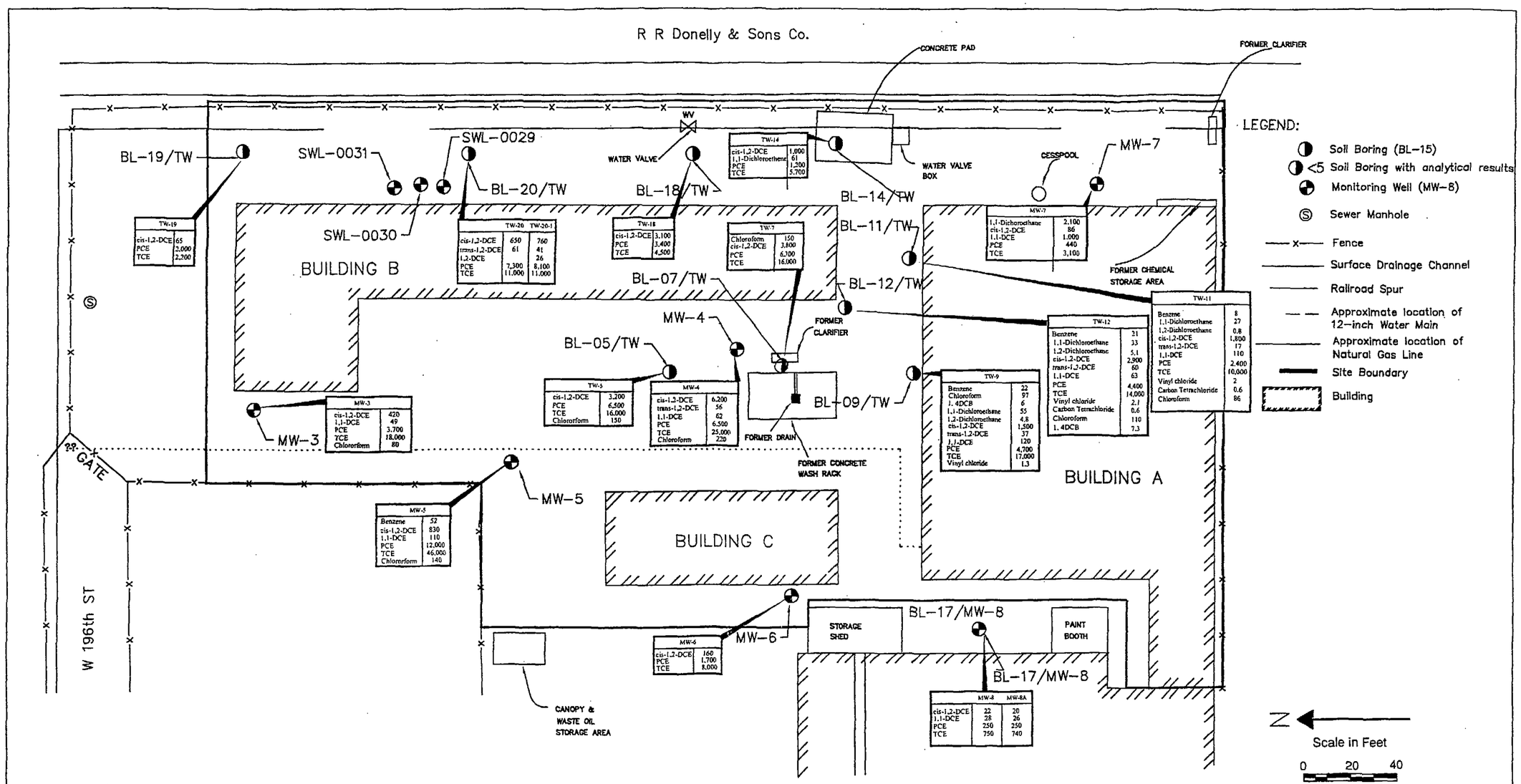
Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/
Figure 13-Groundwater Potentiometric Surface

FIGURE 13

PACCAR 03428



TW-19	
cis-1,2-DCE	65
PCE	2,000
TCE	2,200

	TW-26	TW-20-1
cis-1,2-DCE	650	760
trans-1,2-DCE	61	41
1,2-DCE		26
PCE	7,300	8,100
TCE	11,000	11,000

TW-18	
cis-1,2-DCE	3,100
PCE	3,400
TCE	4,500

TW-14	
cis-1,2-DCE	1,000
1,1-Dichloroethene	61
PCE	1,200
TCE	5,700

TW-7	
Chloroform	150
cis-1,2-DCE	3,800
PCE	6,300
TCE	16,000

MW-7	
1,1-Dichloroethane	2,100
cis-1,2-DCE	86
1,1-DCE	1,000
PCE	440
TCE	3,100

TW-11	
Benzene	8
1,1-Dichloroethane	27
1,2-Dichloroethane	0.8
cis-1,2-DCE	1,800
trans-1,2-DCE	17
1,1-DCE	110
PCE	2,400
TCE	10,000
Vinyl chloride	2
Carbon Tetrachloride	0.6
Chloroform	86

TW-12	
Benzene	31
1,1-Dichloroethane	33
1,2-Dichloroethane	5.1
cis-1,2-DCE	2,900
trans-1,2-DCE	60
1,1-DCE	63
PCE	4,400
TCE	14,000
Vinyl chloride	2.1
Carbon Tetrachloride	0.6
Chloroform	110
1,4DCB	7.3

TW-9	
Benzene	22
Chloroform	97
1,4DCB	6
1,1-Dichloroethene	55
1,2-Dichloroethene	4.8
cis-1,2-DCE	1,500
trans-1,2-DCE	37
1,1-DCE	120
PCE	4,700
TCE	17,000
Vinyl chloride	1.3

TW-5	
cis-1,2-DCE	3,200
PCE	6,500
TCE	16,000
Chloroform	130

MW-4	
cis-1,2-DCE	6,200
trans-1,2-DCE	56
1,1-DCE	62
PCE	6,500
TCE	25,000
Chloroform	220

MW-3	
cis-1,2-DCE	420
1,1-DCE	49
PCE	3,700
TCE	18,000
Chloroform	80

MW-5	
Benzene	52
cis-1,2-DCE	830
1,1-DCE	110
PCE	12,000
TCE	46,000
Chloroform	140

MW-6	
cis-1,2-DCE	160
PCE	1,700
TCE	8,000

	MW-8	MW-8A
cis-1,2-DCE	22	20
1,1-DCE	28	26
PCE	250	250
TCE	750	740

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #57584OH, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DUBLIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location; MW – Monitoring Well Location

5: VOCs were analyzed by EPA Method 8260B (Results in ug/L)

6. BL-20-1 and MW-8A are duplicate samples

7. PCE – Tetrachloroethene; TCE – Trichloroethene; and DCE – Dichloroethene

8. Concentrations displayed above MCLs

9. MCL – Primary maximum contaminant limit (CA DHS, FEB. 22, '02)

HARTCROWSER

TEMPORARY WELL AND GROUNDWATER WELL ANALYTICAL RESULTS

Former Trico Facility
Supplemental Site Investigation
1206 W 196th ST
Torrance, California

Project Number: 6999.06
Date: JULY 11, 2003

Prepared by:
Checked by:
File:F:Data/Jobs/6900s/6999.06/Figures/Final Report Figures/Figure14-Temporary Well and Groundwater Well Analytical Results

FIGURE 14

Appendix A

APPENDIX A

California Regional Water Quality Control Board

Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties
Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.swrcb.ca.gov/rwqcb4

RECEIVED
OCT 2 2002
By

September 30, 2002

Ms. Carole Robbins
PACCAR, Inc.
P.O. Box 1518
Bellevue, WA 98009

WORK PLAN ADDENDUM FOR SUPPLEMENTAL SITE INVESTIGATION – PACCAR, INC. FORMER TRICO INDUSTRIES, 1206 WEST 196TH STREET, TORRANCE, CALIFORNIA (SLIC # 0428) (SITE ID # 2043Y00)

Dear Ms. Robbins:

The Los Angeles Regional Water Quality Control Board (LARWQCB) staff has received and reviewed the August 28, 2002, *"Work Plan Addendum For Supplemental Site Investigation at the Former Trico Facility, 1206 West 196th Street, Torrance, California," (Addendum)* prepared by Hart Crowser for the referenced site (Site). The Addendum (attached) reflected the telephone discussions/teleconference held on August 13, 2002, between Mr. Fred Benz of PACCAR, Inc. (Paccar), Dr. Alistaire Callender of Hart Crowser and Regional Board staff.

Based on our review of the Addendum, we have found the following variances in your responses to some of the items listed below, and therefore, have the following comments to each of those items:

1. **Paccar Response to Item 1 :**
   Although the focus of the current round of investigations is to collect additional data on soil conditions with the goal of obtaining soil closure, we felt that boring BL-17/MW-14 should be converted into a groundwater monitoring well, since it is situated at the extreme downgradient corner of the Site with respect to the most recent groundwater elevation contour data. The groundwater data from this well would be beneficial in determining if any contaminated groundwater is leaving the site. Mr. Benz and Dr. Callender concurred with Regional Board staff on the need for a groundwater monitoring well at the above referenced location at this time. Hence, a new groundwater monitoring well is required during this phase of the investigation.You also mentioned in the Addendum that one boring will be installed in between CPT-15 and CPT-5 to confirm the vertical extent of chlorinated solvents in soil in this area. However, you did not indicate the depth of the boring. Hence, please state the depth of the borehole that you are proposing at this location.

2. **Paccar Response to Item 3 :**
   For the reasons stated above, we need an additional groundwater monitoring well during this phase of the investigation. You mentioned in your response that the existing shallow well in that area SWL0029 will be sampled as a part of this program. It is not clear as to which program you are referring, and whether you are referring to soil or groundwater sample collection or both. Please explain and clarify this statement.

California Regional Water Quality Control Board

Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.swrcb.ca.gov/rwqcb4

July 29, 2002

Ms. Carole Robbins
PACCAR, Inc.
P.O. Box 1518
Bellevue, WA 98009

REVISED WORK PLAN FOR SUPPLEMENTAL SITE INVESTIGATION – PACCAR, INC. FORMER TRICO INDUSTRIES, 1206 WEST 196TH STREET, TORRANCE, CALIFORNIA (SLIC # 0428)

Dear Ms. Robbins:

During the course of previous investigations of the referenced property, up to 3,700 µg/Kg of Perchloroethylene (PCE) and 1,100 µg/Kg of Trichloroethylene (TCE) were measured in subsurface soils, and up to 15,000 µg/L of PCE and 30,000 µg/L of TCE were identified in groundwater, but the full extent of the contamination had not been defined. Our previous letter dated April 12, 2002, required you to submit a revised workplan incorporating comments outlined in that letter to determine the full lateral and vertical extent of contamination. The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the June 12, 2002, *" Revised Work Plan for Supplemental Site Investigation at the Former Trico Facility at 1206 West 196th Street, Torrance, California," (Revised Workplan)* prepared by Hart Crowser for the referenced site.

Based on our review of the Workplan, we have the following comments:

1. We concur with the proposed soil sampling locations presented in the Revised Workplan to further delineate the lateral and vertical extent of volatile organic compound (VOC) soil impacts. However, we feel that the vertical extent of VOC impact has not been well defined in the CPT-5 area below 42 feet. Prior investigations at this location revealed elevated concentrations of PCE (2,200 ug/Kg) and TCE (540 ug/Kg) at a depth of 42 feet. Hence, deeper soil samples are required to be collected from this sampling location to ascertain the extent of vertical VOC impact to soil. Further concentrations of VOCs in soil sample CPT-15 were not indicated in Figure 7 included with the Revised Workplan. Hence, we feel that borings should be drilled in this area in proximity to locations CPT-5 and CPT-15 to determine both lateral and vertical VOC impacts to soil.

2. Although site historical data shows the groundwater flow direction to be southeasterly, the groundwater contour map, attached as Figure 6 in the Revised Workplan, shows that groundwater at the site is flowing in a southwesterly direction.

3. The northeast corner of the site has not been investigated in prior assessments. Since this corner is adjacent to the Shell Synthetic Rubber Plant, a portion of which has been designated as the Del Amo Superfund site, and is also an upgradient location relative to the most recent groundwater contour map provided in the Revised Workplan, it would be useful to have soil and groundwater analytical data at this location. As indicated on Page 4 of the Revised Workplan, prior site

Please submit the addendum incorporating the above comments to this Regional Board no later than **August 29, 2002.** Should you have any questions related to this project, please contact me at (213) 576-6742, or by e-mail at pguha@rb4.swrcb.ca.gov.

Sincerely,

P. R. Guha Niyogi

Pinaki R. Guha-Niyogi, R.E.A.
Water Resource Control Engineer

cc: Mr. Fred Benz, PACCAR Inc., Bellevue, Washington
Dr. Alistaire Callender, Hart Crowser, Long Beach, California
Mr. Ravi Limaye, Hart Crowser, Long Beach, California

California Regional Water Quality Control Board

Los Angeles Region

Over 50 Years Serving Coastal Los Angeles and Ventura Counties

Recipient of the 2001 *Environmental Leadership Award* from Keep California Beautiful

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

320 W. 4th Street, Suite 200, Los Angeles, California 90013
Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.swrcb.ca.gov/rwqcb4

April 12, 2002

RECEIVED
APR 18 2002
By

Ms. Carole Robbins
PACCAR, Inc.
P.O. Box 1518
Bellevue, WA 98009

WORK PLAN FOR SUPPLEMENTAL SITE INVESTIGATION – PACCAR, INC. FORMER TRICO INDUSTRIES, 1206 WEST 196TH STREET, TORRANCE, CALIFORNIA (SLIC # 0428)

Dear Ms. Robbins:

The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the February 14, 2002, *" Work Plan for Supplemental Site Investigation at the Former Trico Facility at 1206 West 196th Street, Torrance, California," (Workplan)* prepared by Hart Crowser for the referenced site.

During the course of previous investigations of the referenced property, contaminants exceeding the soil screening levels specified in the *"Interim Site Assessment and Cleanup Guidebook, May 1996, California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4"* were identified in soils beneath the site, including up to 3,700 µg/Kg of Perchloroethylene (PCE) and 1,100 µg/Kg of Trichloroethylene (TCE). Also, up to 15,000 µg/L of PCE and 30,000 µg/L of TCE were identified in groundwater.

Based on our review of the Workplan, we have the following comments:

1. The workplan for supplemental site investigation did not include tabular summaries of all relevant soil and groundwater analytical data obtained from prior investigations, soil iso-concentration contours for each contaminant and geologic cross-sections with soil contamination iso-concentrations, as outlined in our letter to you dated September 28, 2001. Also, the proposed soil borings and monitoring wells should have individual identifiers. Please mention which of the eight soil borings are proposed to be converted into monitoring wells.

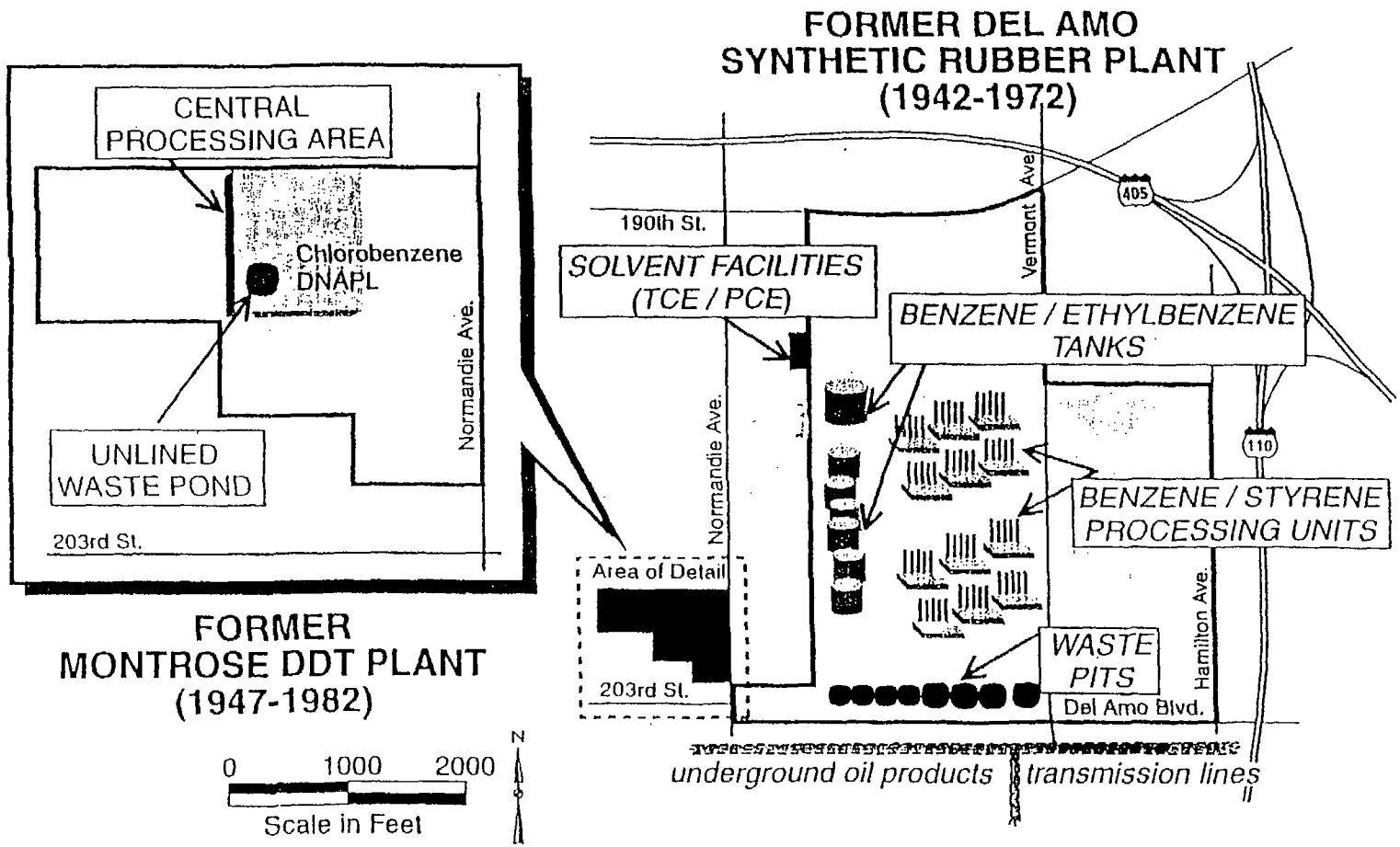
2. As indicated on Page 4 of the Workplan, a total of 70 soil samples will be analyzed for volatile organic compounds (VOCs) in accordance with EPA Method 8260, a total of 16 samples by EPA Method 8270, a total of 16 samples by EPA Method 8080 for PCBs and pesticides, a total of 8 samples by EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons, a total of 8 samples by EPA Method 6000/7000 for Title 22 Metals. Please indicate specifically which samples you intend to analyze by the specified analytical methods. Further, please explain the rationale for analysis of the soil samples by the respective analytical methods.

3. Soil samples collected for VOC analysis must be analyzed using U.S. EPA Method 8260B. All soil samples for VOC analysis must be obtained using U.S. EPA Method 5035 sampling procedures. Method 5035 is specified for soil sample preparation and preservation immediately following sample collection to minimize VOC losses. Laboratory methods, detection limits, and

Appendix B

APPENDIX B

SOURCES OF CONTAMINATION



Montrose and Del Amo Superfund Sites
Dual Site Groundwater Operable Unit Proposed Plan
Technical and Expanded Version
U.S. EPA, Region 9, June 1998

Figure 2: *Sources of Contamination*

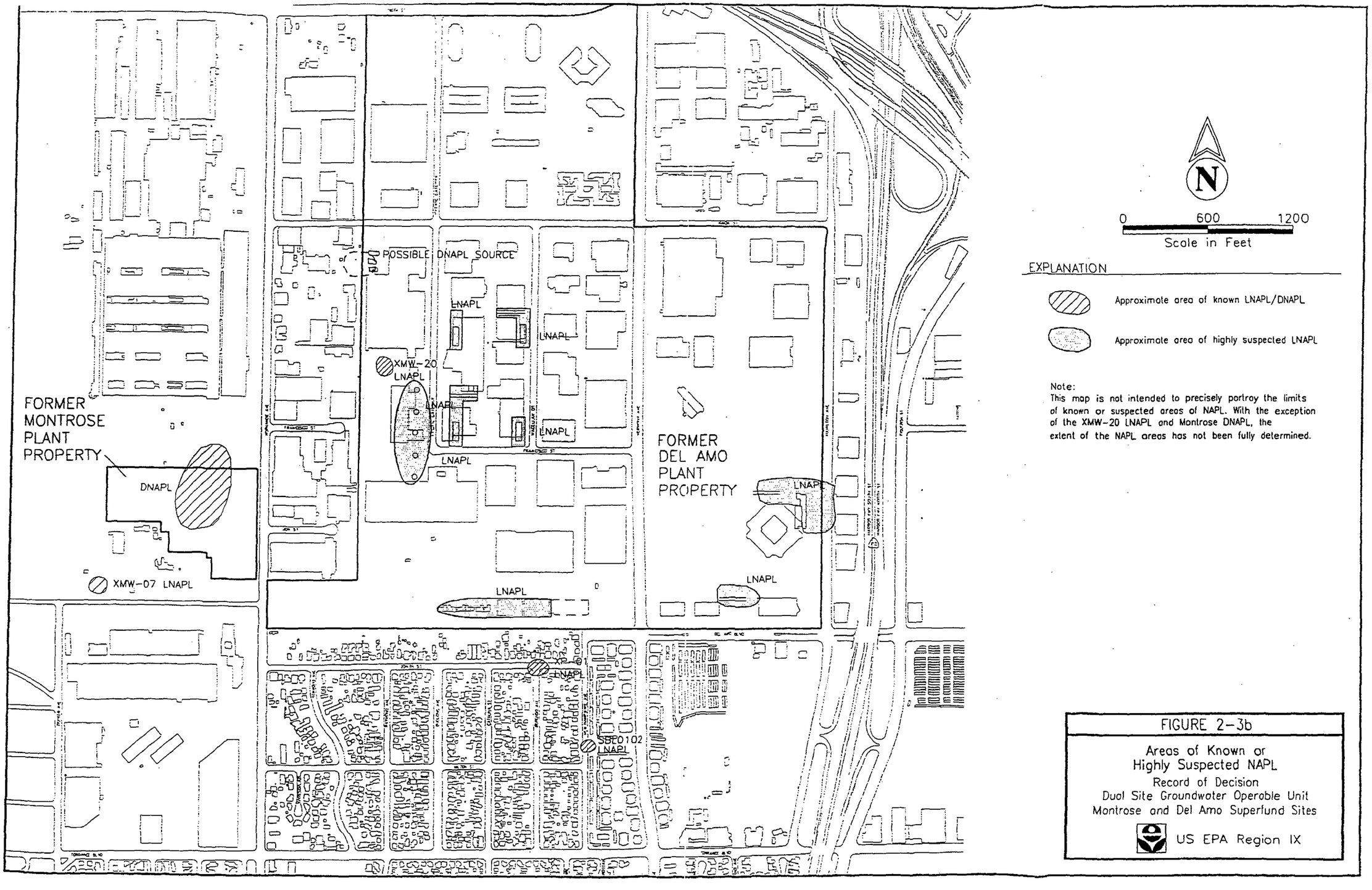
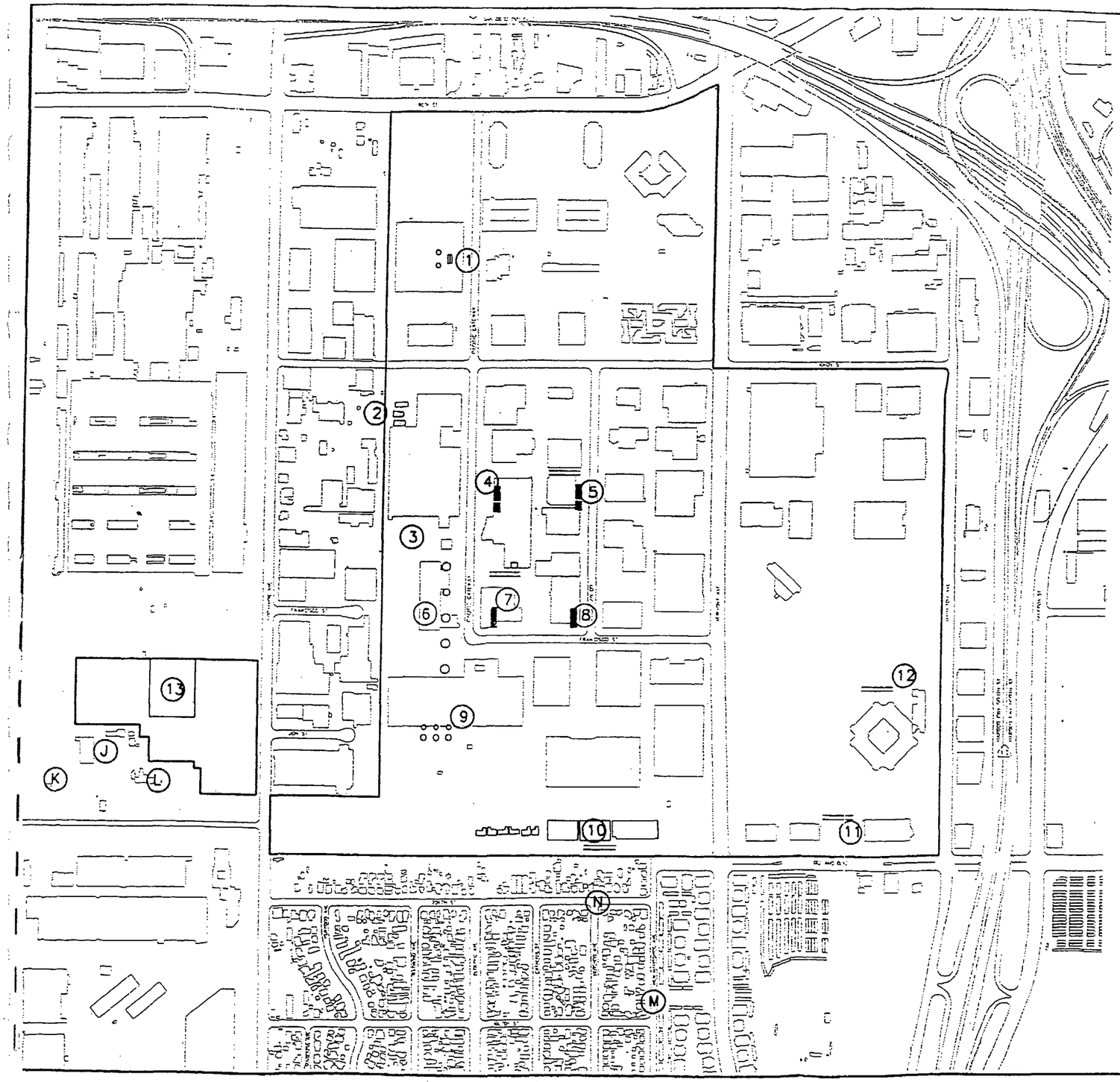


FIGURE 2-3b

Areas of Known or Highly Suspected NAPL
Record of Decision
Dual Site Groundwater Operable Unit
Montrose and Del Amo Superfund Sites

US EPA Region IX



EXPLANATION

(9) Approximate location of groundwater contamination source areas

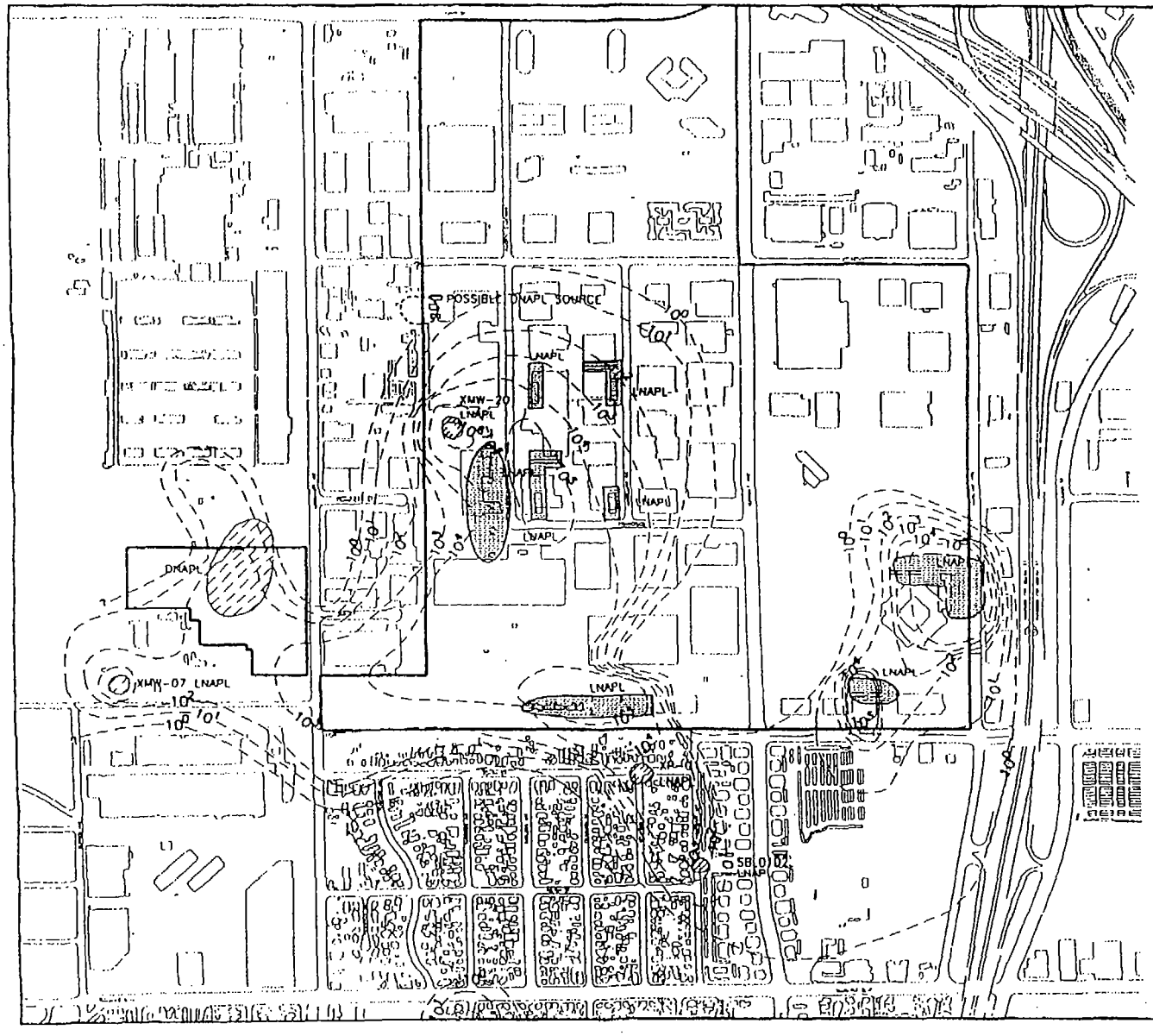
Source Area Number	Suspected Former Source Facility	VOCs with Elevated Concentrations in Groundwater
1	Former Del Amo Plant Property cyclohexane tanks	cyclohexane
2	Former Del Amo Plant Property pits and trenches and/or solvent facility	TCE PCE chloroform
3	Former Del Amo Plant Property XMW-20 LNAPL (benzene tank and/or pipeline)	benzene (LNAPL) toluene ethylbenzene
4	Former Del Amo Plant Property VOC tanks in styrene finishing/benzene purification unit	benzene ethylbenzene cyclohexane
5	Former Del Amo Plant Property VOC tanks and/or underground pipelines in styrene finishing unit	BTEX styrene naphthalene
6	Former Del Amo Plant Property tank farm (VOC storage)	benzene ethylbenzene
7	Former Del Amo Plant Property VOC storage tanks at ethylbenzene production unit #1	benzene ethylbenzene
8	Former Del Amo Plant Property VOC storage tanks at ethylbenzene production unit #2	benzene ethylbenzene phenol
9	Former Del Amo Plant Property "utility tanks"	benzene toluene
10	Former Del Amo Plant Property Waste Pit Area and underground petroleum product pipelines	BTEX naphthalene phenol
11	Former Del Amo Plant Property underground benzene pipeline	benzene phenol(?)
12	Former Del Amo Plant Property laboratory, underground pipelines (?)	BTEX styrene cyclohexane naphthalene
13	Former Montrose Plant Property (DNAPL) central process area	chlorobenzene (DNAPL) benzene
N	Pipelines	benzene naphthalene
K	Pipelines	BTEX 1,1-DCA
J, L	Jones Chemical	TCE, PCE, 1,1-DCE, 1,1-DCA, benzene
M	SBL102 LNAPL	petroleum hydrocarbons

FIGURE 2-3a

Former Montrose and Del Amo Plant Properties Groundwater Contamination Source Areas

Record of Decision
Dual Site Groundwater Operable Unit
Montrose and Del Amo Superfund Sites

US EPA Region IX



0 600 1200
Scale in Feet

EXPLANATION

Approximate area of known LNAPL/DNAPL

Approximate area of highly suspected LNAPL

Benzene concentration isopleth (µg/L)

Note:
This map is not intended to precisely portray the limits of known or suspected areas of NAPL. With the exception of the XMW-20 LNAPL and Montrose DNAPL, the extent of the NAPL areas has not been fully determined.

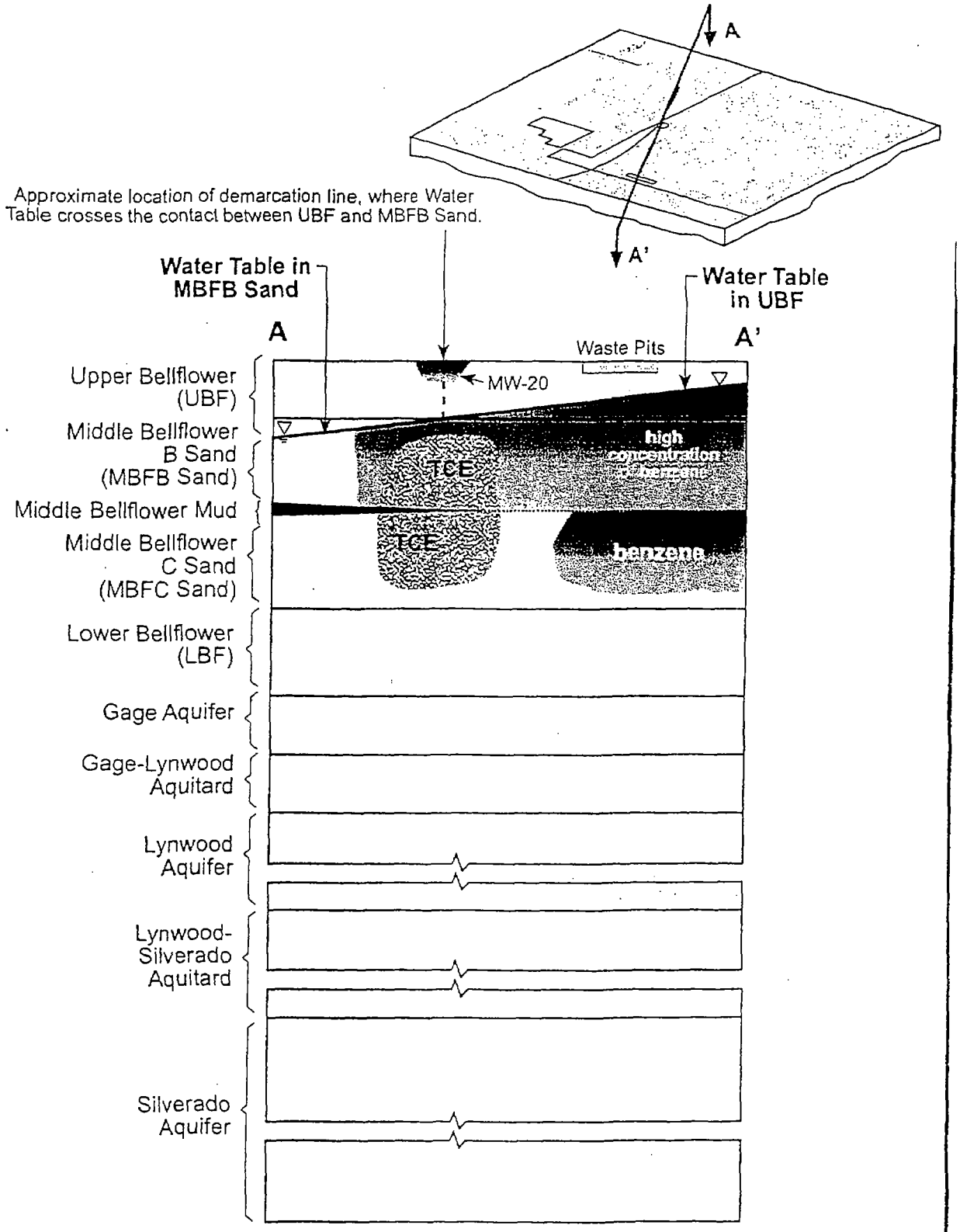
FIGURE 7-3

Benzene Distribution Relative to the Locations of Areas of Known or Highly Suspected NAPL

Record of Decision
Dual Site Groundwater Operable Unit
Montrose and Del Amo Superfund Sites

US EPA Region IX

PACCAR 03441



Conceptual Representation

Not to scale

Figure 7-4
TCE Distribution Relative to Benzene
Record of Decision
Dual Site Groundwater Operable Unit
Montrose and Del Amo Superfund Sites

EPA US EPA Region IX

Appendix C

APPENDIX C

Sample Symbols

- ☐
- ☐
- Ⓢ Sample retained
- Ⓛ Sample retained and selected for laboratory analysis

Water Level Symbols

- ▽ First encountered groundwater level
- ▼ Potentiometric groundwater level

Photoionization Device (PID) Readings

Locations Monitored

- BZ - Breathing zone
- A - Top of auger
- C - Drill cuttings
- S - Sample

Reported in parts per million (ppmv).

ND = non-detect.

All contacts are approximate.

Typical Well Graphic Symbols

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS				SYMBOLS	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO 4 SIEVE SIZE	CLEAN GRAVEL	GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
			GRAVEL WITH FINES	GM	SILTY GRAVELS GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		SAND MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SAND	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SAND WITH FINES	SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE-GRAINED SOILS	MORE THAN HALF OF MATERIAL IS SMALLER THAN NO 200 SIEVE SIZE	SILT and CLAY	LOW LIQUID LIMIT [2]	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
			HIGH LIQUID LIMIT [2]	MH	INORGANIC SILTS MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

Notes:
1. For a complete description of the Unified Soil Classification System, see "Geotechnical Branch Training Manual Nos 4, 5, and 6" published in 1986 by the Bureau of Reclamation, Geotechnical Branch, Division of Research and Laboratory Services, Engineering and Research Center, Denver, Colorado
2. Liquid limit is defined as that moisture content, expressed as a percentage of the dry mass of soil, at which the soil first shows a small but definite shear strength as the moisture is reduced

Report HC4+WELLKEY File PACCAR GPJ 1/14/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Key to Log of Boring

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-01@0.5'	0.0 / 0.1	9,10,11	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
5	S	BL-01@5'	0.6 / 0.6	6,10,9	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
10	S	BL-01@10'	0.0 / 0.0	6,15,17	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
15	S	BL-01@15'	0.0 / 0.0	6,9,15	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
20	S	BL-01@20'	0.0 / 0.0	17,14,18	10YR 3/3, dark brown, clayey SILT, firm, no odor, no discoloration	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times
3. Groundwater encountered at 60.5 ft.

DRILLING PROCESS NOTES:

Date Drilled	12/10/02
Logged By	Ryan Mitcheltree
Drilling Contractor	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter	1.5 inch
Total Depth	61 feet

Report HC4: File PACCAR.GPJ 1/14/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-01
Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-01@25	0.0 / 0.0	21,17,19	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
30	S	BL-01@30'	0.0 / 0.0	3,15,20	10YR 4/3: brown, silty SAND	SM	
35	S	BL-01@35'	0.0 / 0.0	3,14,19	10YR 4/3: brown, silty SAND	SM	
40	S	BL-01@40	0.0 / 0.0	7,18,21	silty SAND, dry, brittle, shell fragments	SM	
45	S	BL-01@45'	0.1 / 0.2	7,9,11	10YR 3/2 very dark grayish brown, clayey SAND, unconsolidated, coarse sand	SC	
50	S	BL-01@50'	0.0 / 0.1	4,6,8	10YR 3/2 very dark grayish brown, clayey SAND, unconsolidated, coarse sand	SC	

Report HCA File PACCAR.GPJ 1/14/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-01
Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-01@55'	0 0 / 0 0	3,4,5	10YR 4/3 brown, silty SAND	SM	
60	S	BL-01@60'	0 0 / 0 0	6,17,18	10YR 4/3 brown, coarse SAND, wet	SP	
					Bottom of boring at 61 feet.		
65							
70							
75							
80							

Report HCA File PACCAR.GPJ 1/14/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-01
Sheet 3 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0	S	BL-02@0.5'	0.0 / 0.1	6,9,10	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
5	S	BL-02@5'	0.0 / 0.0	15,17,18	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
10	S	BL-02@10'	0.0 / 0.1	9,10,11	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
15	S	BL-02@15'	0.0 / 0.1	13,14,15	10YR 4/1 dark gray, dry SILT	ML	
20	S	BL-02@20'	0.0 / 2.1	7,7,9	10YR 3/3 dark brown, CLAY, no odor, no discoloration	CL	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times

DRILLING PROCESS NOTES:

Date Drilled:	12/10/02 and 12/16/02
Logged By:	Ryan Mitcheltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter	1.5 inch
Total Depth:	70 feet

Report HC1 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-02

Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-02@25'	0.0 / 0.0	7,9,10	10YR 3/3 dark brown, CLAY, no odor, no discoloration	CL	
30	S	BL-02@30'	0.0 / 0.0	14,17,20	10YR 4/3, brown, silty SAND	SM	
35	S	BL-02@35'	0.0 / 0.1	9,10,11	10YR 4/3 brown, silty SAND	SM	
40	S	BL-02@40'	0.0 / 0.1	7,9,10	clayey brittle SILT	ML	
45	S	BL-02@45'	0.0 / 0.1	9,10,15	10YR 3/2 very dark grayish brown, clayey SAND, coarse sand	SC	
50	S	BL-02@50'	0.0 / 0.2	20,21,22	10YR 3/2, very dark grayish brown, clayey SAND, coarse sand	SC	

Report HC4 File PACCAR GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-02

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-02@55'	0.1 / 0.1	6,17,18	10YR 4/3 brown, silty SAND	SM	
60	S	BL-02@60'	0.1 / 0.1	9,10,11	10YR 4/3: brown, silty SAND, wet	SM	
65							
70					Bottom of boring at 70 feet		
75					Note: Installed a 10 slot, 10 ft by 2" ID PVC temporary screen from 60 to 70 feet and collected a groundwater sample on 12/16/02.		
80							

Report HCa File PACCAR GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-02

Sheet 3 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0	S	BL 03@0 5'	0 0 / 0 0	7,4,9	10YR 4/3 brown, SILT, no odor, no discoloration	ML	
5	S	BL 03@5'	0 0 / 0 0	6,9,10	10YR 4/3. brown, SILT, no odor, no discoloration	ML	
10	S	BL-03@10'	0 0 / 0 0	9,10,15	10YR 4/3. brown, SILT, no odor, no discoloration	ML	
15	S	BL-03@15'	0 0 / 0 0	7,14,11	10YR 4/3 brown, SILT, no odor, no discoloration	ML	
20	S	BL-03@20'	0 0 / 0 0	15,17,18	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.
3. Groundwater encountered at 60 2 ft.

DRILLING PROCESS NOTES:

Date Drilled:	12/10/02
Logged By:	Ryan Mitcheltree
Drilling Contractor.	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method:	1 5-inch ID * 18" split spoon with 1 5" CBR's
Sample Diameter.	1 5 inch
Total Depth.	61 feet

Report HC4. File PACCAR GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-03

Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-03@25	0.0 / 0.0	19,20,21	10YR 3/3, dark brown, clayey SILT, firm, no odor, no discoloration	ML	
30	S	BL-03@30	0.0 / 0.0	19,20,21	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
35	S	BL-03@35	0.0 / 0.0	14,19,20	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
40	S	BL-03@40	0.0 / 0.0	17,18,19	10YR 4/3 brown, silty SAND, dry	SM	
45	S	BL-03@45	0.0 / 0.0	14,15,16	10YR 3/2, very dark grayish brown, dry coarse SAND	SP	
50	S	BL-03@50	0.0 / 0.0	19,20,21	10YR 3/2, very dark grayish brown, dry coarse SAND	SP	

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-03
Sheet 2 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-03@55'	0.0 / 0.6	22,23,24	10YR 4/3, brown, silty SAND	SM	
60	S	BL-03@60'	0.0 / 0.7	17,19,20	10YR 4/3 brown, SAND, wet Groundwater at 60.2 feet	SP	
					Bottom of boring at 61 feet		
65							
70							
75							
80							

Report HCA File PACCAR GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-03

Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-04@0.5'	0.0 / 0.0	3,6,8	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
5	S	BL-04@5'	0.0 / 0.0	8,11,13	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
10	S	BL-04@10'	0.0 / 0.1	10,11,14	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
15	S	BL-04@15'	2.1 / 3.1	9,11,16	10YR 4/3 brown, silty SAND, stiff, no odor, no discoloration	SM	
20	S	BL-04@20'	0.0 / 0.1	-,16,17	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times

DRILLING PROCESS NOTES:

Date Drilled	12/10/02
Logged By:	Ryan Mitchellree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	61 feet

Report HC4, File PACCAR.GPJ 1/7/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-04
Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-04@25'	0.0 / 0.0	11,17,20	10YR 3/3 dark brown, clayey SILT, firm, no odor, no discoloration	ML	
30	S	BL-04@30'	0.0 / 0.0	11,14,20	10YR 4/3 brown, silty SAND	SM	
35	S	BL-04@35'	0.0 / 0.0	9,12,22	10YR 4/3 brown, silty SAND	SM	
40	S	BL-04@40'	0.0 / 0.1	13,13,13	10YR 4/3 brown, SILT, dry, brittle, shell fragments interbedded with silty sand	ML	
45	S	BL-04@45'	0.1 / 0.2	14,10,15	10YR 3/2 very dark grayish brown, dry coarse SAND, unconsolidated	SP	
50	S	BL-04@50'	0.0 / 13.0	14,15,20	10YR 3/2 very dark grayish brown, dry coarse SAND, unconsolidated	SP	

Report HC4 File PACCAR GPJ 1/27/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-04

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-04@55'	0.0 / 14.9	9,15,20	10YR 4/3: brown, silty SAND	SM	
60	S	BL-04@60'	0.0 / 0.0	16,15,20	10YR 4/3: brown, silty SAND, moist to wet	SM	
					Bottom of boring at 61 feet		
65							
70							
75							
80							

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-04
Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 6" thick	-	
	S	BL-05@0.5'	0.0 / 87	5,5,7	10YR 4/3, brown, silty CLAY, slightly plastic, no odor, no discoloration	CL	
5	S	BL-05@5'	0.0 / 2.0	5,6,7	damp, fine sandy SILT with trace clay	ML	
					--		
10	S	BL-05@10'	0.0 / 1.2	6,10,11	damp, silty fine SAND	SM	
15	S	BL-05@15'	0.0 / 0.1		damp, silty fine SAND with trace clay	SM	
20	S	BL-05@20'	0.0 / 0.0		damp, silty fine SAND with trace clay	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.
3. SWL = 57.9 feet bgs

DRILLING PROCESS NOTES:

Date Drilled:	12/16/02
Logged By:	Ryan Mitchelltree
Drilling Contractor	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	70 feet

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-05
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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-05@25'	0.0 / 0.0		damp, silty fine SAND with trace clay	SM	
30	S	BL-05@30'	0.0 / 1.3	5,15,17	damp, trace clayey silty SAND	SM	
35	S	BL-05@35'	0.0 / 0.0	25,35,38	damp silty firm SAND with shell fragment	SM	
40	S	BL-05@40'	0.0 / 0.0	10,13,18	damp silty very fine to fine SAND with mica flakes	SM	
45	S	BL-05@45'	0.0 / 0.0	10,14,14	damp silty very fine to fine SAND with micra flakes	SM	
50	S	BL-05@50'	0.0 / 0.0	9,10,12	silty fine SAND, moist, with mica flakes	SM	

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Log of Boring BL-05

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-05@55'	0 0 / 0 0	10,11,15	fine to medium SAND, moist with mica flakes	SP	
60	S	BL-05@60	0 0 / 3 1	8,16,27	saturated silty to fine SAND, with mica flakes, saaturated clayey silt at 61 5 feet	SM	
65	S	BL-05@60'	0 0 / 3 1	8,17,23	saturated very fine to fine SAND with trace silt	SP	
70					Bottom of boring at 70 feet.		
75					Note Collected groundwater sample from a temporary well using 10 slot, 2-inch ID by 10-foot PVC well screen and riser.		
80							

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Torrance, California

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-06@0.5'	0.0 / 204	5,9,6	very dark brown, damp, clayey SILT, strong petroleum odor, (13/18" recovery)	ML	
5	S	BL-06@5'	0.0 / 1.5	8,12,15	damp, fine sandy SILT, 18" recovery	ML	
10	S	BL-06@10'	0.0 / 260	9,10,14	damp, fine sandy SILT, strong petroleum odor, , (18" recovery)	ML	
15	S	BL-06@15'	0.0 / 12	9,12,15	damp, silty fine SAND with trace clay, slight petroleum odor, (15/18" recovery)	SM	
20	S	BL-06@20'	0.0 / 9.1	10,15,16	damp, silty fine SAND with trace clay, petroleum odor, (14/18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled	12/13/02
Logged By	Chris Knoche
Drilling Contractor.	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method.	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter.	1.5 inch
Total Depth:	62 feet

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Torrance, California

Project Number: 6999.06

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-06@25	0.0 / 9.7	7,9,10	damp silty fine SAND with trace clay, slight petroleum odor, (18" recovery)	SM	
30	S	BL-06@30'	0.0 / 0.0	8,19,20	damp, silty fine SAND with trace clay, slight petroleum odor, (18" recovery)	SM	
35	S	BL-06@35	0.0 / 5.8	8,10,16	damp, silty fine SAND with trace clay, no unusual odors, (18" recovery)	SM	
40	S	BL-06@40'	0.0 / 0.0	4,10,12	damp silty fine to medium SAND with shell fragments, slight petroleum odor	SM	
45	S	BL-06@45'	0.0 / 7.8	8,15,15	no unusual odors, (18" recovery)		
50	S	BL-06@50'	0.0 / 12.2	6,9,12	damp clayey SILT, FeOx strains, mica flakes, slight petroleum odor, (18" recovery)	ML	

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Torrance, California

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-06@55'	0.0 / 1.5	15,25,30	damp fine to medium SAND with trace silt, FeOx strains, mica flakes, (13/18" recovery)	SM	
60	S	BL-06@60'	0.0 / 6.3	15,45,32	damp fine to medium SAND with trace silt, moist but not saturated, FeOx strains, mica flakes, (18" recovery)	SM	
					Bottom of boring at 62 feet.		
65							
70							
75							
80							

Report HC4 File: PACCAR.GPJ, 1/22/03

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Torrance, California

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-07@0.5'	0.0 / 0.0	3,4,5	dark brown, clayey SILT, damp to moist, no unusual odor	ML	
5	S	BL-07@5'	0.0 / 33	4,6,7	damp clayey SILT	ML	
10	S	BL-07@10'		5,6,8	damp very fine sandy SILT	ML	
15	S	BL-07@15'	0.0 / 0.0	5,6,7	damp fine sandy SILT	ML	
20	S	BL-07@20'	0.0 / 1.5	10,10,14	damp fine sandy SILT	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/16/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	71.5 feet

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Log of Boring BL-07

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-07@25'	0.0 / 0.0	5,9,10	damp fine sandy SILT	ML	
30	S	BL-07@30'	0.0 / 0.0	10,12,13	damp, silty fine SAND	SM	
35	S	BL-07@35'	0.0 / 0.0	10,12,15	damp silty fine SAND	SM	
40	S	BL-07@40'	0.0 / 0.0	9,15,15	damp fine sandy, no unusual odors	SP	
45	S	BL-07@45'	0.0 / 0.0	8,11,12	damp fine sandy SILT with trace clay	ML	
50	S	BL-07@50'	0.0 / 0.0	9,12,15	damp fine sandy SILT with trace clay, no unusual odors	ML	

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-07@55'	0.0 / 2.4	9,15,21	damp silty fine SAND, no unusual odors	SM	
60	S	BL-07@60'	0.0 / 4.7	15,21,22	saturated firm to medium SAND	SP	
65	S	BL-07@65'		14,25,30	saturated silty very fine to fine SAND, no unusual odors	SM	
70	S	BL-07@70'		11,23,39	silty very fine to fine SAND, moist to saturated	SM	
					Bottom of boring at 71.5 feet.		
75					Note. Installed 10-slot 2 -inch by 10-foot temporary PVC screen and riser. Screen installed from 60 to 70 feet bgs		
80							

Report: HC4, File: PACCAR.GPJ 1/22/03

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HARTCROWSER

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Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Concrete 5" thick		
	S	BL-08@0 5'	0.0 / 0.0	12,14,18	clayey SILT, moist, (18" recovery)	ML	
5	S	BL-08@5'	0 0 / 2 1	2,4,6	clayey SILT, damp, (16/18" recovery)	ML	
10	S	BL-08@10'	0 0 / 15	8,12,16	silty very fine SAND, damp, (17/18" recovery)	SM	
15	S	BL-08@15'	0 0 / 0 0	5,7,8	silty very fine SAND, damp, (18" recovery)	SM	
20	S	BL-08@20'	0.0 / 0 1	8,9,12	silty very fine SAND, damp, (16/18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/13/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1 5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1 5 inch
Total Depth:	61 5 feet

Report HC4 File PACCAR GPJ, 1/22/03

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Torrance, California

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Log of Boring BL-08

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-08@25'	0.1 / 0.1	7,12,15	very fine sandy SILT with trace clay, damp, (18" recovery)	ML	
30	S	BL-08@30'	0.2 / 0.1	7,10,13	silty very fine to fine SAND, damp, (18" recovery)	SM	
35	S	BL-08@35'	0.0 / 0.1	13,13,13	silty very fine to fine SAND, damp, (18" recovery)	SM	
40	S	BL-08@40'	0.0 / 0.2	9,14,17	silty fine to medium SAND, mica flakes, some shell fragments, damp, (18" recovery)	SM	
45	S	BL-08@45'	0.0 / 2.1	10,18,20	silty very fine SAND, mica flakes, damp, (18" recovery)	SM	
50	S	BL-08@50'	0.1 / 2.5	9,12,18	light gray, clayey SILT, FeOx stains, (18" recovery)	ML	

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Log of Boring BL-08

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-08@55'	0 0 / 7.1	9,17,22	gray, silty very fine SAND with trace clay, mica flakes, (15/18" recovery)	SM	
60	S	BL-08@60'	0 0 / 7.2	19,21,28	saturated fine to medium SAND with trace silt, mica flakes, no unusual odors, (16/18" recovery)	SM	
					Bottom of boring at 62 feet.		
65							
70							
75							
80							

Report HC4 File: PACCAR.GPJ 1/22/03

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HARTCROWSER

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Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick		
	S	BL-09@0 5'	0.0 / 0.0	3,5,9	silty CLAY, medium plasticity, moist	CL	
5	S	BL-09@5'	0.0 / 0.0	6,9,12	clayey SILT, low plasticity, damp	ML	
10	S	BL-09@10'	0.0 / 0.0	7,10,13	very fine sandy SILT, damp	ML	
15	S	BL-09@15'	0.0 / 0 0	9,12,14	very fine sandy SILT, damp	ML	
20	S	BL-09@20'	0.0 / 0 0	8,11,13	very fine sandy SILT, damp	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.
3. SWL = 57 2 feet bgs. measured on 12/17/02.

DRILLING PROCESS NOTES:

Date Drilled:	12/17/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method:	1 5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1 5 inch
Total Depth:	71.5 feet

Report HC4 File: PACCAR GPJ, 1/22/03

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-09@25'	0.0 / 0.0	9,12,17	very fine sandy SILT, damp	ML	
30	S	BL-09@30'	0.0 / 0.0	7,11,14	clayey SILT with trace fine sand, damp	ML	
35	S	BL-09@35'	0.0 / 0.0	9,18,24	silty fine SAND, with mica flakes, damp	SM	
40	S	BL-09@40'	0.0 / 0.0	9,12,16	silty fine SAND, with mica flakes, damp, no shell fragment observed, (18" recovery)	SM	
45	S	BL-09@45'	0.0 / 0.0	7,11,14	silty fine SAND, with mica flakes, damp, no shell fragment observed, (18" recovery)	SM	
50	S	BL-09@50'	0.0 / 0.0	7,14,19	silty fine SAND, with mica flakes, damp, no shell fragment observed, (18" recovery)	SM	

Report: HCA File: PACCAR.GPJ 1/22/03

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-09@55'	0.0 / 0.0	8,10,11	silty fine SAND, with mica flakes, damp, no shell fragment observed, (18" recovery)	SM	
60	S	BL-09@60'	0.0 / 0.0	14,22,33	saturated fine to medium SAND, (18" recovery)	SP	
65	S	BL-09@65'		13,13,16	saturated fine to medium SAND with trace SILT	SM	
70	S	BL-09@70'		14,16,17	silty fine SAND, saturated	SM	
					Bottom of boring at 71.5 feet		
75					Note: Installed 10-slot 2-inch by 10-foot temporary PVC screen and riser. Screen installed from 58.5 to 68.5 feet bgs		
80							

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-10@0 5'	0 0 / 0.0	4,5,7	dark brown, clayey SILT, (18" recovery)	ML	
5	S	BL-10@5'	0 0 / 0 0	7,11,14	silty very fine SAND with trace clay, damp, (18" recovery)	SM	
10	S	BL-10@10'	0.0 / 10	8,12,18	silty very fine SAND with trace clay, damp, (18" recovery)	SM	
15	S	BL-10@15'	0.0 / 0.0	9,12,16	clayey SILT, damp, (18" recovery)	ML	
20	S	BL-10@20'	0 0 / 5.1	9,15,19	very fine sandy SILT, damp, (15/18" recovery)	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled	12/13/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method:	1 5-inch ID * 18" split spoon with 1 5" CBR's
Sample Diameter	1.5 inch
Total Depth:	60 5 feet

Report HC4: File PACCAR GPJ 1/22/03

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Log of Boring BL-10

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-10@25'	0.0 / 10	7,11,21	clayey SILT, damp, (18" recovery)	ML	
30	S	BL-10@30'	0.0 / 0.0	8,14,19	clayey SILT, damp, (15/18" recovery)	ML	
35	S	BL-10@35'	0.0 / 0.1	8,12,16	silty very fine SAND, damp, (18" recovery)	SM	
40	S	BL-10@40'	0.0 / 0.0	11,18,19	silty fine to medium SAND with shell fragments, damp, (18" recovery)	SM	
45	S	BL-10@45'	0.0 / 0.1	11,18,21	silty very fine to fine SAND with trace clay, mica flakes, damp, (16/18" recovery)	SM	
50	S	BL-10@50'	0.0 / 0.1	9,17,19	gray, clayey SILT, mica flakes, damp, FeOx stains, (18" recovery)	ML	

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-10@55'	0.0 / 0.6	7,15,22	clayey silty very fine to fine SAND, damp, FeOx stains, mica flakes	SM	
60	S	BL-10@60'	0.1 / 0.1	11,25,27	saturated fine to medium SAND with trace silt	SP	
					Bottom of boring at 61.5 feet.		
65							
70							
75							
80							

Report HC4 File: PACCAR.GPJ 1/22/03

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Torrance, California

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-11@0.5'	0.0 / 0.0	4,6,10	dark brown, clayey SILT, medium plasticity, moist	ML	
5	S	BL-11@5'	0.0 / 0.0	6,7,10	brown, clayey SILT, medium plasticity, damp, (18" recovery)	ML	
10	S	BL-11@10'	0.0 / 0.0	6,9,9	silty fine SAND with some clay, low plasticity, damp, (18" recovery)	SM	
15	S	BL-11@15'	0.0 / 0.0	5,8,10	silty fine SAND, low plasticity, damp, (18" recovery)	SM	
20	S	BL-11@20'	0.0 / 0.0	8,11,14	silty fine SAND, damp, (18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times
3. SWL = 57.0 feet bgs measured on 12/17/02.

DRILLING PROCESS NOTES:

Date Drilled	12/17/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	70.5 feet

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Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-11
Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-11@25'	0.0 / 1.0	6,9,11	silty fine SAND with trace clay, slightly plastic, damp, (18" recovery)	SM	
30	S	BL-11@30'	0.0 / 0.0	8,6,12	silty fine SAND with trace clay and mica flakes, slightly plastic, damp, (18" recovery)	SM	
35	S	BL-11@35'	0.0 / 0.0		silty fine SAND with trace clay and mica flakes, slightly plastic, damp, (18" recovery)	SM	
40	S	BL-11@40'	0.0 / 0.0	15,15,15	silty fine to medium SAND with shell fragments, damp, (10/18" recovery)	SM	
45	S	BL-11@45'	0.0 / 0.0	11,13,15	silty fine SAND with mica flakes, damp, (16/18" recovery)	SM	
50	S	BL-11@50'	0.0 / 0.3	11,12,14	silty fine SAND with mica flakes, damp, (17/18" recovery).	SM	

Report HC4 File PACCAR GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-11

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-11@55'	0.0 / 0.9	8,11,16	silty fine SAND with mica flakes, damp, (17/18" recovery)	SM	
60	S	BL-11@60'	0.0 / 0.4	11,15,18	saturated fine to medium SAND with mica flakes	SP	
65	S	BL-11@65'		17,28,46	saturated fine to medium SAND with mica flakes	SP	
70	S	BL-11@70'			silty fine SAND, moist	SM	
					Bottom of boring at 70.5 feet.		
75					Note: Collected a groundwater sample from a temporary well casing using 10 slot, 2-inch ID by 10-foot PVC screen riser. Screened from 60 to 70 feet bgs.		
80							

Report, HC4, File PACCAR.GPJ, 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

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HARTCROWSER

Log of Boring BL-11

Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick	-	
	S	BL-12@0.5'	0.0 / 0.0	4,8,10	clayey SILT, medium plasticity, damp, (18" recovery)	ML	
5	S	BL-12@5'	0.0 / 0.0	7,13,17	clayey SILT, medium plasticity, damp, (18" recovery)	ML	
10	S	BL-12@10'	0.0 / 0.0	6,8,11	silty fine SAND, damp, (13/18" recovery)	SM	
15	S	BL-12@15'	0.0 / 0.0	6,9,15	silty fine SAND, damp, (18" recovery)	SM	
20	S	BL-12@20'	0.0 / 0.0	10,12,13	gray, silty fine SAND, damp, (14/18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/17/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	66.5 feet

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Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-12

Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-12@25'	0.0 / 0.0		silty fine SAND with trace clay, damp, (16/18" recovery)	SM	
30	S	BL-12@30'	0.0 / 0.0	7,10,12	silty fine SAND with trace clay, damp, (14/18" recovery)	SM	
35	S	BL-12@35'	0.0 / 0.0	7,8,12	silty fine SAND with minor clay, damp	SM	
40	S	BL-12@40'	0.0 / 0.0		silty fine SAND with minor clay and mica flakes, damp, (18" recovery)	SM	
45	S	BL-12@45'	0.0 / 0.0		clayey SILT with mica flakes, medium plasticity, damp, (14/18" recovery)	ML	
50	S	BL-12@50'	0.0 / 0.0	7,8,12	silty fine SAND with mica flakes, damp, (17/18" recovery)	SM	

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

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Log of Boring BL-12

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-12@55'	0.0 / 0.0	10,26,37	fine to medium SAND with trace silt, damp to moist, (18" recovery)	SM	
60	S	BL-12@60'	0.0 / 0.0	8,14,21	saturated fine SAND layers of silty very fine sand with mica flakes, (18" recovery)	SM	
65	S	BL-12@65'		9,15,21	saturated fine SAND layers of silty very fine sand with mica flakes	SM	
					Bottom of boring at 66.5 feet		
70							
75					Note: Installed 10-slot 2 -inch by 10-foot temporary PVC screen and riser. Screen installed from 56.5 to 66.5 feet bgs		
80							

Report HCA File PACCAR.GPJ; 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-12

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick		
	S	BL-13@0.5'	0.1 / 0.0	12,12,16	dark brown, clayey SILT, damp	ML	
5	S	BL-13@5'	0.0 / 0.0	15,30,30	very fine sandy SILT with trace clay, damp	ML	
10	S	BL-13@10'	0.0 / 0.0	10,14,15	very fine sandy SILT with trace clay, damp	ML	
15	S	BL-13@15'	0.0 / 0.0	10,13,15	SILT, damp	ML	
20	S	BL-13@20'	0.0 / 0.0	15,20,21	very fine sandy SILT with trace clay, damp	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled	12/13/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	61.5 feet

Report HCA File PACCAR.GPJ 1/22/03

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Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-13
Sheet 1 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-13@25'	0.0 / 0.0	9,12,14	very fine sandy SILT with trace clay, damp	ML	
30	S	BL-13@30'	0.0 / 0.0	10,12,10	silty very fine to fine SAND with trace clay, damp, (14/18" recovery)	SM	
35	S	BL-13@35'	0.0 / 0.0	7,15,17	silty fine SAND, damp, (13/18" recovery)	SM	
40	S	BL-13@40'	0.0 / 0.0	50,50/5"	silty fine to medium SAND with shell fragments, damp	SM	
45	S	BL-13@45'	0.1 / 0.2	11,13,18	very fine to fine sandy clayey SILT, damp	ML	
50	S	BL-13@50'	0.1 / 0.2	8,10,17	clayey SILT with trace fine SAND, damp	ML	

Report HC4, File PACCAR.GPJ, 1/22/03

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Log of Boring BL-13
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HARTCROWSER

PACCAR 03483

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-13@55'	0.1 / 0.2	9,14,21	silty fine SAND, damp	SM	
60	S	BL-13@60'	0.0 / 0.0	17,30,37	saturated fine to medium SAND with trace silt	SM	
					Bottom of boring at 61.5 feet.		
65							
70							
75							
80							

Report HC4, File PACCAR.GPJ, 1/22/03

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HARTCROWSER

Log of Boring BL-13
Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Concrete 5" thick		
	S	BL-14@0.5'	0.0 / 0.0	6,11,15	dark brown, silty CLAY, medium plasticity, damp, (18" recovery)	CL	
5	S	BL-14@5'	0.0 / 0.0	7,11,18	fine sandy SILT with trace clay, damp, (18" recovery)	ML	
10	S	BL-14@10'	0.0 / 0.1	9,11,13	silty fine SAND, damp, (18" recovery)	SM	
15	S	BL-14@15'	0.2 / 0.1	10,12,17	silty fine SAND, damp, (15/18" recovery)	SM	
20	S	BL-14@20'	0.0 / 2.0	7,13,17	silty SAND with trace clay, damp, (18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.
3. SWL = 58.6 feet bgs on 12/18/02.

DRILLING PROCESS NOTES:

Date Drilled:	12/18/02
Logged By:	Chris Knoche
Drilling Contractor:	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth:	71.5 feet

Report HCA, File PACCAR GPJ, 1/22/03

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Torrance, California

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HARTCROWSER

Log of Boring BL-14
Sheet 1 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-14@25'	0.0 / 0.2	6,10,10	silty SAND with trace clay, damp, (15/18" recovery)	SM	
30	S	BL-14@30'	0.2 / 2.0	10,20,24	fine SAND with trace silt, damp, (18" recovery)	SM	
35	S	BL-14@35'	0.1 / 0.2	11,22,30	silty SAND, damp, (18" recovery)	SM	
40	S	BL-14@40'	0.1 / 0.0	8,16,18	silty fine to medium SAND with shell fragments, damp, (13/18" recovery)	SM	
45	S	BL-14@45'	0.0 / 0.0	9,23,40	silty fine SAND with mica flakes, damp	SM	
50	S	BL-14@50'	0.0 / 0.0	8,12,17	silty fine SAND with trace clay and mica flakes, damp, low plasticity	SM	

Report HC4, File PACCAR GPJ, 1/22/03

Project: PACCAR - Former Trico Facility
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HARTCROWSER

Log of Boring BL-14
Sheet 2 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-14@55'	0 0 / 0 0	9,18,29	silty fine SAND with mica flakes, damp, low plasticity	SM	
60	S	BL-14@60'	0 0 / 0 0	14,29,36	saturated fine to medium SAND with mica flakes and FeOx stains	SP	
65	S	BL-14@65'		9,24,25	saturated fine to medium SAND with mica flakes and FeOx stains	SP	
70	S	BL-14@70'		12,14,19	saturated silty fine SAND with mica flakes and FeOx stains	SM	
					Bottom of boring at 71.5 feet.		
75					Note: Installed 10-slot 2 -inch by 10-foot temporary PVC screen and riser. Screen installed from 58 3 to 68.3 feet bgs		
80							

Report HC4 File PACCAR.GPJ 1/22/03

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Log of Boring BL-14

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Concrete 5" thick		
	S	BL-15@0.5'	0 0 / 0 0	4,6,8	clayey SILT, moist, low plasticity, (18" recovery)	ML	
5	S	BL-15@5'	0 0 / 0 0	7,11,15	clayey SILT, damp, (18" recovery)	ML	
10	S	BL-15@10'	0 0 / 0 0	8,12,14	clayey silty fine to medium SAND with mica flakes, damp, (16/18" recovery)	SM	
15	S	BL-15@15'	0 0 / 0 6	8,11,22	very fine sandy SILT, damp, (12/18" recovery)	ML	
20	S	BL-15@20'	0 0 / 0.1	8,13,17	silty very fine to fine SAND, damp, (16/18" recovery)	SM	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of *descriptive terms and symbols.*
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled	12/12/02
Logged By	*Chris Knoche*
Drilling Contractor	California Pacific Drilling
Drilling Method	Hollow-Stem Auger
Sampling Method	1 5-inch ID * 18" split spoon with 1 5" CBR's
Sample Diameter	1 5 inch
Total Depth	61.5 feet

Report: HC4 File: PACCAR GPJ 1/22/03

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Torrance, California

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Log of Boring BL-15

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-15@25'	0.0 / 2.5	9,13,15	very fine sandy SILT, damp, (16/18" recovery)	ML	
30	S	BL-15@30'	0.0 / 2.1	8,15,18	silty fine to medium SAND with mica flakes, damp, (18" recovery)	SM	
35	S	BL 15@35'	0.0 / 2.7	11,13,16	very fine to fine SAND with mica flakes, damp, (15/18" recovery)	SP	
40	S	BL-15@40'	0.0 / 2.1	9,13,14	silty fine to medium SAND with shell fragments, damp to moist, (14/18" recovery)	SM	
45	S	BL-15@45'	0.1 / 2.7	10,15,25	clayey SILT, damp, hard, (15/18" recovery)	ML	
50	S	BL-15@50'	0.1 / 5.9	9,14,19	clayey SILT with FeOx stains, damp, hard, (18" recovery)	ML	

Report HC4 File PACCAR GPJ 1/22/03

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HARTCROWSER

Log of Boring BL-15
Sheet 2 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-15@55'	0.1 / 9.1	11,19,21	clayey SILT, damp, Mn stains, (18" recovery)	ML	
60	S	BL-15@60'	0.1 / 3.1	12,27,31	saturated silty fine to medium SAND	SM	
					Bottom of boring at 61.5 feet.		
65							
70							
75							
80							

Report HC4 File PACCAR GPJ 1/22/03

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Log of Boring BL-15

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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0	S	BL-16@0.5'	0.1 / 21	7,9,10	silty CLAY, damp, (18" recovery)	CL	
5	S	BL-16@5'	0.0 / 2.1	9,8,18	silty CLAY, damp, (18" recovery)	CL	
10	S	BL-16@10'	0.0 / 0.1	10,14,16	very fine sandy SILT, damp, (18" recovery)	ML	
15	S	BL-16@15'	0.0 / 0.1	9,10,15	very fine sandy SILT, damp, (18" recovery)	ML	
20	S	BL-16@20'	0.0 / 0.1	11,14,20	SILT, damp, (18" recovery)	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times

DRILLING PROCESS NOTES:

Date Drilled:	12/11/02
Logged By:	Chris Knoche/ Ryan Mitchelltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth	61.5 feet

Report: HC4 File: PACCAR.GPJ 1/22/03

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Log of Boring BL-16
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HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-16@25'	0.2 / 0.1	8,10,14	SILT, damp, (18" recovery)	ML	
30	S	BL-16@30'	0.0 / 0.0	10,14,19	clayey SILT, damp, (18" recovery)	ML	
35	S	BL-16@35'	0.0 / 0.0	10,20,34	(18" recovery)		
40	S	BL-16@40'	0.0 / 0.1	16,20,23	silty fine SAND, damp, (16" recovery)	SM	
45	S	BL-16@45'	0.1 / 0.1	14,14,26	damp, (14/18" recovery)		
50	S	BL-16@50'	0.1 / 0.1	10,18,19	gray, clayey SILT, damp, (18" recovery)	ML	

Report HCA; File PACCAR GPJ; 1/22/03

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HARTCROWSER

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Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-16@55'	0.2 / 0.2	15,26,30	very fine sandy SILT, moist, (16/18" recovery)	ML	
60	S	BL-16@60'	0.0 / 2.1	14,24,32	silty fine SAND, moist	SM	
					Bottom of boring at 61.5 feet.		
65							
70							
75							
80							

Report HC4 File PACCAR GPJ 1/22/03

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Log of Boring BL-16

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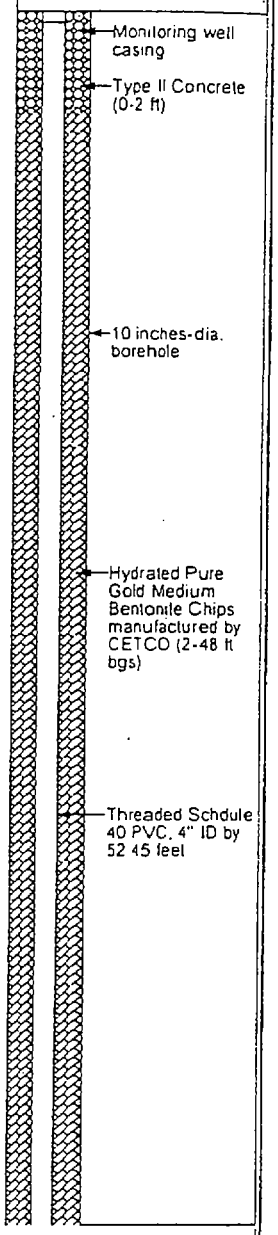
HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Number	Blows per 6 inches	Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0	S	BL-17@0.5'		0.0 / 0.1	dark brown, clayey SILT, no discoloration, no odor	ML	
5	S	BL-17@5'		0.0 / 0.0	brown, fine clayey SILT, no discoloration, no odor	ML	
10	S	BL-17@10'		0.0 / 0.0	light brown, SILT, no discoloration, no odor	ML	
15	S	BL-17@15'		0.0 / 0.2	light brown, SILT, no discoloration, no odor	ML	
20	S	BL-17@20'		0.0 / 0.1	brown, fine SAND with some clayey silt, no discoloration, no odor	SP	
25							



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.
3. bgs = below ground surface

DRILLING PROCESS NOTES:

Date Drilled:	12/24/02
Logged By:	Ryan Mitcheltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon
Sample Diameter:	1.5 inch
Total Depth:	69 feet

Report HC4-WELL File PACCAR.GPJ 1/22/03

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Log of Boring BL-17/ MW-8
Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
25	S	BL-17@25'		0.0 / 0.0	light brown, fine clayey SILT, no discoloration, no odor	ML
30	S	BL-17@30'		0.0 / 0.0	light brown, SILT, no discoloration, no odor	ML
35	S	BL-17@35'		0.0 / 0.0	light brown, SILT, no discoloration, no odor	ML
40	S	BL-17@40'		0.0 / 0.0	light brown reddish brown, medium silty SAND, no discoloration, no odor	SM
45	S	BL-17@45'		0.0 / 0.1	light reddish brown, medium SAND, some moisture, no discoloration, no odor	SP
50	S	BL-17@50'		0.0 / 0.2	light reddish brown, medium SAND, some moisture, no discoloration, no odor	SP

WELL CONSTRUCTION

- 10 inches-dia. borehole
- Bentonite Chips manufactured by CETCO (2-48 ft bgs)
- Threaded Schdule 40 PVC, 4" ID by 52.45 feet
- Sand #3 (48-69 ft bgs)

Report HC4+WELL; File: PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

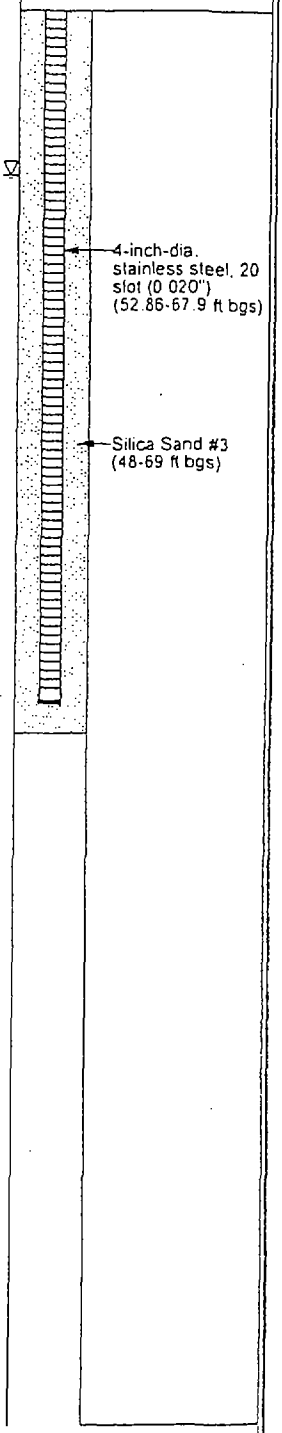
Log of Boring BL-17/ MW -8

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-17@55'		0.0 / 0.0	light reddish brown, silty SAND, no discoloration, no odor	SM	
60	S	BL-17@60'		0.0 / 0.0	light brown to olive brown, fine silty SAND, some moisture, no discoloration, no odor	SM	
65							
					Bottom of boring at 69 feet.		
70							
75					Note. Monitoring Well MW-8 is installed in soil boring BL-17.		
80							

WELL CONSTRUCTION



Report HC4-WELL File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-17/ MW -8

Sheet 3 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 5" thick		
	S	BL-18@0.5'	0.0 / 0.0	6,7,12	very dark brown, clayey SILT, moist, (18" recovery)	ML	
5	S	BL-18@5'	0.0 / 0.1	9,10,14	very fine sandy SILT with trace clay, damp, (18" recovery)	ML	
10	S	BL-18@10'	0.0 / 2.1	8,12,15	silty very fine SAND, damp, (18" recovery)	SM	
15	S	BL-18@15'	0.0 / 5.7	8,12,20	silty very fine SAND, damp, (18" recovery)	SM	
20	S	BL-18@20'	0.0 / 7.1	7,7,11	clayey SILT, damp, low plasticity, (18" recovery)	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/12/02
Logged By:	Chris Knoche/ Ryan Mitchelltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter:	1.5 inch
Total Depth	71.5 feet

Report: HC4 File: PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-18

Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-18@25'	0.0 / 6.6	6,8,12	clayey SILT (less clay), damp, low plasticity, (16/18" recovery)	ML	
30	S	BL-18@30'	0.0 / 1.8	14,20,22	silty fine to medium SAND, damp, (14/18" recovery)	SM	
35	S	BL-18@35'	0.0 / 3.9	9,15,24	silty very fine SAND, damp, (14/18" recovery)	SM	
40	S	BL-18@40'	0.0 / 9.2	13,21,23	silty fine SAND, damp	SM	
45	S	BL-18@45'	0.0 / 8.1	8,9,17	shell fragment clayey SILT with some very fine sand	- ML	
50	S	BL-18@50'	0.0 / 4.8	8,9,14	clayey SILT, damp, (18" recovery)	ML	

Report HC4 File: PACCAR GPJ; 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-18

Sheet 2 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-18@55'	0.0 / 8.3	16,20,22	fine SAND, damp	SP	
60	S	BL-18@60'	0.0 / 6.9	16,20,25	moist to saturated silty very fine to fine SAND	SM	
65	S		0.0 / 9.1	9,17,21	saturated silty very fine to fine SAND	SM	
					moist silty very fine SAND	SM	
70	S		0.0 / 8.8	14,20,27	moist to saturated fine SAND	SP	
					Bottom of boring at 71.5 feet.		
75					Note Installed 10-slot 2 -inch by 10-foot temporary PVC screen and riser. Screen installed from 59 to 69 feet bgs		
80							

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-18
Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0					Asphalt 6" thick		
	S	BL-19@0 5'	0.0 / 0.0	5,7,9	clayey SILT, moist	ML	
5	S	BL-19@5'	0.0 / 0.0	7,9,16	clayey SILT, moist	ML	
10	S	BL-19@10'	0 0 / 0 1	7,10,19	very fine sandy SILT, damp	ML	
15	S	BL-19@15'	0 0 / 1.0	7,10,11	very fine sandy SILT, damp	ML	
20	S	BL-19@20'	0 0 / 0.1	12,18,18	very fine sandy SILT with trace clay, damp	ML	
25							

Report HC4 File PACCAR.GPJ 1/22/03

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/11/02
Logged By:	Chris Knoche/ Ryan Mitcheltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	1 5-inch ID * 18" split spoon with 1 5" CBR's
Sample Diameter:	1 5 inch
Total Depth:	69 feet

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-19
Sheet 1 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-19@25'	0.0 / 0.2	10,15,17	clayey SILT, damp	ML	
30	S	BL-19@30'	0.0 / 2.0		fine to medium SAND, damp, (0.1' recovery - insufficient recovery for samples)	SP	
35	S	BL-19@35'	0.1 / 2.1	10,15,18	fine to medium SAND with trace silt, damp	SM	
40	S	BL-19@40'	0.0 / 0.7	15,17,24	silty fine SAND with white shell fragments, damp, (14/18" recovery)	SM	
45	S	BL-19@45'	0.0 / 0.0	9,16,17	clayey SILT with mica flakes, damp, (18" recovery)	ML	
50	S	BL-19@50'	0.0 / 0.1	8,12,17	clayey SILT with FeOx stains, dry to damp, (14/18" recovery)	ML	

Report HC4 File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-19

Sheet 2 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-19@55'	0.0 / 0.1	8,11,17	SILT with trace clay and very fine sand, damp, (18" recovery)	ML	
60	S	BL-19@60'	0.0 / 2.7	13,27,29	moist to saturated silty fine to medium SAND, (18" recovery)	SM	
65							
					Bottom of boring at 69 feet.		
70							
75					Note: Installed Hydropunch tool with 10-slot 1-inch by 4-foot temporary PVC screen from 65 to 69 feet bgs		
80							

Report HCA File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-19
Sheet 3 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
0	S	BL-20@0.5'	0.0 / 0.0	7,11,13	dark brown, clayey SILT, damp, (18" recovery)	ML	
5	S	BL-20@5'	0.0 / 0.0	10,18,20	silty fine to medium SAND, damp, (18" recovery)	SM	
10	S	BL-20@10'	0.0 / 0.8	10,13,20	clayey SILT, damp	ML	
15	S	BL-20@15'	0.0 / 0.0	12,16,19	silty very fine SAND, damp	SM	
20	S	BL-20@20'	0.0 / 0.0	7,10,16	clayey SILT, damp, (18" recovery)	ML	
25							

NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols
2. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	12/12/02
Logged By:	Chris Knoche/ Ryan Mitcheltree
Drilling Contractor:	California Pacific Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method	1.5-inch ID * 18" split spoon with 1.5" CBR's
Sample Diameter	1.5 inch
Total Depth	71.5 feet

Report HC4; File: PACCAR.GPJ; 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-20
Sheet 1 of 3

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
25	S	BL-20@25'	0.0 / 0.0	6,8,11	clayey SILT, damp, (18" recovery)	ML	
30	S	BL-20@30'	0.0 / 0.0	15,35,38	silty fine to medium SAND, damp, (14/18" recovery)	SM	
35	S	BL-20@35'	0.0 / 0.0	9,14,19	clayey SILT, damp, (14/18" recovery)	ML	
40	S	BL-20@40'	0.0 / 0.0	8,20,22	silty very fine to fine SAND with shell fragments, damp	SM	
45	S	BL-20@45'	0.0 / 0.0	12,14,15	silty very fine SAND, damp	SM	
50	S	BL-20@50'	0.0 / 30.0	8,14,33	silty very fine SAND with FeOx stains, damp	SM	

Report HCA, File PACCAR.GPJ 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

HARTCROWSER

Log of Boring BL-20

Sheet 2 of 3

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Ambient / Headspace PID (ppmv)	Remarks: Standard Penetration Test (SPT)	Geologic Description	Unified Soil Classification Code (USCS)	Lithology
55	S	BL-20@55'	0 0 / 10.0	10,20,32	very fine to fine SAND with trace clay, FeOx stains and mica flakes, damp, (15/18" recovery)	SC	
60	S	BL-20@60'	0 0 / 19.1	16,25,30	moist to saturated fine to medium SAND with mica flakes, (18" recovery)	SP	
65							
	S			9,20,26	saturated fine to medium SAND with mica flakes	SP	
					saturated silty very fine SAND with trace clay and mica flakes	SM	
70	S			27,50/6"	moist to saturated silty very fine SAND with trace clay and mica flakes	SM	
					Bottom of boring at 71.5 feet.		
75					Note: Installed 10-slot 2 -inch by 10-foot temporary PVC screen and riser. Screened from 60 to 70 feet bgs		
80							

Report HC4 File PACCAR GPJ, 1/22/03

Project: PACCAR - Former Trico Facility
1206 West 196th Street
Torrance, California

Project Number: 6999.06

Log of Boring BL-20

Sheet 3 of 3

HARTCROWSER

Appendix D

APPENDIX D

WELL PERMIT APPLICATION - NON-PRODUCTION WELLS

WATER & SEWAGE / MOUNTAIN & RURAL PROGRAMS - ENVIRONMENTAL HEALTH DIVISION
5050 COMMERCE DRIVE, BALDWIN PARK, CA 91706 (626) 430-5380 FAX (626) 813-3036

DATE: 12-04-02

✓ NEW WELL CONSTRUCTION	✓ MONITORING	___ HEAT EXCHANGE
___ RECONSTRUCTION OR RENOVATION	___ CATHODIC	___ OTHER (Specify):
___ DECOMMISSIONING	___ INJECTION	
___ OTHER:	___ EXTRACTION	

WELL LOCATION

SITE ADDRESS	CITY	ZIP CODE
1206 West 176th STREET	TORRANCE CA	90502

Township	Range	Section	Map Book Page/ Grid
			763 4(7)

NO. OF WELLS IN EACH PARCEL: 4 (1 mw, 3 Temporary wells) Attach site map with well locations see site map

WELL STRUCTURE

Type and Size of Production Casing	2" Sch 40 PVC casing
Sanitary / Annular Sealing Material	Seal bentonite or Grout
Depth of Sanitary / Annular Seal	4-6' approx
Conductor Casing Seal	7" Well Box w/ Lock

CONSULTANT

Company	HART CROWSER INC
Contact Person	Christiane Callender
Address	1 World Trade Center #2460
City, State Zip	Long Beach, CA 90831
Telephone	562-495-6360

DRILLER INFORMATION

Well Owner	HART CROWSER INC
Address	ONE WORLD TRADE CENTER #2460
City / Zip Code	LONG BEACH, CA 90831
Telephone	562-495-6360
Well Driller	CAL PAC DRILLING
Address	526 West 17th C
City / Zip Code	Colimesa, CA 92326
C-57 License No	766401
Telephone	909-795-7500

WELL DECOMMISSIONING

Well Depth log / records	
Method of Well Assessment	
Depth and Number of Perforations	
Type of Perforator Size of Perforations	
Type and Amount of Sealant	Bentonite cement slurry (temporary wells only)
Method of Upper Seal Pressure Application	

IF WELL AND GEOLOGIC CONDITIONS ENCOUNTERED IN THE FIELD ARE FOUND TO DIFFER FROM THE SCOPE OF WORK PRESENTED TO THIS OFFICE, WORK PLAN MODIFICATIONS MAY BE REQUIRED

DISPOSITION OF PERMIT (Department Use Only)
THIS PERMIT IS CONSIDERED COMPLETE WHEN THE WORK PLAN IS APPROVED AND WHEN THE WELL COMPLETION LOG IS RECEIVED. NO WELL CONSTRUCTION OR DECOMMISSIONING CAN BE INITIATED WITHOUT THE WORK PLAN APPROVAL FROM THIS DEPARTMENT.

WORK PLAN APPROVAL
(This Approval is Valid for 180 Days)

Date 12-10-02 REHS Robert Hughes

Conditions

Maintain the required setback for the sewer and water lines

FINAL INSPECTION

Date REHS

PERMIT ISSUED
The well log must be submitted to this Department prior to issuance of the final approval.

Date REHS

I hereby agree to comply in every respect with all the regulations of the County Environmental Health Division and with all ordinances and laws of the County of Los Angeles and the State of California pertaining to well construction, reconstruction and decommissioning. Upon completion of the well and within thirty days thereafter, I will furnish the Environmental Health office with a completion log of the well giving date drilled, depth of the well, perforations in the casing, and any other data deemed necessary by County Environmental Health Division.

12-04-02
Applicant's Signature

Applicant Name: (PRINT)
Telephone:

76A668-A
H-13 (Rev. 01/2001)

PACCAR 03508

Appendix E

APPENDIX E

HARTCROWSER
1206 W. 196TH ST
TORRANCE, CA

BORE	ELEV	NORTH	EAST
BL-01	44.3	1769034.1	6471332.8
BL-02	44.3	1769013.7	6471317.9
BL-03	44.4	1768994.9	6471317.3
BL-04	44.2	1768975.8	6471317.8
BL-05	43.3	1768843 2	6471359.8
BL-06	43.4	1768830.1	6471357.5
BL-07	43.1	1768793.1	6471363.8
BL-08	43.2	1768783.1	6471357 5
BL-09	42.7	1768738.6	6471359.1
BL-10	42.7	1768738.3	6471384 3
BL-11	42.6	1768738 5	6471408.1
BL-12	42.4	1768765.2	6471391.2
BL-13	43.0	1768766.4	6471416.4
BL-14	42.2	1768769.8	6471456.1
BL-15	41.8	1768684.8	6471443.1
BL-16	43.9	1768893.8	6471280.1
BL-18	42.7	1768833.1	6471452.8
BL-19	42.7	1769029.0	6471454.3
BL-20	42.9	1768931.0	6471452.5
CPT-12	41.9	1768647.4	6471440.1

Prepared by:
DULIN and BOYNTON

Date of Survey
17 JAN 03

HARTCROWSER
1206 W. 196TH ST
TORRANCE, CA

WELL	ELEV	DESC	NORTH	EAST
MW-3	43.84	2" PVC (N)	1769023.2	6471344.7
MW-3	44.00	RIM		
MW-3	44.11	ASPHALT		
MW-4	42.59	2" PVC (N)	1768813.7	6471373.0
MW-4	43.15	RIM		
MW-4	43.12	ASPHALT		
MW-5	43.14	4" PVC (N)	1768908.8	6471321.9
MW-5	43.72	RIM		
MW-5	43.65	ASPHALT		
MW-6	43.22	4" PVC (N)	1768788.4	6471263.8
MW-6	43.45	RIM		
MW-6	43.42	ASPHALT		
MW-7	41.42	4" PVC (N)	1768659.7	6471442.6
MW-7	41.81	RIM		
MW-7	41.77	ASPHALT		
MW-8	42.33	4" PVC (N)	1768708.2	6471251.4
MW-8	42.72	RIM		
MW-8	42.74	ASPHALT		
SWL-0029	42.60	4" PVC (N) TOP OF CAP	1768941.4	6471439.1
SWL-0029	43.41	RIM		
SWL-0029	43.28	ASPHALT		
SWL-0030	42.42	4" PVC (N) TOP OF CAP	1768949.9	6471440.9
SWL-0030	43.28	RIM		
SWL-0030	43.25	ASPHALT		
SWL-0031	42.33	4" PVC (N)	1768961.9	6471440.9
SWL-0031	43.31	RIM		
SWL-0031	43.30	ASPHALT		

BENCHMARK:

VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED.

Prepared by:
DULIN and BOYNTON

Date of Survey
17 JAN 03

HARTCROWSER
1206 W. 196TH ST
TORRANCE, CA

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

Appendix F

APPENDIX F

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled	12/13/02	
Date Analyzed	01/02/03	
Date Extracted	12/26/02	
AA ID No.:	147296	
Client ID No.:	BL-6@40'	
Dilution Factor:	1.0	MRL
Compounds:		
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4 Chloro 3-methylphenol	<0.2	0.2
4 Chloroaniline	<0.4	0.4
2 Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4 Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di n-butyl phthalate	<2	2
Di n-octyl phthalate	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2 Dichlorobenzene	<0.1	0.1
1,3 Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3'-Dichlorobenzidine	<0.4	0.4

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled	12/13/02	
Date Analyzed	01/02/03	
Date Extracted	12/26/02	
AA ID No	147296	
Client ID No	BL-6@40'	
Dilution Factor	1.0	MRL
Compounds		
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4 Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4 Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6 Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl 4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2 Methylphenol	<0.2	0.2
4 Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N Nitrosodimethylamine	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2 Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4 Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2 Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled	12/13/02	
Date Analyzed	01/02/03	
Date Extracted	12/26/02	
AA ID No.:	147296	
Client ID No	BL-6@40'	
Dilution Factor	1.0	MRL
Compounds		
1,2,4 Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: CAM Metals

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled	12/13/02	
Date Analyzed	01/13/03	
AA ID No.	147301	
Client ID No.	BL-6@0.5'	
Dilution Factor	1.0	MRL
Compounds		
Antimony	<10	10
Arsenic	1.9	0.5
Barium	110	10
Beryllium	<1	1
Cadmium	<1	1
Chromium	15	3
Cobalt	7.9	3
Copper	16	3
Lead	4.9	3
Mercury	<0.05	0.05
Molybdenum	<5	5
Nickel	8.2	3
Selenium	<0.5	0.5
Silver	<1	1
Thallium	<5	5
Vanadium	32	10
Zinc	36	3

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	
Date Analyzed:	12/27/02	
Date Extracted:	12/26/02	
AA ID No:	147296	
Client ID No.:	BL 6@40'	
Dilution Factor:	1.0	MRL
Compounds		
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit J Estimated Value

Allen Aminian
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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	12/13/02	12/13/02	12/13/02	
Date Analyzed:	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No.:	147290	147293	147296	147298	
Client ID No.:	BL 6@10'	BL 6@25'	BL-6@40'	BL-6@50	
Dilution Factor:	10.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	8400	<50	<50	<50	50
Benzene	<20	<2	<2	<2	2
Bromobenzene	<50	<5	<5	<5	5
Bromochloromethane	<50	<5	<5	<5	5
Bromodichloromethane	<50	<5	<5	<5	5
Bromoform	<50	<5	<5	<5	5
Bromomethane	<50	<5	<5	<5	5
2-Butanone	12000	<50	<50	<50	50
Butylbenzene	11000	<5	<5	<5	5
Carbon disulfide	<50	<5	<5	<5	5
Carbon tetrachloride	<50	<5	<5	<5	5
Chlorobenzene	<50	<5	<5	<5	5
Chloroethane	<50	<5	<5	<5	5
Chloroform	<50	<5	<5	34	5
Chloromethane	<50	<5	<5	<5	5
2-Chlorotoluene	<50	<5	<5	<5	5
4-Chlorotoluene	<50	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<100	<10	<10	<10	10
Dibromochloromethane	<50	<5	<5	<5	5
1,2 Dibromoethane	<50	<5	<5	<5	5
Dibromomethane	<50	<5	<5	<5	5
1,2-Dichlorobenzene	<50	<5	<5	<5	5
1,3 Dichlorobenzene	<50	<5	<5	<5	5
1,4-Dichlorobenzene	<50	<5	<5	<5	5
Dichlorodifluoromethane	<50	<5	<5	<5	5
1,1-Dichloroethane	<50	<5	<5	<5	5
1,2-Dichloroethane	<50	<5	<5	<5	5
1,2-Dichloroethene (cis)	<50	8.4	35	250	5
1,2-Dichloroethene (trans)	<50	<5	<5	<5	5
1,1 Dichloroethene	<50	<5	<5	<5	5
1,2-Dichloropropane	<50	<5	<5	<5	5
1,3-Dichloropropane	<50	<5	<5	<5	5
2,2 Dichloropropane	<50	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<50	<5	<5	<5	5

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/13/02	12/13/02	12/13/02	12/13/02	
Date Analyzed	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No.:	147290	147293	147296	147298	
Client ID No.:	BL-6@10'	BL 6@25'	BL-6@40'	BL-6@50'	
Dilution Factor:	10.0	1.0	1.0	1.0	MRL
Compounds					
1,3 Dichloropropene-(trans)	<50	<5	<5	<5	5
1,1 Dichloropropene	<50	<5	<5	<5	5
Ethylbenzene	8000	<2	<2	<2	2
Hexachlorobutadiene	<100	<10	<10	<10	10
2 Hexanone	<500	<50	<50	<50	50
Isopropylbenzene	3300	<5	<5	<5	5
Isopropyltoluene	10000	<10	<10	<10	10
Methyl tert Butyl Ether	<50	<5	<5	<5	5
4-Methyl 2-pentanone	1900	<50	<50	<50	50
Methylene chloride	<500	<50	<50	<50	50
Naphthalene	10000	<10	<10	13	10
Propylbenzene	9800	<5	<5	<5	5
Styrene	<50	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<50	<5	<5	<5	5
1,1,2,2 Tetrachloroethane	<50	<5	<5	<5	5
Tetrachloroethene	29000	17	20	250	5
Toluene	4800	<2	<2	<2	2
1,2,3 Trichlorobenzene	<50	<5	<5	<5	5
1,2,4 Trichlorobenzene	<50	<5	<5	<5	5
1,1,1-Trichloroethane	<50	<5	<5	<5	5
1,1,2-Trichloroethane	<50	<5	<5	<5	5
Trichloroethene	1500	12	21	520	5
Trichlorofluoromethane	<50	<5	<5	<5	5
1,2,3 Trichloropropane	<50	<5	<5	<5	5
1,2,4 Trimethylbenzene	85000	<5	<5	8.9	5
1,3,5 Trimethylbenzene	27000	<5	<5	<5	5
Vinyl chloride	<50	<5	<5	<5	5
m,p Xylenes	74000	<2	<2	<2	2
o Xylene	31000	<2	<2	<2	2
sec Butylbenzene	9800	<5	<5	<5	5
tert-Butylbenzene	620	<5	<5	<5	5

Allen Aminian
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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/13/02	12/13/02	12/13/02	12/13/02	
Date Analyzed	12/26/02	12/24/02	12/24/02	12/24/02	
AA ID No.	147303	147305	147316	147318	
Client ID No.	BL-8@10'	BL-8@20'	BL-10@10'	BL-10@20'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2 Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2 Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2 Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3 Dichlorobenzene	<5	<5	<5	<5	5
1,4 Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	5.2	<5	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3 Dichloropropane	<5	<5	<5	<5	5
2,2 Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	12/13/02	12/13/02	12/13/02	
Date Analyzed:	12/26/02	12/24/02	12/24/02	12/24/02	
AA ID No.	147303	147305	147316	147318	
Client ID No.:	BL-8@10'	BL-8@20'	BL-10@10'	BL-10@20'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3 Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	26	<5	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	27	<5	6.2	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	12/13/02	12/13/02	
Date Analyzed:	12/24/02	12/24/02	12/27/02	
AA ID No:	147328	147332	147335	
Client ID No:	BL-13@10'	BL-13@25'	BL-13@40'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
Acetone	<50	<50	<50	50
Benzene	<2	<2	<2	2
Bromobenzene	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	5
Bromoform	<5	<5	<5	5
Bromomethane	<5	<5	<5	5
2-Butanone	<50	<50	<50	50
Butylbenzene	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	5
Chloroethane	<5	<5	<5	5
Chloroform	<5	<5	<5	5
Chloromethane	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	5
Dibromomethane	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	5
1,2-Dichloroethene (cis)	<5	16	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	12/13/02	12/13/02	
Date Analyzed:	12/24/02	12/24/02	12/27/02	
AA ID No	147329	147332	147335	
Client ID No:	BL-13@10'	BL-13@25'	BL-13@40'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
1,3-Dichloropropene-(trans)	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	10
2-Hexanone	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	10
Methyl tert Butyl Ether	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	50
Methylene chloride	<50	<50	<50	50
Naphthalene	<10	<10	<10	10
Propylbenzene	<5	<5	<5	5
Styrene	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	5
Tetrachloroethene	<5	<5	<5	5
Toluene	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	5
Trichloroethene	<5	45	<5	5
Trichlorofluoromethane	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	2
o-Xylene	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A438100
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/13/02	12/13/02	12/13/02	
Date Analyzed:	12/24/02	12/24/02	12/27/02	
AA ID No.:	147329	147332	147335	
Client ID No.:	BL-13@10'	BL-13@25'	BL-13@40'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				

MRL: Method Reporting Limit J: Estimated Value

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene (cis)	<5	5
1,2-Dichloroethene (trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene (cis)	<5	5
1,3-Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl ten Butyl Ether	<5	5
4-Methyl 2 pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
ten-Butylbenzene	<5	5

MRL Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	24.4	122	65 - 135
Bromodichloromethane	27.0	135	42 - 172
Bromoform	16.1	81	27 - 135
Bromomethane	19.7	99	1 - 144
Carbon tetrachloride	24.4	122	43 - 143
Chlorobenzene	18.8	94	24 - 198
Chloroethane	19.1	96	46 - 137
Chloroform	22.7	114	49 - 133
Chloromethane	16.5	83	1 - 193
Dibromochloromethane	20.8	104	26 - 162
1,1-Dichloroethane	19.2	96	47 - 132
1,2-Dichloroethane	21.7	109	51 - 147
1,2-Dichloroethene (cis)	23.0	115	38 - 155
1,2-Dichloroethene (trans)	22.0	110	38 - 155
1,1-Dichloroethene	20.8	104	28 - 167
1,2-Dichloropropane	21.5	108	44 - 156
1,3-Dichloropropene (cis)	16.5	83	14 - 186
1,3-Dichloropropene (trans)	16.8	84	22 - 178
Ethylbenzene	16.5	83	77 - 123
Methylene chloride	23.0	115	25 - 162
1,1,2,2-Tetrachloroethane	16.1	81	13 - 159
Tetrachloroethene	19.1	96	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No.: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	18.2	91	66 - 134
1,1,1-Trichloroethane	24.3	122	41 - 138
1,1,2-Trichloroethane	16.0	80	22 - 178
Trichloroethene	24.1	121	35 - 146
Vinyl chloride	17.0	85	28 - 163
o-Xylene	19.6	98	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	20.0	100	65 - 135
Bromodichloromethane	20.4	102	42 - 172
Bromoform	18.0	90	22 - 135
Bromomethane	16.2	81	1 - 144
Carbon tetrachloride	21.6	108	42 - 143
Chlorobenzene	19.6	98	24 - 191
Chloroethane	16.0	80	46 - 137
Chloroform	19.8	99	49 - 133
Chloromethane	13.0	65	1 - 193
Dibromochloromethane	18.0	90	26 - 162
1,1-Dichloroethane	19.6	98	47 - 132
1,2-Dichloroethane	20.0	100	51 - 147
1,2-Dichloroethene-(cis)	20.4	102	38 - 155
1,2-Dichloroethene-(trans)	20.2	101	38 - 155
1,1-Dichloroethene	19.6	98	28 - 167
1,2-Dichloropropane	18.3	92	44 - 156
1,3-Dichloropropene-(cis)	18.4	92	14 - 186
1,3-Dichloropropene-(trans)	17.0	85	22 - 178
Ethylbenzene	20.4	102	77 - 123
Methylene chloride	21.0	105	25 - 162
1,1,2,2-Tetrachloroethane	16.0	80	13 - 159
Tetrachloroethene	20.0	100	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/kg

Project No.: 6999.06
AA Project No.: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	18.6	93	66 - 134
1,1,1-Trichloroethane	21.4	107	41 - 138
1,1,2-Trichloroethane	16.6	83	22 - 176
Trichloroethene	21.6	108	35 - 146
Vinyl chloride	13.7	69	28 - 183
o-Xylene	19.8	99	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	499	100	70 - 130
Aroclor 1260	597	119	70 - 130

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	19	95	65 - 135
Bromodichloromethane	21	105	42 - 172
Bromoform	24	120	22 - 135
Bromomethane	18	90	1 - 144
Carbon tetrachloride	22	110	43 - 143
Chlorobenzene	21	105	24 - 191
Chloroethane	15	75	46 - 137
Chloroform	21	105	49 - 133
Chloromethane	14	70	1 - 193
Dibromochloromethane	20	100	26 - 162
1,1-Dichloroethane	18	90	47 - 132
1,2-Dichloroethane	19	95	51 - 147
1,2-Dichloroethene (cis)	22	110	38 - 155
1,2-Dichloroethene-(trans)	21	105	38 - 155
1,1-Dichloroethene	18	90	28 - 167
1,2-Dichloropropane	17	85	44 - 156
1,3-Dichloropropene-(cis)	19	95	14 - 186
1,3-Dichloropropene-(trans)	18	90	22 - 178
Ethylbenzene	17	85	77 - 123
Methylene chloride	20	100	25 - 162
1,1,2,2-Tetrachloroethane	18	90	13 - 159
Tetrachloroethene	22	110	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	18	90	66 - 134
1,1,1-Trichloroethane	19	95	41 - 138
1,1,2-Trichloroethane	19	95	22 - 178
Trichloroethene	21	105	35 - 146
Vinyl chloride	15	75	28 - 163
o-Xylene	21	105	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A438100
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	41.6	83	47 - 145
Acenaphthylene	43.6	87	33 - 145
Anthracene	51.3	103	27 - 133
Benzo(b)fluoranthene	48.7	97	24 - 159
Bis(2-chloroethyl)ether	48.0	96	12 - 158
Butyl benzyl phthalate	49.5	99	2 - 152
2-Chloronaphthalene	38.4	77	60 - 118
4-Chlorophenyl phenyl ether	44.5	89	25 - 158
1,2-Dichlorobenzene	39.9	80	32 - 129
1,3-Dichlorobenzene	39.7	79	2 - 172
1,4-Dichlorobenzene	40.2	80	20 - 124
Diethylphthalate	56.3	113	2 - 114
Dimethylphthalate	46.1	92	2 - 112
Fluoranthene	52.0	104	26 - 137
Fluorene	44.3	89	59 - 121
Hexachlorobenzene	54.9	110	2 - 152
Hexachlorobutadiene	37.7	75	24 - 116
Hexachloroethane	40.9	82	40 - 113
Isophorone	47.1	94	21 - 196
Naphthalene	50.1	100	21 - 133
Nitrobenzene	50.4	101	35 - 180
2-Nitrophenol	50.2	100	29 - 182

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A438100
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	60.1	120	14 - 176
Phenol	52.7	105	5 - 112
1,2,4-Trichlorobenzene	36.8	74	44 - 142
2,4,6-Trichlorophenol	53.1	106	37 - 144

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Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Laboratory Control Standard
Concentration: 50 mg/Kg

Project No.: 6999.06
AA Project No.: A438100
Date Analyzed: 01/13/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
Antimony	47.1	94	75 - 125
Arsenic	49.3	99	75 - 125
Barium	46.0	92	75 - 125
Beryllium	50.2	100	75 - 125
Cadmium	48.0	96	75 - 125
Chromium	48.2	96	75 - 125
Cobalt	47.9	96	75 - 125
Copper	48.4	97	75 - 125
Lead	49.5	99	75 - 125
Mercury	48.4	97	75 - 125
Molybdenum	48.0	96	75 - 125
Nickel	47.2	94	75 - 125
Selenium	42.5	85	75 - 125
Silver	38.0	76	75 - 125
Thallium	48.0	96	75 - 125
Vanadium	48.5	97	75 - 125
Zinc	48.6	97	75 - 125

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147303
Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/26/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	45	113	51	128	12	45 - 169
Chlorobenzene	36	90	43	108	18	37 - 160
Chloroform	39	98	42	105	7	51 - 138
1,1-Dichloroethane	36	90	41	103	13	54 - 155
1,1-Dichloroethene	40	100	41	103	3	2 - 234
Isopropyltoluene	39	98	47	118	19	50 - 150
Propylbenzene	35	88	42	105	18	50 - 150
Tetrachloroethene	51	128	55	138	8	64 - 148
Toluene	37	93	44	110	17	47 - 150
1,3,5 Trimethylbenzene	45	113	54	135	18	50 - 150
Vinyl chloride	28	70	34	85	19	2 - 251

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147335
Project No.: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec Range (%)
Bromoform	44	110	44	110	0	45 - 169
Chlorobenzene	43	108	41	103	5	37 - 160
Chloroform	36	90	38	95	5	51 - 138
1,1-Dichloroethane	36	90	31	78	14	54 - 155
1,1 Dichloroethene	30	75	29	73	3	2 - 234
Isopropyltoluene	44	110	44	110	0	50 - 150
Propylbenzene	37	93	35	88	6	50 - 150
Tetrachloroethene	39	98	42	105	7	64 - 148
Toluene	38	95	34	85	11	47 - 150
1,3,5 Trimethylbenzene	46	115	45	113	2	50 - 150
Vinyl chloride	19	48	20	50	4	2 - 251

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No: 147295
Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept Rec Range (%)
Aroclor 1016	552	110	523	105	5	50 - 150
Aroclor 1260	597	119	593	119	0	50 - 150

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147316
Project No: 6999.06
AA Project No: A438100
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	46.5	116	40.2	101	14	45 - 169
Chlorobenzene	41.0	103	39.6	99	4	37 - 160
Chloroform	35.2	88	35.4	89	1	51 - 138
1,1-Dichloroethane	28.5	71	28.8	72	1	54 - 155
1,1-Dichloroethene	32.4	81	32.4	81	0	2 - 234
Isopropyltoluene	40.3	101	40.5	101	0	50 - 150
Propylbenzene	34.8	87	35.0	90	3	50 - 150
Tetrachloroethene	39.7	99	41.9	105	6	64 - 148
Toluene	34.3	86	33.9	85	1	47 - 150
1,3,5-Trimethylbenzene	46.7	122	46.7	122	0	50 - 150
Vinyl chloride	26.1	65	26.6	67	3	2 - 251

Allen Aminian
Project Manager

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 300788

Tel 818-998-5547 FAX 818-998-7258

DATE 12/13/02 PAGE 3 of 4

AA Client: HART CROWSER INC
Project Manager: ABC
Project Name: PACCAR TORRENCE
Job Name and Address: PACCAR 1206 WEST 176TH ST
Phone: 562-435-6360
P.O. No.:
Client's Project No.: 6999.06
Sampler's Name (Print): RYAN MITCHELTREE
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, VOA, 8081, 8082, 6000/7000, EPA 5035

Client's Comment Special Test Requirements / Comments: 1a. Turnaround Time, Detection Limits, Data Package ...)

Client ID	AA ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	VOA	8081	8082	6000/7000	EPA 5035	
BL-10320	147320	11-12-02	10:32	SOIL	Several								HOLD
BL-10325	147321		10:38										
BL-10330	147322		10:45										
BL-10335	147323		10:50										
BL-10340	147324		11:00										
BL-10345	147325		11:07										
BL-10350	147326		11:15										
BL-10355	147327		7:45										
BL-10400	147328		7:55										
BL-10405	147329		7:58										
BL-10410	147330		8:00										
BL-10415	147331		8:05										
BL-10420	147332		8:15										
BL-10425	147333		8:19										
BL-10430	147334		8:22										
BL-10435	147335		8:27										

(X) Samples were added per client request. 12/16/02 A.A

LAB COMMENTS: (X) Added per Allstate Collector request 12/27/02 Alex Aminian

Relinquished by: Date 12-13-02 Time 4:00 — Received by: Date 12/13/02 Time 17:00

AA Project No.:

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 201368

Tel 818-998-5547 FAX 818-998-7258

DATE 12/13/02 PAGE 1 of 4

AA Client: HART CROWSER INC
Project Manager: ABC
Project Name: PACCAR TORRENCE
Job Name and Address: PACCAR 1206 WEST 176TH ST
Phone: 562-493-6360
P.O. No.:
Client's Project No.: 6999.06
Sampler's Name (Print): RYAN MITCHELTREE
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, VOA, 8081, 8082, 6000/7000, EPA 5035

Client's Comment Special Test Requirements / Comments: 1a. Turnaround Time, Detection Limits, Data Package ...)

Client ID	AA ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	VOA	8081	8082	6000/7000	EPA 5035	
BL-6005	147288	11-12-02	1447	SOIL	Several								HOLD
BL-6005	147289		1450										
BL-6010	147290		1455			X			X				
BL-6015	147291		1455										
BL-6020	147292		1500										
BL-6025	147293		1503			X			X				
BL-6030	147294		1508										
BL-6035	147295		1512										
BL-6040	147296		1515			X	X		X	X			
BL-6045	147297		1517										
BL-6050	147298		1528			X			X				
BL-6055	147299		1530										
BL-6060	147300		1533										
BL-8005	147301		1150					X					
BL-8005	147302		1155										
BL-8010	147303		11:00			X			X				

X: Samples added per client request 12/16/02 A.A

LAB COMMENTS: (X) Added per Allstate Collector's request 12/27/02 Alex Aminian

Relinquished by: Date 12-13-02 Time 4:00 — Received by: Date 12/13/02 Time 17:00

AA Project No.:

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 300791

Tel 818-998-5547 FAX 818-998-7258

DATE 12-13-02 PAGE 4 of 4

AA Client: HART CROWSER INC
Project Manager: ABC
Project Name: PACCAR TORRENCE
Job Name and Address: PACCAR 1206 W 176TH ST TORRENCE
Phone:
P.O. No.:
Client's Project No.: 6999.06
Sampler's Name (Print): Ryan Mitcheltree
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, VOA, 8081, 8082, 6000/7000

Client's Comment Special Test Requirements / Comments: 1a. Turnaround Time, Detection Limits, Data Package ...)

Client ID	AA ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	VOA	8081	8082	6000/7000	EPA 5035	
BL-8015	147316	12-11-02	9:45	SOIL	Several								HOLD SAMPLES
BL-8020	147317		8:55										
BL-8025	147318		8:55										
BL-8030	147319		8:57										

LAB COMMENTS:

Relinquished by: Date 12-13-02 Time 4:00 — Received by: Date 12/13/02 Time 17:00

AA Project No.:

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 300786

Tel 818-998-5547 FAX 818-998-7258

DATE 12-13-02 PAGE 2 of 4

AA Client: Hart Crowser
Project Manager: ABC
Project Name: PACCAR TORRENCE
Job Name and Address: PACCAR 1206th W 176th Street
Phone: 562-435-6360
P.O. No.:
Client's Project No.: 6999.06
Sampler's Name (Print): Ryan Mitcheltree
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, VOA, 8081, 8082, 6000/7000, EPA 5035

Client's Comment Special Test Requirements / Comments: 1a. Turnaround Time, Detection Limits, Data Package ...)

Client ID	AA ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	VOA	8081	8082	6000/7000	EPA 5035	
BL-8015	147304	12-11-02	11:03	SOIL									HOLD SAMPLES
BL-8020	147305		11:05			X			X				
BL-8025	147306		11:[illegible]										
BL-8030	147307		11:15										
BL-8035	147308		11:20										
BL-8040	147309		12:00										
BL-8045	147310		12:05										
BL-8050	147311		12:15										
BL-8055	147312		12:55										
BL-8060	147313		13:00										
BL-10305	147314		10:05										
BL-10315	147315		10:10										
BL-10410	147316		10:15			X			X				
BL-10415	147317		10:17										
BL-10420	147318		10:20			X			X				
BL-10425	147319		10:25										

X: Samples were added per client's request 12/16/02 A.A

LAB COMMENTS:

Relinquished by: Date 12-13-02 Time 4:00 — Received by: Date 12/13/02 Time 17:00

AA Project No.:

PACCAR 03525

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled:	12/16/02	12/16/02	
Date Analyzed	01/02/03	01/02/03	
Date Extracted:	12/30/02	12/30/02	
AA ID No:	147353	147362	
Client ID No.:	BL-5@35'	BL-7@5'	
Dilution Factor	1.0	1.0	MRL
Compounds			
Acenaphthene	<0.1	<0.1	0.1
Acenaphthylene	<0.1	<0.1	0.1
Aniline	<0.2	<0.2	0.2
Anthracene	<0.1	<0.1	0.1
Azobenzene	<0.1	<0.1	0.1
Benzidine	<0.4	<0.4	0.4
Benzo(a)anthracene	<0.1	<0.1	0.1
Benzo(a)pyrene	<0.1	<0.1	0.1
Benzo(b)fluoranthene	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	<0.1	0.1
Benzo(k)fluoranthene	<0.1	<0.1	0.1
Benzoic acid	<1	<1	1
Benzyl Alcohol	<0.1	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	<0.1	0.1
Butyl benzyl phthalate	<0.5	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	<0.2	0.2
4-Chloroaniline	<0.4	<0.4	0.4
2-Chloronaphthalene	<0.1	<0.1	0.1
2-Chlorophenol	<0.1	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	<0.1	0.1
Chrysene	<0.1	<0.1	0.1
Di-n-butyl phthalate	<2	<2	2
Di-n-octyl phthalate	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	<0.1	0.1
Dibenzofuran	<0.1	<0.1	0.1
1,2-Dichlorobenzene	<0.1	<0.1	0.1
1,3-Dichlorobenzene	<0.1	<0.1	0.1
1,4-Dichlorobenzene	<0.1	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	<0.4	0.4

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled	12/16/02	12/16/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted	12/30/02	12/30/02	
AA ID No:	147353	147362	
Client ID No.:	BL-5@35'	BL-7@5'	
Dilution Factor:	1.0	1.0	MRL
Compounds			
2,4-Dichlorophenol	<0.1	<0.1	0.1
Diethylphthalate	<0.8	<0.8	0.8
2,4-Dimethylphenol	<0.1	<0.1	0.1
Dimethylphthalate	<0.2	<0.2	0.2
2,4-Dinitrophenol	<0.4	<0.4	0.4
2,4-Dinitrotoluene	<0.1	<0.1	0.1
2,6-Dinitrotoluene	<0.1	<0.1	0.1
Fluoranthene	<0.1	<0.1	0.1
Fluorene	<0.1	<0.1	0.1
Hexachlorobenzene	<0.1	<0.1	0.1
Hexachlorobutadiene	<0.1	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	<0.1	0.1
Hexachloroethane	<0.1	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	<0.4	0.4
Isophorone	<0.1	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	<0.2	0.2
2-Methylnaphthalene	<0.1	<0.1	0.1
2-Methylphenol	<0.2	<0.2	0.2
4-Methylphenol	<0.2	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	<0.1	0.1
N-Nitrosodimethylamine	<0.1	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	<0.1	0.1
Naphthalene	<0.1	<0.1	0.1
2-Nitroaniline	<0.1	<0.1	0.1
3-Nitroaniline	<0.4	<0.4	0.4
4-Nitroaniline	<0.2	<0.2	0.2
Nitrobenzene	<0.1	<0.1	0.1
2-Nitrophenol	<0.2	<0.2	0.2
4-Nitrophenol	<0.2	<0.2	0.2
Pentachlorophenol	<0.1	<0.1	0.1
Phenanthrene	<0.1	<0.1	0.1
Phenol	<0.1	<0.1	0.1
Pyrene	<0.1	<0.1	0.1

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No. A438101
Date Received 12/17/02
Date Reported: 01/15/03
Units. mg/Kg

Date Sampled:	12/16/02	12/16/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted.	12/30/02	12/30/02	
AA ID No.	147353	147362	
Client ID No:	BL-5@35'	BL-7@5'	
Dilution Factor	1.0	1.0	MRL
Compounds			
1,2,4-Trichlorobenzene	<0.1	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	<0.2	0.2

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: 418.1 (TRPH)

AA Project No: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units. mg/Kg

AA I.D. No	Client I.D. No.	Date Extracted	Date Sampled	Date Analyzed	DF	Results	MRL
147362	BL-7@5'	12/30/02	12/16/02	12/30/02	1.0	84	5

MRL Method Reporting Limit J Estimated Value DF Dilution Factor

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No: A4381D1
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled:	12/16/02	12/16/02	
Date Analyzed:	12/20/02	12/20/02	
AA ID No:	147359	147374	
Client ID No:	BL-5	BL-7	
Dilution Factor	100.0	100.0	MRL
Compounds:			
Acetone	2600	1400	10
Benzene	<50	<50	0.5
Bromobenzene	<50	<50	0.5
Bromochloromethane	<50	<50	0.5
Bromodichloromethane	<50	<50	0.5
Bromoform	<50	<50	0.5
Bromomethane	<50	<50	0.5
2-Butanone	<1000	<1000	10
Butylbenzene	<50	<50	0.5
Carbon disulfide	<50	<50	0.5
Carbon tetrachloride	<50	<50	0.5
Chlorobenzene	<50	<50	0.5
Chloroethane	<50	<50	0.5
Chloroform	150	150	0.5
Chloromethane	<50	<50	0.5
2-Chlorotoluene	<50	<50	0.5
4-Chlorotoluene	<50	<50	0.5
1,2-Dibromo-3-chloropropan	<100	<100	1
Dibromochloromethane	<50	<50	0.5
1,2-Dibromoethane	<50	<50	0.5
Dibromomethane	<50	<50	0.5
1,2-Dichlorobenzene	<50	<50	0.5
1,3-Dichlorobenzene	<50	<50	0.5
1,4-Dichlorobenzene	<50	<50	0.5
Dichlorodifluoromethane	<50	<50	0.5
1,1-Dichloroethane	<50	<50	0.5
1,2-Dichloroethane	<50	<50	0.5
1,2-Dichloroethene-(cis)	3300	3800	0.5
1,2-Dichloroethene-(trans)	<50	<50	0.5
1,1-Dichloroethene	<50	<50	0.5
1,2-Dichloropropane	<50	<50	0.5
1,3-Dichloropropane	<50	<50	0.5
2,2-Dichloropropane	<50	<50	0.5
1,3-Dichloropropene-(cis)	<50	<50	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A4381D1
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled	12/16/02	12/16/02	
Date Analyzed:	12/20/02	12/20/02	
AA ID No	147359	147374	
Client ID No:	BL-5	BL-7	
Dilution Factor	100.0	100.0	MRL
Compounds:			
1,3-Dichloropropene-(trans)	<50	<50	0.5
1,1-Dichloropropene	<50	<50	0.5
Ethylbenzene	<50	<50	0.5
Hexachlorobutadiene	<100	<100	1
2-Hexanone	<1000	<1000	10
Isopropylbenzene	<50	<50	0.5
Isopropyltoluene	<100	<100	1
Methyl tert Butyl Ether	<200	<200	2
4-Methyl-2-pentanone	<1000	<1000	10
Methylene chloride	<500	<500	5
Naphthalene	<200	<200	2
Propylbenzene	<50	<50	0.5
Styrene	<50	<50	0.5
1,1,1,2-Tetrachloroethane	<50	<50	0.5
1,1,2,2-Tetrachloroethane	<50	<50	0.5
Tetrachloroethene	6300	6300	0.5
Toluene	<50	<50	0.5
1,2,3-Trichlorobenzene	<50	<50	0.5
1,2,4-Trichlorobenzene	<50	<50	0.5
1,1,1-Trichloroethane	<50	<50	0.5
1,1,2-Trichloroethane	<50	<50	0.5
Trichloroethene	16000	16000	0.5
Trichlorofluoromethane	<50	<50	0.5
1,2,3-Trichloropropane	<50	<50	0.5
1,2,4-Trimethylbenzene	<50	<50	0.5
1,3,5-Trimethylbenzene	<50	<50	0.5
Vinyl chloride	<50	<50	0.5
m,p-Xylenes	<100	<100	1
o-Xylene	<50	<50	0.5
sec-Butylbenzene	<50	<50	0.5
tert-Butylbenzene	<50	<50	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A4381D1
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled:	12/16/02	12/16/02	
Date Analyzed:	12/20/02	12/20/02	
AA ID No.:	147359	147374	
Client ID No.:	BL-5	BL-7	
Dilution Factor:	100.0	100.0	MRL
Compounds:			

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No: A4381D1
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/16/02	12/16/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted	12/30/02	12/30/02	
AA ID No.:	147353	147362	
Client ID No:	BL-5@35'	BL-7@5'	
Dilution Factor	1.0	1.0	MRL
Compounds			
Aroclor 1016	<100	<100	100
Aroclor 1221	<100	<100	100
Aroclor 1232	<100	<100	100
Aroclor 1242	<100	<100	100
Aroclor 1248	<100	<100	100
Aroclor 1254	<100	<100	100
Aroclor 1260	<100	<100	100

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/16/02	12/16/02	12/16/02	12/16/02	
Date Analyzed:	12/26/02	12/26/02	12/26/02	12/26/02	
AA ID No.:	147346	147353	147357	147362	
Client ID No.:	BL-5@0.5'	BL-5@35'	BL-5@55'	BL-7@5'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	13	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	23	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	6.7	<50	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/16/02	12/16/02	12/16/02	12/16/02	
Date Analyzed:	12/26/02	12/26/02	12/26/02	12/26/02	
AA ID No.:	147346	147353	147357	147362	
Client ID No.:	BL-5@0.5'	BL-5@35'	BL-5@55'	BL-7@5'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	150	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	280	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	260	<5	570	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	65	5.2	850	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	16	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/16/02	12/16/02	12/16/02	
Date Analyzed:	12/26/02	12/26/02	12/26/02	
AA ID No.:	147364	147370	147371	
Client ID No.:	BL-7@15'	BL-7@45'	BL-7@50'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
Acetone	<50	<50	<50	50
Benzene	<2	<2	<2	2
Bromobenzene	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	5
Bromoform	<5	<5	<5	5
Bromomethane	<5	<5	<5	5
2-Butanone	<50	<50	<50	50
Butylbenzene	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	5
Chloroethane	<5	<5	<5	5
Chloroform	<5	9.7	18	5
Chloromethane	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	5
1,2-Dibromo-3-chloropropane	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	5
Dibromomethane	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	5
1,2-Dichloroethene (cis)	<5	88	100	5
1,2-Dichloroethene (trans)	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	5.7	5
1,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/16/02	12/16/02	12/16/02	
Date Analyzed:	12/26/02	12/26/02	12/26/02	
AA ID No.:	147364	147370	147371	
Client ID No.:	BL-7@15'	BL-7@45'	BL-7@50'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
1,3-Dichloropropene (trans)	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	10
2-Hexanone	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	50
Methylene chloride	<50	<50	<50	50
Naphthalene	<10	<10	<10	10
Propylbenzene	<5	<5	<5	5
Styrene	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	5
Tetrachloroethene	<5	68	200	5
Toluene	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	5
Trichloroethene	<5	260	130	5
Trichlorofluoromethane	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	5
Vinylchloride	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	2
o-Xylene	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A438101
Date Received: 12/17/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/16/02	12/16/02	12/16/02	
Date Analyzed:	12/26/02	12/26/02	12/26/02	
AA ID No.:	147364	147370	147371	
Client ID No.	BL-1@15'	BL-7@45'	BL-7@50'	
Dilution Factor:	1.0	1.0	1.0	MRL
Compounds:				

MRL: Method Reporting Limit J Estimated Value

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
TRPH	<5	5

MRL Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2 Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2 Chlorotoluene	<5	5
4 Chlorotoluene	<5	5
1,2 Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2 Dichlorobenzene	<5	5
1,3 Dichlorobenzene	<5	5
1,4 Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2 Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438101
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene (cis)	<5	5
1,2-Dichloroethene (trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene (cis)	<5	5
1,3-Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438101
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butyl phthalate	<2	2
Di-n-octyl phthalate	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	0.4
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc.
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No: A438101
Date Analyzed: 12/20/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	23.1	116	65 - 135
Bromodichloromethane	22.1	111	42 - 172
Bromoform	27.6	113	22 - 135
Bromomethane	18.3	92	1 - 144
Carbon tetrachloride	20.7	104	43 - 143
Chlorobenzene	23.2	116	24 - 191
Chloroethane	27.6	138	46 - 137
Chloroform	20.6	103	49 - 133
Chloromethane	25.2	126	1 - 193
Dibromochloromethane	18.9	94	26 - 162
1,1-Dichloroethane	23.7	118	47 - 132
1,2-Dichloroethane	21.5	108	51 - 147
1,2-Dichloroethene (cis)	24.0	120	38 - 155
1,2-Dichloroethene (trans)	24.0	120	38 - 155
1,1-Dichloroethene	21.0	105	28 - 167
1,2-Dichloropropane	24.0	120	44 - 156
1,3-Dichloropropene (cis)	23.7	119	14 - 186
1,3-Dichloropropene (trans)	23.6	118	22 - 178
Ethylbenzene	22.1	111	77 - 123
Methylene chloride	20.4	102	25 - 162
1,1,2,2-Tetrachloroethane	19.9	100	13 - 159
Tetrachloroethene	18.7	94	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No: A438101
Date Analyzed: 12/20/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	21.0	105	66 - 134
1,1,1-Trichloroethane	20.7	104	41 - 138
1,1,2-Trichloroethane	21.5	108	22 - 178
Trichloroethene	23.5	118	35 - 146
Vinyl chloride	41.7	209	28 - 163
o-Xylene	22.3	112	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Laboratory Control Standard
Concentration: 40 mg/Kg

Project No.: 6999 06
AA Project No: A438101
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
TRPH	37	93	30 - 170

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	401	80	70 - 130
Aroclor 1260	410	82	70 - 130

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	20.0	100	65 - 135
Bromodichloromethane	23.0	115	42 - 172
Bromoform	16.0	80	22 - 135
Bromomethane	13.2	66	1 - 144
Carbon tetrachloride	21.3	107	43 - 143
Chlorobenzene	20.0	100	24 - 191
Chloroethane	13.0	65	46 - 137
Chloroform	20.7	104	49 - 133
Chloromethane	13.6	68	1 - 193
Dibromochloromethane	16.8	84	26 - 162
1,1 Dichloroethane	16.8	84	47 - 132
1,2 Dichloroethane	17.3	87	51 - 147
1,2-Dichloroethene-(cis)	17.8	89	38 - 155
1,2 Dichloroethene-(trans)	19.8	99	38 - 155
1,1-Dichloroethene	14.6	73	28 - 167
1,2 Dichloropropane	12.6	63	44 - 156
1,3 Dichloropropene-(cis)	15.4	77	14 - 186
1,3 Dichloropropene-(trans)	15.0	75	22 - 178
Ethylbenzene	16.9	85	77 - 123
Methylene chloride	24.0	120	25 - 162
1,1,2,2-Tetrachloroethane	12.7	64	13 - 159
Tetrachloroethene	21.0	105	39 - 136

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 12/28/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	17.5	88	66 - 134
1,1,1 Trichloroethane	17.3	87	41 - 138
1,1,2-Trichloroethane	14.2	71	22 - 178
Trichloroethene	22.0	110	35 - 146
Vinyl chloride	13.1	66	28 - 163
o-Xylene	20.6	103	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	42.6	85	47 - 145
Acenaphthylene	41.2	82	33 - 145
Anthracene	42.7	85	27 - 133
Benzo(b)fluoranthene	45.8	92	24 - 159
Bis(2-chloroethyl)ether	46.1	92	12 - 158
Butyl benzyl phthalate	45.2	90	2 - 152
2-Chloronaphthalene	37.6	75	60 - 118
4-Chlorophenyl phenyl ether	36.8	74	25 - 158
1,2-Dichlorobenzene	37.8	76	32 - 129
1,3-Dichlorobenzene	51.5	103	2 - 172
1,4-Dichlorobenzene	40.2	80	20 - 124
Diethylphthalate	52.4	105	2 - 114
Dimethylphthalate	42.1	85	2 - 112
Fluoranthene	45.8	92	26 - 137
Fluorene	41.6	83	59 - 121
Hexachlorobenzene	45.1	58	2 - 152
Hexachlorobutadiene	40.9	82	24 - 116
Hexachloroethane	44.8	90	40 - 113
Isophorone	42.9	86	21 - 196
Naphthalene	54.8	110	21 - 133
Nitrobenzene	50.5	101	35 - 180
2-Nitrophenol	45.4	91	29 - 182

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	55.6	111	14 - 176
Phenol	49.8	100	5 - 112
1,2,4 Trichlorobenzene	36.0	72	44 - 142
2,4,6-Trichlorophenol	50.4	101	37 - 144

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No.: 147362
Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec Range (%)
Aroclor 1016	469	94	520	104	10	50 - 150
Aroclor 1260	694	139	675	135	3	50 - 150

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No.: 147353
Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	45.4	114	51	128	12	45 - 169
Chlorobenzene	36.3	91	43	108	17	37 - 160
Chloroform	39.0	98	42	105	7	51 - 138
1,1-Dichloroethane	35.8	90	41	103	13	54 - 155
1,1 Dichloroethene	40.7	101	41	103	2	2 - 234
Isopropylbenzene	38.6	97	47	118	20	50 - 150
Propylbenzene	35.0	88	42	105	18	50 - 150
Tetrachloroethene	58.0	145	110	275	62	64 - 148
Toluene	36.4	91	44	110	19	47 - 150
1,3,5-Trimethylbenzene	45.4	114	54	135	17	50 - 150
Vinyl chloride	27.4	69	28	70	1	2 - 251

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Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Matrix Spike
Concentration: 1 mg/Kg

AA ID No.: 147353
Project No.: 6999 06
AA Project No.: A438101
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup Result (mg/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Acenaphthene	0.82	82	0.85	85	4	47 - 145
4-Chloro-3-methylphenol	1.03	103	1.03	103	0	22 - 147
2-Chlorophenol	0.96	96	0.96	96	0	23 - 134
1,4-Dichlorobenzene	0.74	74	0.79	79	7	20 - 124
2,4 Dinitrotoluene	0.89	89	0.98	98	10	39 - 139
N-Nitrosodi-n-propylamine	0.84	84	0.98	98	15	5 - 230
4-Nitrophenol	1.40	140	1.40	140	0	5 - 132
Pentachlorophenol	1.07	107	1.07	107	0	14 - 176
Phenol	0.96	96	1.00	100	4	5 - 112
Pyrene	0.83	83	0.83	83	0	25 - 115
1,2,4-Trichlorobenzene	0.71	71	0.68	68	4	44 - 142

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 100950

Tel: 818-998-5547 FAX: 818-998-7258

DATE: 12/11/02 PAGE 1 OF 2

AA Client: HART CRUSHER, INC.
Project Manager: ALISTAIRE CALLENDER
Project Name: PACCAR
Job Name and Address: Torrance, CA.
Phone: 1-(213) 495-6310
PO No.:
Client's Project No.: 1797.06
Sampler's Name (Print): Ryan Hatchel tree & Chris Knoch
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Soil Asbestos; 8081/8080; SVOC; Dissolved Metals; VOC (8260); EPA 5035; 8082

Client's Comments, Special Test Requirements / Comments: Hold

Turnaround Time, Detection Limits, Data Package:)

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	Soil Asbestos	8081/8080	SVOC	Dissolved Metals	VOC (8260)	EPA 5035	8082	
BL-05@0.5'	147-346	12/11/02	10:00	Soil	4					X	X		
BL-05@5'	147-347		10:15										
BL-05@10'	147-348		10:20										
BL-05@15'	147-349		10:31										
BL-05@20'	147-350		10:40										
BL-05@25'	147-351		10:45										
BL-05@30'	147-352		10:50										
BL-05@35'	147-353		10:55							X	X		
BL-05@40'	147-354		11:00										
BL-05@45'	147-355		11:05										
BL-05@50'	147-356		11:10										
BL-05@55'	147-357		11:15							X	X		
BL-05@60'	147-358		11:20										
BL-05	147-359		12:00	Water	4								
BL-02	147-360		9:00	Water	3								

Client's Comments, Special Test Requirements / Comments: Hold

⊗ Samples were added per client request 12/12/02 AA

Turnaround Time, Detection Limits, Data Package:)

- Metals filter & Preserved
- Metals filter & Preserved

LAB COMMENTS: ⊗ Samples were added per Alistair request. 12/12/02 Allen Anderson

AA Project No. A 6 10 [illegible]

Relinquished by: Nagayasi Saligan — Date: 12/11/02 Time: 1800
Received by: Tim Kim — Date: 12/11/02 Time: 1800
Relinquished by: — Date: 12/12/02 Time: 8:10
Received by: [illegible]
Relinquished by: — Date: — Time: —
Received by: —
Relinquished by: — Date: — Time: —
Received by: —

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311 — Nº 100952

Tel: 818-998-5547 FAX: 818-998-7258

DATE: 12/11/02 PAGE 2 OF 2

AA Client: HART CRUSHER, INC
Project Manager: ALISTAIRE CALLENDER
Project Name: PACCAR, INC
Job Name and Address: Torrance, CA.
Phone: 1-(213) 495-6310
PO No.:
Client's Project No.: 1797.06
Sampler's Name (Print): Ryan Hatchel tree & Chris Knoch
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Soil Asbestos; 8081/8080; SVOC; Dissolved Metals; VOC (8260); EPA 5035; 8082

Client's Comments, Special Test Requirements / Comments: Hold

⊗ Samples were added per client request 12/12/02 AA

Turnaround Time, Detection Limits, Data Package:)

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	Soil Asbestos	8081/8080	SVOC	Dissolved Metals	VOC (8260)	EPA 5035	8082	
BL-03@0.5'	147-361	12/11/02	13:30	Soil	4								
BL-03@5'	147-362		13:35										
BL-03@10'	147-363		13:40										
BL-03@15'	147-364		13:45							X	X		
BL-03@20'	147-365		13:50										
BL-03@25'	147-366		13:55										
BL-03@30'	147-367		13:59										
BL-03@35'	147-368		14:01										
BL-03@40'	147-369		14:11										
BL-03@45'	147-370		14:17							X	X		
BL-03@50'	147-371		14:35							X	X		
BL-03@55'	147-372		14:39										
BL-03@60'	147-373		14:58										
BL-03	147-374	12/11/02	15:30	Water	2					X			

Client's Comments, Special Test Requirements / Comments: Hold

- Metals filter & Preserved

LAB COMMENTS: ⊗ Samples were added per Alistair request. 12/12/02 Allen Anderson

AA Project No. A 6 [illegible]

Relinquished by: Nagayasi Saligan — Date: 12/11/02 Time: 1800
Received by: Tim Kim — Date: 12/11/02 Time: 1800
Relinquished by: — Date: 12/12/02 Time: 8:10
Received by: [illegible]
Relinquished by: — Date: — Time: —
Received by: —
Relinquished by: — Date: — Time: —
Received by: —

PACCAR 03534

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled	12/17/02	
Date Analyzed	01/03/03	
Date Extracted	12/31/02	
AA ID No.	147437	
Client ID No:	BL-12@5'	
Dilution Factor	1.0	MRL
Compounds		
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butyl phthalate	<2	2
Di-n-octyl phthalate	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	0.4

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled	12/17/02	
Date Analyzed:	01/03/03	
Date Extracted.	12/31/02	
AA ID No:	147437	
Client ID No:	BL-12@5'	
Dilution Factor	1.0	MRL
Compounds		
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled:	12/17/02	
Date Analyzed:	01/03/03	
Date Extracted.	12/31/02	
AA ID No.:	147437	
Client ID No.:	BL-12@5'	
Dilution Factor	1.0	MRL
Compounds		
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled.	12/17/02	12/17/02	12/17/02	
Date Analyzed:	12/21/02	12/21/02	12/21/02	
AA ID No:	147449	147453	147478	
Client ID No.	BL-12	BL 9	BL-15	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
Acetone	<10	<10	<10	10
Benzene	21	22	8.0	0.5
Bromobenzene	<0.5	<0.5	<0.5	0.5
Bromochloromethane	<0.5	<0.5	<0.5	0.5
Bromodichloromethane	<0.5	<0.5	<0.5	0.5
Bromoform	<0.5	<0.5	<0.5	0.5
Bromomethane	<0.5	<0.5	<0.5	0.5
2-Butanone	<10	<10	<10	10
Butylbenzene	<0.5	<0.5	<0.5	0.5
Carbon disulfide	<0.5	<0.5	<0.5	0.5
Carbon tetrachloride	0.61	<0.5	0.56	0.5
Chlorobenzene	<0.5	<0.5	<0.5	0.5
Chloroethane	<0.5	<0.5	<0.5	0.5
Chloroform	110	97	86	0.5
Chloromethane	<0.5	<0.5	<0.5	0.5
2-Chlorotoluene	<0.5	<0.5	<0.5	0.5
4-Chlorotoluene	<0.5	<0.5	<0.5	0.5
1,2-Dibromo-3-chloropropan	<1	<1	<1	1
Dibromochloromethane	<0.5	<0.5	<0.5	0.5
1,2-Dibromoethane	<0.5	<0.5	<0.5	0.5
Dibromomethane	<0.5	<0.5	<0.5	0.5
1,2-Dichlorobenzene	1.7	3.5	0.88	0.5
1,3-Dichlorobenzene	1.3	1.1	0.65	0.5
1,4-Dichlorobenzene	7.3	6.0	1.9	0.5
Dichlorodifluoromethane	<0.5	<0.5	<0.5	0.5
1,1-Dichloroethane	33	55	27	0.5
1,2-Dichloroethane	5.1	4.6	0.82	0.5
1,2-Dichloroethene (cis)	2900	1500	1800	0.5
1,2-Dichloroethene (trans)	60	37	17	0.5
1,1-Dichloroethene	63	120	110	0.5
1,2-Dichloropropane	<0.5	<0.5	<0.5	0.5
1,3-Dichloropropane	<0.5	<0.5	<0.5	0.5
2,2-Dichloropropane	<0.5	<0.5	<0.5	0.5
1,3-Dichloropropene (cis)	<0.5	<0.5	<0.5	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled:	12/17/02	12/17/02	12/17/02	
Date Analyzed:	12/21/02	12/21/02	12/21/02	
AA ID No.:	147449	147463	147478	
Client ID No.:	BL-12	BL-9	BL-11	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
1,3-Dichloropropene-(trans)	<0.5	<0.5	<0.5	0.5
1,1-Dichloropropene	<0.5	<0.5	<0.5	0.5
Ethylbenzene	<0.5	<0.5	<0.5	0.5
Hexachlorobutadiene	<1	<1	<1	1
2-Hexanone	<10	<10	<10	10
Isopropylbenzene	<0.5	<0.5	<0.5	0.5
Isopropyltoluene	<1	<1	<1	1
Methyl tert-Butyl Ether	<2	<2	<2	2
4-Methyl-2-pentanone	<10	<10	<10	10
Methylene chloride	<5	<5	<5	5
Naphthalene	<2	<2	<2	2
Propylbenzene	<0.5	<0.5	<0.5	0.5
Styrene	<0.5	<0.5	<0.5	0.5
1,1,1,2-Tetrachloroethane	1.7	1.0	2.0	0.5
1,1,2,2-Tetrachloroethane	<0.5	<0.5	<0.5	0.5
Tetrachloroethene	4400	4700	2400	0.5
Toluene	<0.5	<0.5	<0.5	0.5
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5	0.5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	0.5
1,1,1-Trichloroethane	<0.5	<0.5	<0.5	0.5
1,1,2-Trichloroethane	3.6	3.0	1.7	0.5
Trichloroethene	14000	17000	10000	0.5
Trichlorofluoromethane	1.5	<0.5	1.0	0.5
1,2,3-Trichloropropane	<0.5	<0.5	<0.5	0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5	0.5
Vinyl chloride	2.1	1.3	2.0	0.5
m,p-Xylenes	<1	<1	<1	1
o-Xylene	<0.5	<0.5	<0.5	0.5
sec-Butylbenzene	<0.5	<0.5	<0.5	0.5
tert-Butylbenzene	<0.5	<0.5	<0.5	0.5

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled	12/17/02	12/17/02	12/17/02	
Date Analyzed:	12/21/02	12/21/02	12/21/02	
AA ID No.:	147449	147463	147478	
Client ID No.:	BL-12	BL-9	BL-11	
Dilution Factor	1.0	1.0	1.0	MI
Compounds				

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/17/02	
Date Analyzed:	01/02/03	
Date Extracted:	12/31/02	
AA ID No.:	147437	
Client ID No.	BL-12@5'	
Dilution Factor:	1.0	MRL
Compounds		
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed:	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.	147437	147438	147440	147442	
Client ID No..	BL-12@5	BL-12@18'	BL-12@20'	BL-12@30'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	5.9	32	5
1,2-Dichloroethene (trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.	147437	147438	147440	147442	
Client ID No.	BL-12@5'	BL-12@10'	BL-12@20'	BL-12@30'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl ten Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	<5	<5	11	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	<5	13	78	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.	147444	147447	147451	147453	
Client ID No.	BL-12@40'	BL-12@55'	BL-9@5'	BL-9@15'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	19	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	7.7	370	<5	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	7.5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.	147444	147447	147451	147453	
Client ID No.	BL-12@40'	BL-12@55'	BL-9@5'	BL-9@15'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl ten Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	490	<5	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	75	1300	<5	8.3	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
ten Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.	147455	147459	147465	147467	
Client ID No.	BL-9@25'	BL-9@45'	BL-11@5'	BL-11@15	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	9.6	11	<5	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed:	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.:	147455	147459	147465	147467	
Client ID No.:	BL-3@25'	BL-3@45'	BL-11@5'	BL-11@15'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	20	<5	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	36	76	5.8	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.:	147469	147471	147473	147476	
Client ID No.:	BL-11@25'	BL-11@35'	BL-11@45'	BL-11@60'	
Dilution Factor	1.0	1.0	1.0	1.0	MR
Compounds					
Acetone	<50	<50	<50	<50	
Benzene	<2	<2	<2	<2	
Bromobenzene	<5	<5	<5	<5	
Bromochloromethane	<5	<5	<5	<5	
Bromodichloromethane	<5	<5	<5	<5	
Bromoform	<5	<5	<5	<5	
Bromomethane	<5	<5	<5	<5	
2-Butanone	<50	<50	<50	<50	
Butylbenzene	<5	<5	<5	<5	
Carbon disulfide	<5	<5	<5	<5	
Carbon tetrachloride	<5	<5	<5	<5	
Chlorobenzene	<5	<5	<5	<5	
Chloroethane	<5	<5	<5	<5	
Chloroform	<5	<5	<5	6.2	
Chloromethane	<5	<5	<5	<5	
2-Chlorotoluene	<5	<5	<5	<5	
4-Chlorotoluene	<5	<5	<5	<5	
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	
Dibromochloromethane	<5	<5	<5	<5	
1,2-Dibromoethane	<5	<5	<5	<5	
Dibromomethane	<5	<5	<5	<5	
1,2-Dichlorobenzene	<5	<5	<5	<5	
1,3-Dichlorobenzene	<5	<5	<5	<5	
1,4-Dichlorobenzene	<5	<5	<5	<5	
Dichlorodifluoromethane	<5	<5	<5	<5	
1,1-Dichloroethane	<5	<5	6.2	<5	
1,2-Dichloroethane	<5	<5	<5	<5	
1,2-Dichloroethene-(cis)	11	<5	8.1	72	
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	
1,1-Dichloroethene	6.7	<5	10	<5	
1,2-Dichloropropane	<5	<5	<5	<5	
1,3-Dichloropropane	<5	<5	<5	<5	
2,2-Dichloropropane	<5	<5	<5	<5	
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled.	12/17/02	12/17/02	12/17/02	12/17/02	
Date Analyzed.	12/30/02	12/30/02	12/30/02	12/30/02	
AA ID No.:	147469	147471	147473	147476	
Client ID No.:	BL-11@25'	BL-11@35'	BL-11@45'	BL-11@60'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	10	<5	13	110	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	51	6.9	79	430	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/17/02	
Date Analyzed:	12/30/02	
AA ID No.:	147477	
Client ID No.:	BL-11@60 DUP	
Dilution Factor:	1.0	MRL
Compounds:		
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	23	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropan	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5
1,2-Dichloroethene-(cis)	380	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	10	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5

Allen Aminian
Project Manager

PACCAR 03538

LABORATORY ANALYSIS RESULTS

Client: Han Crowser Inc
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/17/02	
Date Analyzed:	12/30/02	
AA ID No.:	147477	
Client ID No.	BL 12@60'DUP	
Dilution Factor	1.0	MRL
Compounds:		
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl ten Butyl Ether	<5	5
4-Methyl 2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2 Tetrachloroethane	<5	5
1,1,2,2 Tetrachloroethane	<5	5
Tetrachloroethene	720	5
Toluene	<2	2
1,2,3 Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5
Trichloroethene	2200	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
ten-Butylbenzene	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438103
Date Received: 12/18/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/17/02	
Date Analyzed:	12/30/02	
AA ID No	147477	
Client ID No	BL 12@60'DUP	
Dilution Factor:	1.0	MRL
Compounds:		

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No: A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Results ug/L	MRL
Acetone	<10	10
Benzene	<0.5	0.5
Bromobenzene	<0.5	0.5
Bromochloromethane	<0.5	0.5
Bromodichloromethane	<0.5	0.5
Bromoform	<0.5	0.5
Bromomethane	<0.5	0.5
2-Butanone	<10	10
Butylbenzene	<0.5	0.5
Carbon disulfide	<0.5	0.5
Carbon tetrachloride	<0.5	0.5
Chlorobenzene	<0.5	0.5
Chloroethane	<0.5	0.5
Chloroform	<0.5	0.5
Chloromethane	<0.5	0.5
2-Chlorotoluene	<0.5	0.5
4-Chlorotoluene	<0.5	0.5
1,2-Dibromo 3-chloropropane	<1	1
Dibromochloromethane	<0.5	0.5
1,2-Dibromoethane	<0.5	0.5
Dibromomethane	<0.5	0.5
1,2-Dichlorobenzene	<0.5	0.5
1,3-Dichlorobenzene	<0.5	0.5
1,4-Dichlorobenzene	<0.5	0.5
Dichlorodifluoromethane	<0.5	0.5
1,1-Dichloroethane	<0.5	0.5
1,2-Dichloroethane	<0.5	0.5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Han Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Results ug/L	MRL
1,2-Dichloroethene (cis)	<0.5	0.5
1,2-Dichloroethene (trans)	<0.5	0.5
1,1-Dichloroethene	<0.5	0.5
1,2-Dichloropropane	<0.5	0.5
1,3-Dichloropropane	<0.5	0.5
2,2-Dichloropropane	<0.5	0.5
1,3-Dichloropropene-(cis)	<0.5	0.5
1,3-Dichloropropene-(trans)	<0.5	0.5
1,1-Dichloropropene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Hexachlorobutadiene	<1	1
2-Hexanone	<10	10
Isopropylbenzene	<0.5	0.5
Isopropyltoluene	<1	1
Methyl ten-Butyl Ether	<2	2
4-Methyl 2-pentanone	<10	10
Methylene chloride	<5	5
Naphthalene	<2	2
Propylbenzene	<0.5	0.5
Styrene	<0.5	0.5
1,1,1,2 Tetrachloroethane	<0.5	0.5
1,1,2,2-Tetrachloroethane	<0.5	0.5
Tetrachloroethene	<0.5	0.5
Toluene	<0.5	0.5
1,2,3-Trichlorobenzene	<0.5	0.5
1,2,4-Trichlorobenzene	<0.5	0.5
1,1,1-Trichloroethane	<0.5	0.5

Allen Aminian
Project Manager

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Reagent Blank

Project No 6999 06
AA Project No : A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Results ug/L	MRL
1,1,2-Trichloroethane	<0.5	0.5
Trichloroethene	<0.5	0.5
Trichlorofluoromethane	<0.5	0.5
1,2,3-Trichloropropane	<0.5	0.5
1,2,4-Trimethylbenzene	<0.5	0.5
1,3,5-Trimethylbenzene	<0.5	0.5
Vinyl chloride	<0.5	0.5
m,p-Xylenes	<1	1
o-Xylene	<0.5	0.5
sec-Butylbenzene	<0.5	0.5
tert-Butylbenzene	<0.5	0.5

MRL Method Reporting Limit

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No 6999 06
AA Project No : A438103
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No : A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl-tert-Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5

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Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3 Trichlo opropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p Xylenes	<2	2
o Xylene	<2	2
sec-Butylbenzene	<5	5
tert Butylbenzene	<5	5

MRL Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3 methylphenol	<0.2	0.2
4 Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butyl phthalate	<2	2
Di-n-octyl phthalate	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Han Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	0.4
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl 4,6 dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Results mg/Kg	MRL
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No: A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	18.6	93	65 - 135
Bromodichloromethane	18.0	90	42 - 172
Bromoform	15.1	76	22 - 135
Bromomethane	14.0	70	1 - 144
Carbon tetrachloride	17.5	88	43 - 143
Chlorobenzene	20.4	102	24 - 191
Chloroethane	19.5	98	46 - 137
Chloroform	18.0	90	49 - 133
Chloromethane	14.2	71	1 - 193
Dibromochloromethane	16.6	83	26 - 162
1,1 Dichloroethane	19.5	98	47 - 132
1,2-Dichloroethane	17.6	88	51 - 147
1,2 Dichloroethene (cis)	19.0	95	38 - 155
1,2-Dichloroethene (trans)	19.5	98	38 - 155
1,1 Dichloroethene	18.3	92	28 - 167
1,2 Dichloropropane	18.8	94	44 - 156
1,3-Dichloropropene-(cis)	19.4	97	14 - 186
1,3-Dichloropropene-(trans)	18.6	93	22 - 178
Ethylbenzene	18.9	95	77 - 123
Methylene chloride	20.3	102	25 - 162
1,1,2,2-Tetrachloroethane	15.7	79	13 - 159
Tetrachloroethene	16.9	85	39 - 136

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No: A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	17.9	90	66 - 134
1,1,1-Trichloroethane	16.5	83	41 - 138
1,1,2-Trichloroethane	17.7	89	22 - 178
Trichloroethene	19.0	95	35 - 146
Vinyl chloride	26.9	135	28 - 163
o Xylene	19.1	96	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999 06
AA Project No: A438103
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	464	93	70 - 130
Aroclor 1260	481	96	70 - 130

Allen Aminian
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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999 06
AA Project No: A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	21.6	108	65 - 135
Bromoform	19.0	95	22 - 135
Bromomethane	16.7	84	1 - 144
Carbon tetrachloride	23.0	115	43 - 143
Chlorobenzene	18.9	95	24 - 191
Chloroethane	16.8	84	46 - 137
Chloroform	21.8	109	49 - 133
Chloromethane	11.2	56	1 - 193
Dibromochloromethane	19.3	97	26 - 162
1,1-Dichloroethane	18.5	93	47 - 132
1,2-Dichloroethane	21.3	107	51 - 147
1,2-Dichloroethene (cis)	18.7	94	38 - 155
1,2-Dichloroethene-(trans)	20.5	103	38 - 155
1,1-Dichloroethene	19.5	98	28 - 167
1,2-Dichloropropane	17.1	86	44 - 156
1,3-Dichloropropene-(cis)	21.7	109	14 - 186
1,3-Dichloropropene-(trans)	16.0	80	22 - 178
Ethylbenzene	15.3	77	77 - 123
Methylene chloride	20.3	102	25 - 162
1,1,2,2-Tetrachloroethane	14.2	71	13 - 159
Tetrachloroethene	18.6	93	39 - 136
Toluene	18.3	92	66 - 134

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
1,1,1-Trichloroethane	22.7	114	41 - 138
1,1,2-Trichloroethane	15.0	75	22 - 178
Trichloroethene	23.8	119	35 - 146
Vinyl chloride	12.3	62	28 - 163
o-Xylene	19.6	98	73 - 127

Allen Aminian
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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	44.2	88	47 - 145
Acenaphthylene	46.1	92	33 - 145
Anthracene	47.7	95	27 - 133
Benzo(b)fluoranthene	43.6	87	24 - 159
Bis(2-chloroethyl)ether	48.6	97	12 - 158
Butyl benzyl phthalate	55.7	111	2 - 152
2-Chloronaphthalene	43.4	87	60 - 118
4-Chlorophenyl phenyl ether	41.3	83	25 - 158
1,2-Dichlorobenzene	43.2	86	32 - 129
1,3-Dichlorobenzene	40.9	82	2 - 172
1,4-Dichlorobenzene	41.5	83	20 - 124
Diethylphthalate	60.3	121	2 - 114
Dimethylphthalate	49.5	99	2 - 112
Fluoranthene	47.3	95	26 - 137
Fluorene	43.7	87	59 - 121
Hexachlorobenzene	52.1	104	2 - 152
Hexachlorobutadiene	40.6	81	24 - 116
Hexachloroethane	46.3	93	40 - 113
Isophorone	46.0	92	21 - 196
Naphthalene	55.4	111	21 - 133
Nitrobenzene	50.2	100	35 - 180
2-Nitrophenol	44.0	88	29 - 182

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	56.6	113	14 - 176
Phenol	53.9	108	5 - 112
1,2,4-Trichlorobenzene	35.3	71	44 - 142
2,4,6-Trichlorophenol	54.0	108	37 - 144

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 142449
Project No.: 6999.06
AA Project No.: A438103
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Result (ug/L)	Spike Recovery (%)	Dup Result (ug/L)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	17.6	89	16.6	83	7	45 - 169
Chlorobenzene	22.3	112	20.7	104	7	37 - 160
Chloroform	20.7	104	19.7	99	5	51 - 138
1,1-Dichloroethane	19.2	96	18.3	92	4	54 - 155
1,1-Dichloroethene	24.6	123	28.0	140	13	2 - 234
Isopropyltoluene	23.0	115	20.6	103	11	50 - 150
Propylbenzene	22.0	110	20.0	100	10	50 - 150
Tetrachloroethene	20.3	102	20.0	100	2	64 - 148
Toluene	19.9	100	18.5	93	7	47 - 150
1,3,5-Trimethylbenzene	23.5	118	21.2	106	11	50 - 150
Vinyl chloride	28.0	140	28.4	142	1	2 - 251

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Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147437
Project No: 6999.06
AA Project No: A438103
Date Analyzed: 12/30/02
Date Reported: 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Bromoform	41	102	40.8	102	0	45 - 169
Chlorobenzene	41	102	39.7	99	3	37 - 160
Chloroform	38	95	42.2	106	11	51 - 138
1,1-Dichloroethane	28	70	30.0	75	7	54 - 155
1,1-Dichloroethene	35	88	35.6	89	1	2 - 234
Isopropylbenzene	45	112	51.0	128	13	50 - 150
Propylbenzene	34	85	35.6	89	5	50 - 150
Tetrachloroethene	42	105	44.0	110	5	64 - 148
Toluene	34	85	33.8	85	0	47 - 150
1,3,5-Trimethylbenzene	46	115	48.0	120	4	50 - 150
Vinyl chloride	20	49	22.0	55	12	2 - 251

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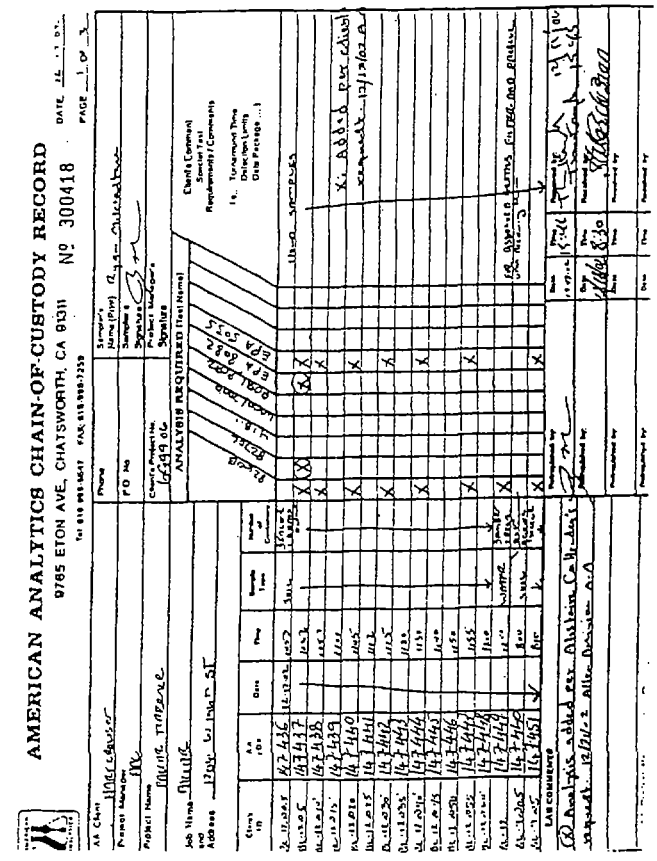

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Matrix Spike
Concentration: 1 mg/Kg

AA ID No: 147437
Project No: 6999.06
AA Project No: A438103
Date Analyzed: 01/03/03
Date Reported: 01/15/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup Result (mg/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Acenaphthene	0.82	82	0.85	85	4	47 - 145
4-Chloro-3-methylphenol	1.03	103	1.03	103	0	22 - 147
2-Chlorophenol	0.96	96	0.96	96	0	23 - 134
1,4-Dichlorobenzene	0.74	74	0.79	79	7	20 - 124
2,4-Dinitrotoluene	0.89	89	0.98	98	10	39 - 139
N-Nitrosodi-n-propylamine	0.84	84	0.98	98	15	5 - 230
4-Nitrophenol	1.40	140	1.40	140	0	5 - 132
Pentachlorophenol	1.07	107	1.07	107	0	14 - 176
Phenol	0.96	96	1.00	100	4	5 - 112
Pyrene	0.83	83	0.83	83	0	25 - 115
1,2,4-Trichlorobenzene	0.71	71	0.68	68	4	44 - 142

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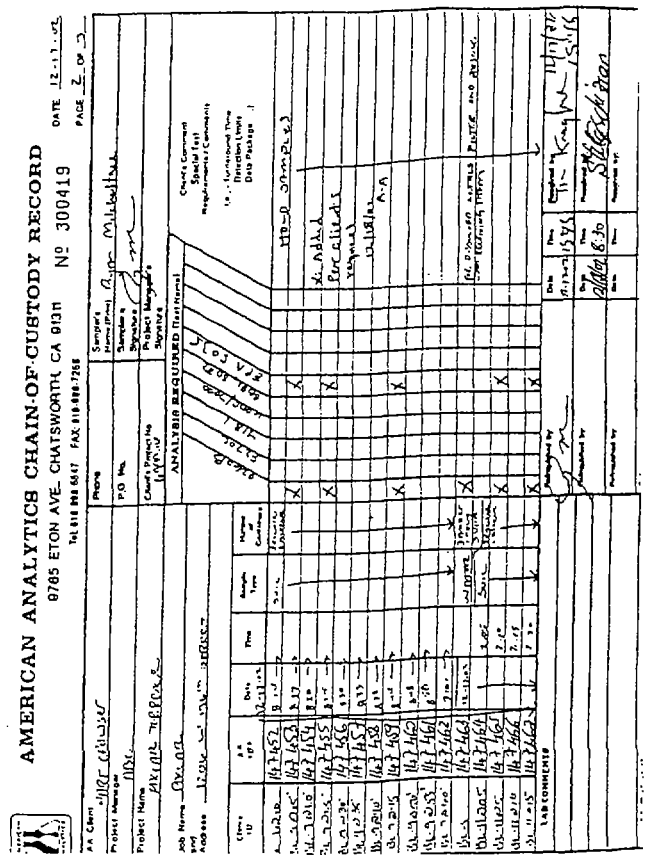

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

8785 ETON AVE, CHATSWORTH, CA 91311 Nº 300420

Tel 818-998-5647 FAX 818-998-7258

DATE 12-17-02

PAGE 3 OF 3

A.A. Client: MRT C

Project Manager: MBC

Project Name: PACCAR TORRANCE

Job Name: PACCAR

Job Address: 17600 S. MAIN ST

Phone:

P.O. No.:

Charge Project No.: 6977.06

Sampler's Name (Print): Ryan Mitchell

Sampler's Signature:

Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, 418.1, Lead (7420), 8021B, 8015B, EPA 1312

Client's Comment: Special Test Requirements / Comments (e.g., Turnaround Time, Direct Inquiries, Data Package)

Client's ID	A.A. ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	418.1	Lead (7420)	8021B	8015B	EPA 1312				Comments
[illegible]	147468	12-17-02	7:15	SOIL	SEE CHAIN RECORD											HOLD SAMPLES
[illegible]	147469		7:35			X				X						
[illegible]	147470		7:45													
[illegible]	147471		8:00			X				X						XI Added
[illegible]	147472		3:10													per client
[illegible]	147473		3:15			X				X						request
[illegible]	147474		3:20													12/17/02
[illegible]	147475		3:25													A.A
[illegible]	147476		3:30			X				X						
[illegible]	147477		12:00			X				X						
BL-11	147478		3:45	WATER	17 ONLY 3 VOAs	X										TOL, BENZENE, XYLENES, ETHYLBENZENE, MTBE, NAPHTHALENE ONLY REQUESTED

LAB COMMENTS:

Relinquished by	Date	Time	Received by
[signature]	12-17-02	15:45	[signature]
	12/18/02	8:00	[signature]
	Date	Time	
	Date	Time	

PACCAR 03545

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled	12/18/02	
Date Analyzed	12/26/02	
AA ID No.:	147788	
Client ID No.:	BL-14	
Dilution Factor:	100.0	MRL
Compounds:		
Acetone	<1000	10
Benzene	<50	0.5
Bromobenzene	<50	0.5
Bromochloromethane	<50	0.5
Bromodichloromethane	<50	0.5
Bromoform	<50	0.5
Bromomethane	<50	0.5
2-Butanone	<1000	10
Butylbenzene	<50	0.5
Carbon disulfide	<50	0.5
Carbon tetrachloride	<50	0.5
Chlorobenzene	<50	0.5
Chloroethane	<50	0.5
Chloroform	<50	0.5
Chloromethane	<50	0.5
2-Chlorotoluene	<50	0.5
4-Chlorotoluene	<50	0.5
1,2-Dibromo-3-chloropropan	<100	1
Dibromochloromethane	<50	0.5
1,2-Dibromoethane	<50	0.5
Dibromomethane	<50	0.5
1,2-Dichlorobenzene	<50	0.5
1,3-Dichlorobenzene	<50	0.5
1,4-Dichlorobenzene	<50	0.5
Dichlorodifluoromethane	<50	0.5
1,1-Dichloroethane	<50	0.5
1,2-Dichloroethane	<50	0.5
1,2-Dichloroethene (cis)	1000	0.5
1,2-Dichloroethene (trans)	<50	0.5
1,1-Dichloroethene	61	0.5
1,2-Dichloropropane	<50	0.5
1,3-Dichloropropane	<50	0.5
2,2-Dichloropropane	<50	0.5
1,3-Dichloropropene (cis)	<50	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled	12/18/02	
Date Analyzed	12/26/02	
AA ID No.:	147788	
Client ID No.	BL-14	
Dilution Factor:	100.0	MRL
Compounds:		
1,3-Dichloropropene (trans)	<50	0.5
1,1-Dichloropropene	<50	0.5
Ethylbenzene	<50	0.5
Hexachlorobutadiene	<100	1
2-Hexanone	<1000	10
Isopropylbenzene	<50	0.5
Isopropyltoluene	<100	1
Methyl tert Butyl Ether	<200	2
4-Methyl-2-pentanone	<1000	10
Methylene chloride	<500	5
Naphthalene	<200	2
Propylbenzene	<50	0.5
Styrene	<50	0.5
1,1,1,2-Tetrachloroethane	<50	0.5
1,1,2,2-Tetrachloroethane	<50	0.5
Tetrachloroethene	1100	0.5
Toluene	87	0.5
1,2,3-Trichlorobenzene	<50	0.5
1,2,4-Trichlorobenzene	<50	0.5
1,1,1-Trichloroethane	<50	0.5
1,1,2-Trichloroethane	<50	0.5
Trichloroethene	5700	0.5
Trichlorofluoromethane	<50	0.5
1,2,3-Trichloropropane	<50	0.5
1,2,4-Trimethylbenzene	<50	0.5
1,3,5-Trimethylbenzene	<50	0.5
Vinyl chloride	<50	0.5
m,p-Xylenes	<100	1
o-Xylene	<50	0.5
sec-Butylbenzene	<50	0.5
tert-Butylbenzene	<50	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/L

Date Sampled:	12/18/02	
Date Analyzed	12/26/02	
AA ID No	147788	
Client ID No.	BL-14	
Dilution Factor:	100.0	MRL
Compounds		

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/18/02	12/18/02	12/18/02	12/18/02	
Date Analyzed	12/31/02	12/31/02	12/31/02	12/31/02	
AA ID No	147776	147777	147779	147781	
Client ID No.:	BL-14@5	BL-14@10	BL-14@20	BL-14@30	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene (cis)	<5	<5	11	<5	5
1,2-Dichloroethene (trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/18/02	12/18/02	12/18/02	12/18/02	
Date Analyzed	12/31/02	12/31/02	12/31/02	12/31/02	
AA ID No.	147776	147777	147778	147781	
Client ID No.	BL-14@5	BL-14@10	BL-14@20	BL-14@30	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	<5	8.9	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	8.1	<5	47	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/18/02	12/18/02	
Date Analyzed	12/31/02	12/31/02	
AA ID No.:	147783	147785	
Client ID No.:	BL-14@40	BL-14@50	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
Acetone	<50	<50	5
Benzene	<2	<2	
Bromobenzene	<5	<5	
Bromochloromethane	<5	<5	
Bromodichloromethane	<5	<5	
Bromoform	<5	<5	
Bromomethane	<5	<5	
2-Butanone	<50	<50	5
Butylbenzene	<5	<5	
Carbon disulfide	<5	<5	
Carbon tetrachloride	<5	<5	
Chlorobenzene	<5	<5	
Chloroethane	<5	<5	
Chloroform	<5	8.3	
Chloromethane	<5	<5	
2-Chlorotoluene	<5	<5	
4-Chlorotoluene	<5	<5	
1,2-Dibromo-3-chloropropan	<10	<10	10
Dibromochloromethane	<5	<5	
1,2-Dibromoethane	<5	<5	
Dibromomethane	<5	<5	
1,2-Dichlorobenzene	<5	<5	
1,3-Dichlorobenzene	<5	<5	
1,4-Dichlorobenzene	<5	<5	
Dichlorodifluoromethane	<5	<5	
1,1-Dichloroethane	<5	<5	
1,2-Dichloroethane	<5	<5	
1,2-Dichloroethene-(cis)	<5	92	
1,2-Dichloroethene-(trans)	<5	<5	
1,1-Dichloroethene	<5	21	
1,2-Dichloropropane	<5	<5	
1,3-Dichloropropane	<5	<5	
2,2-Dichloropropane	<5	<5	
1,3-Dichloropropene (cis)	<5	<5	

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/18/02	12/18/02	
Date Analyzed	12/31/02	12/31/02	
AA ID No	147783	147785	
Client ID No.:	BL-14@40	BL-14@50	
Dilution Factor	1.0	1.0	MRL
Compounds:			
1,3-Dichloropropene (trans)	<5	<5	5
1,1-Dichloropropene	<5	<5	5
Ethylbenzene	<2	<2	2
Hexachlorobutadiene	<10	<10	10
2-Hexanone	<50	<50	50
Isopropylbenzene	<5	<5	5
Isopropyltoluene	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	5
4-Methyl-2-pentanone	<50	<50	50
Methylene chloride	<50	<50	50
Naphthalene	<10	<10	10
Propylbenzene	<5	<5	5
Styrene	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	5
Tetrachloroethene	<5	77	5
Toluene	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	5
1,1,1-Trichloroethane	<5	<5	5
1,1,2-Trichloroethane	<5	<5	5
Trichloroethene	16	320	5
Trichlorofluoromethane	<5	<5	5
1,2,3-Trichloropropane	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	5
Vinyl chloride	<5	<5	5
m,p-Xylenes	<2	<2	2
o-Xylene	<2	<2	2
sec-Butylbenzene	<5	<5	5
tert-Butylbenzene	<5	<5	5

Allen Amirian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438106
Date Received: 12/20/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/18/02	12/18/02	
Date Analyzed:	12/31/02	12/31/02	
AA ID No.	147783	147785	
Client ID No.:	BL-14@40	BL-14@50	
Dilution Factor	1.0	1.0	MRL
Compounds			

MRL Method Reporting Limit J Estimated Value

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A438106
Date Analyzed: 12/31/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5
1,2-Dichloroethene (cis)	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID.: Reagent Blank

Project No.: 6999.06
AA Project No.: A438106
Date Analyzed: 12/31/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene (cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<0	0
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID.: Reagent Blank

Project No.: 6999.06
AA Project No.: A438106
Date Analyzed: 12/31/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID.: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999.06
AA Project No.: A438106
Date Analyzed: 12/26/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	20.2	101	69 - 135
Bromodichloromethane	19.2	96	42 - 172
Bromoform	17.3	87	22 - 135
Bromomethane	16.2	81	1 - 144
Carbon tetrachloride	19.6	98	43 - 143
Chlorobenzene	22.0	110	24 - 191
Chloroethane	22.9	115	46 - 137
Chloroform	19.0	95	49 - 133
Chloromethane	20.9	105	1 - 193
Dibromochloromethane	18.7	94	26 - 162
1,1-Dichloroethane	19.9	100	47 - 132
1,2-Dichloroethane	17.9	90	51 - 147
1,2-Dichloroethene (cis)	22.2	111	38 - 155
1,2-Dichloroethene-(trans)	22.3	112	38 - 155
1,1-Dichloroethene	19.6	98	28 - 167
1,2-Dichloropropane	19.1	96	44 - 156
1,3-Dichloropropene (cis)	20.2	101	14 - 186
1,3-Dichloropropene-(trans)	19.9	100	22 - 178
Ethylbenzene	21.1	106	37 - 123
Methylene chloride	20.4	102	25 - 162
1,1,2,2-Tetrachloroethane	15.3	77	13 - 159
Tetrachloroethene	21.2	106	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No. A438106
Date Analyzed: 12/26/02
Date Reported 01/15/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	19.9	100	66 - 134
1,1,1-Trichloroethane	19.1	96	41 - 138
1,1,2-Trichloroethane	17.6	88	22 - 178
Trichloroethene	21.6	108	35 - 146
Vinyl chloride	37.4	187	28 - 163
o-Xylene	21.6	108	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999 06
AA Project No. A438106
Date Analyzed: 12/31/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	19.2	96	65 - 135
Bromodichloromethane	17.9	90	42 - 172
Bromoform	20.9	105	22 - 135
Bromomethane	17.3	87	1 - 144
Carbon tetrachloride	22.3	112	23 - 143
Chlorobenzene	19.6	98	24 - 191
Chloroethane	13.8	69	46 - 137
Chloroform	19.8	99	49 - 133
Chloromethane	9.1	46	1 - 193
Dibromochloromethane	23.0	115	26 - 162
1,1-Dichloroethane	18.0	90	47 - 132
1,2-Dichloroethane	20.8	104	51 - 147
1,2 Dichloroethene-(cis)	20.5	103	36 - 155
1,2 Dichloroethane-(trans)	18.1	91	36 - 155
1,1-Dichloroethene	18.4	92	28 - 167
1,2 Dichloropropane	17.5	88	44 - 156
1,3 Dichloropropene (cis)	19.0	95	14 - 186
1,3-Dichloropropene (trans)	15.6	78	22 - 178
Ethylbenzene	16.6	83	77 - 123
Methylene chloride	18.7	94	25 - 162
1,1,2,2-Tetrachloroethane	16.6	83	13 - 159
Tetrachloroethene	20.6	103	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No 6999 06
AA Project No A438106
Date Analyzed 12/31/02
Date Reported 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	19.0	95	66 - 134
1,1,1-Trichloroethane	19.7	99	41 - 138
1,1,2-Trichloroethane	15.6	78	22 - 178
Trichloroethene	22.9	115	35 - 146
Vinyl chloride	11.1	56	28 - 163
o-Xylene	20.5	103	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147777
Project No.: 6999 06
AA Project No. A438106
Date Analyzed 12/31/02
Date Reported 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	39.2	98	38.8	97	1	45 - 169
Chlorobenzene	36.0	90	37.7	93	3	37 - 160
Chloroform	39.2	98	41.6	104	6	51 - 138
1,1-Dichloroethane	36.8	92	33.8	85	8	54 - 155
1,1-Dichloroethene	38.8	97	34.2	86	12	2 - 234
Isopropyltoluene	42.0	105	44.0	110	5	50 - 150
Propylbenzene	36.2	91	38.0	95	4	50 - 150
Tetrachloroethene	36.4	91	40.8	102	11	64 - 148
Toluene	35.0	88	36.0	90	2	47 - 150
1,3,5 Trimethylbenzene	42.0	105	51.0	128	20	50 - 150
Vinyl chloride	22.2	56	20.0	50	11	2 - 251

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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Tel 818-998-5547 Fax 818-998-7258

DATE 12-18-02

PAGE 1 OF ___

A.A. Client: HART CROWSER	Phone: 562-453-6300	Sampler's Name (Print): Ryan Mitchell	
Project Manager: AK	P.O. No.	Sampler's Signature: [signature]	
Project Name: PACCAR TUKWILA	Client's Project No: 6999.01	Project Manager's Signature	
Job Name: PACCAR			
Address: 12016 12 196th STREET			

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, HLB, Cl/Br/Fluor, Poly 3082, EPA 5035, EPA 8015

Client Comment, Special Test Requirements / Comments (i.e., Turnaround Time, Detection Limits, Data Package ...)

Client ID	A.A. ID#	Date	Time	Sample Type	Number of Containers	8260B	8270C	HLB	Cl/Br/Fluor	Poly 3082	EPA 5035	EPA 8015	Comments
BL-14-005	147 725	12-18-02	0745	SOIL	3 OF 4 LINER								THIO-UREA CONTENT ANALYSIS CONTINUED
BL-14-005	147 726		0800			X					X		
BL-14-010	147 727		0815			X					X		
BL-14-015	147 728		0830										
BL-14-020	147 729		0845			X					X		
BL-14-025	147 730		0800										
BL-14-030	147 731		0815			X					X		
BL-14-035	147 732		0830										
BL-14-040	147 733		0845			X	X				X	X	
BL-14-045	147 734		0815										
BL-14-050	147 735		0830			X					X		
BL-14-055	147 736		0845										
BL-14-060	147 737		0800										
BL-14	147 738		0900	WATER	1 OF 1 (1 PINT)	X					X		MERCURY SAMPLE ALSO FILTER FOR [illegible]

LAB COMMENTS

X. Analysis added per client request 12/20/02 A.A

(2) Analysis added per client request. 12/31/02 Also Ammonia A.A Please extract and hold for analysis.

Relinquished by	Date	Time	Received by
[signature]	12-18-02		[signature] 12:40
[signature]	12-18-02	1410	[signature] 12-18-02
			[signature] 12-20-02 10:00

PACCAR 03550

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/24/02	12/24/02	12/24/02	12/24/02	
Date Analyzed	01/04/03	01/04/03	01/04/03	01/04/03	
AA ID No	147868	147869	147870	147872	
Client ID No.	BL-17@5'	BL-17@10'	BL-17@10'D	BL-17@20'D	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	<5	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/24/02	12/24/02	12/24/02	12/24/02	
Date Analyzed	01/04/03	01/04/03	01/04/03	01/04/03	
AA ID No.:	147868	147869	147870	147872	
Client ID No.:	BL-17@5'	BL-17@10'	BL-17@10'D	BL-17@20'D	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	8.1	<5	33	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	9.9	9.9	43	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/24/02	12/24/02	12/24/02	12/24/02	
Date Analyzed	01/04/03	01/04/03	01/04/03	01/04/03	
AA ID No:	147873	147875	147876	147878	
Client ID No.	BL-17@20	BL-17@30'	BL-17@30'D	BL-17@40'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	<5	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/24/02	12/24/02	12/24/02	12/24/02	
Date Analyzed	01/04/03	01/04/03	01/04/03	01/04/03	
AA ID No.	147873	147875	147876	147878	
Client ID No.:	BL-17@20'	BL-17@30	BL-17@30'D	BL-17@40'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	17	31	34	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	20	50	48	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/24/02	
Date Analyzed:	01/04/03	
AA ID No.:	147880	
Client ID No.:	BL-17@40'D	
Dilution Factor	1.0	MRL
Compounds:		
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene (cis)	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999.06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/24/02	
Date Analyzed:	01/04/03	
AA ID No.	147880	
Client ID No.	BL-17@40'D	
Dilution Factor	1.0	MR
Compounds.		
1,3-Dichloropropene-(trans)	<5	
1,1-Dichloropropene	<5	
Ethylbenzene	<2	
Hexachlorobutadiene	<10	1
2-Hexanone	<50	5
Isopropylbenzene	<5	
Isopropyltoluene	<10	1
Methyl tert Butyl Ether	<5	
4-Methyl-2-pentanone	<50	5
Methylene chloride	<50	5
Naphthalene	<10	1
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p Xylenes	<2	2
o Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrence
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A438108
Date Received: 12/26/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/24/02	
Date Analyzed:	01/04/03	
AA ID No.:	147880	
Client ID No.:	BL-17@40'D	
Dilution Factor	1.0	MRL
Compounds:		

MRL Method Reporting Limit J Estimated Value

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene (trans)	<5	5
1,1 Dichloroethene	<5	5
1,2 Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3 Dichloropropene (cis)	<5	5
1,3 Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2 Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4 Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2 Tetrachloroethane	<5	5
1,1,2,2 Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4 Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL Method Reporting Limit

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Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	21	105	65 - 135
Bromodichloromethane	22	110	42 - 172
Bromoform	23	115	22 - 135
Bromomethane	18	90	1 - 144
Carbon tetrachloride	23	115	43 - 143
Chlorobenzene	19	95	24 - 191
Chloroethane	19	95	46 - 137
Chloroform	22	110	45 - 133
Chloromethane	20	100	1 - 193
Dibromochloromethane	20	100	26 - 167
1,1-Dichloroethane	18	90	47 - 132
1,2-Dichloroethane	18	90	51 - 147
1,2 Dichloroethene-(cis)	22	110	38 - 155
1,2-Dichloroethene-(trans)	20	100	38 - 155
1,1 Dichloroethene	20	100	28 - 167
1,2 Dichloropropane	17	85	44 - 156
1,3 Dichloropropene (cis)	21	105	14 - 186
1,3 Dichloropropene-(trans)	19	95	22 - 178
Ethylbenzene	16	80	17 - 123
Methylene chloride	23	115	25 - 162
1,1,2,2 Tetrachloroethane	16	80	13 - 159
Tetrachloroethene	21	105	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	16	80	66 - 134
1,1,1-Trichloroethane	21	105	41 - 138
1,1,2-Trichloroethane	16	80	22 - 178
Trichloroethene	22	110	35 - 146
Vinyl chloride	20	100	28 - 163
o Xylene	19	95	73 - 127

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LABORATORY QA/QC REPORT

Client: Ken Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147868
Project No.: 699906
AA Project No.: A438108
Date Analyzed: 01/04/03
Date Reported: 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec Range (%)
Bromoform	46.1	115	46.2	116	1	45 - 169
Chlorobenzene	40.1	100	38.4	96	4	37 - 160
Chloroform	40.2	101	46.7	117	15	51 - 138
1,1-Dichloroethane	35.1	88	37.3	93	6	54 - 155
1,1-Dichloroethene	33.1	83	33.0	83	0	2 - 234
Isopropyltoluene	45.3	113	46.5	116	3	50 - 150
Propylbenzene	30.0	75	31.6	79	5	50 - 150
Tetrachloroethene	40.9	102	38.8	97	5	64 - 148
Toluene	31.4	79	32.0	80	1	47 - 150
1,3,5-Trimethylbenzene	46.4	116	49.4	124	7	50 - 150
Vinyl chloride	24.7	62	28.0	70	12	2 - 251

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 № 300429
Tel 818-998-5547 FAX 818-998-7258
DATE 12-24-02
PAGE 1 OF 1

AA Client: Hart Crowser
Project Manager: Bob
Project Name: Paccar Torrance
Job Name and Address: 1200 W 190th St
Phone
P.O. No.
Client's Project No.: 699106
Sampler's Name (Print): Ryan Nikolaidis
Sampler's Signature
Project Manager's Signature
ANALYSIS REQUIRED (Test Name): 8260B, 8270, 8015, 8021, 8260B
Client Comment Sample Test Requirements/Comments
Turnaround Time Detection Limits Data Package

Client ID	AA ID	Date	Time	Sample Type	Number of Containers
B-112802.0	142866	11-21-02	7:45	Soil	1
B-112802.5	142867		7:50		
B-112803	142868		7:55		
B-112803.0	142869		7:55		
B-112803.5	142870		8:00		
B-112804	142871		8:05		
B-112804.0	142872		8:05		
B-112804.5	142873		8:05		
B-112805	142874		8:15		
B-112805.0	142875		8:25		
B-112805.5	142876		8:25		
B-112806	142877		8:35		
B-112806.5	142878		8:35		
B-112807	142879		8:45		
B-112807.0	142880		9:45		
B-112807.5	142881		9:45		

LAB COMMENTS: 1. Sample when below 5% Vol. 2. Back low methods use Check header. Signature 12/27/02 A.A.

Relinquished by: Date Time
Received by: Date Time
AA Project No.: A100108

'02 DEC 26 PM 9:21

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 № 300425
Tel 818-998-5547 FAX 818-998-7258
DATE 12-24-02
PAGE 1 OF 2

AA Client: Hart Crowser
Project Manager: Bob
Project Name: Paccar Torrance
Job Name and Address: 1200 W 190th St
Phone
P.O. No.
Client's Project No.: 699106
Sampler's Name (Print): Ryan Nikolaidis
Sampler's Signature
Project Manager's Signature
ANALYSIS REQUIRED (Test Name): 8260B, 8270, 8015, 8021, 8260B
Client Comment Sample Test Requirements/Comments
Turnaround Time Detection Limits Data Package

Client ID	AA ID	Date	Time	Sample Type	Number of Containers
B-112802.0	142866	11-21-02	7:45	Soil	1
B-112802.5	142867		7:50		
B-112803	142868		7:55		
B-112803.0	142869		7:55		
B-112803.5	142870		8:00		
B-112804	142871		8:05		
B-112804.0	142872		8:05		
B-112804.5	142873		8:05		
B-112805	142874		8:15		
B-112805.0	142875		8:25		
B-112805.5	142876		8:25		
B-112806	142877		8:35		
B-112806.5	142878		8:35		
B-112807	142879		8:45		
B-112807.0	142880		9:45		
B-112807.5	142881		9:45		

LAB COMMENTS: 1. Sample when below 5% Vol. 2. Back low methods use Check header. Signature 12/27/02 A.A.

Relinquished by: Date Time
Received by: Date Time
AA Project No.: A100108

'02 DEC 26 PM 9:21

PACCAR 03554

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No. A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	01/02/03	01/02/03	01/02/03	01/14/03	
Date Extracted:	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No:	146783	146796	146809	146822	
Client ID No.:	BL-1@40'	BL-2@40'	BL-3@40'	BL-4@40'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acenaphthene	<0.1	<0.1	<0.1	<0.1	0.1
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	0.1
Aniline	<0.2	<0.2	<0.2	<0.2	0.2
Anthracene	<0.1	<0.1	<0.1	<0.1	0.1
Azobenzene	<0.1	<0.1	<0.1	<0.1	0.1
Benzidine	<0.4	<0.4	<0.4	<0.4	0.4
Benzo(a)anthracene	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(a)pyrene	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	<0.1	<0.1	<0.1	0.1
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	<0.1	0.1
Benzoic acid	<1	<1	<1	<1	1
Benzyl Alcohol	<0.1	<0.1	<0.1	<0.1	0.1
Bis(2 chloroethoxy)methane	<0.1	<0.1	<0.1	<0.1	0.1
Bis(2 chloroethyl)ether	<0.1	<0.1	<0.1	<0.1	0.1
Bis(2 chloroisopropyl)ether	<0.1	<0.1	<0.1	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	<0.2	<0.2	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	<0.1	<0.1	<0.1	0.1
Butyl benzyl phthalate	<0.5	<0.5	<0.5	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	<0.2	<0.2	<0.2	0.2
4 Chloroaniline	<0.4	<0.4	<0.4	<0.4	0.4
2-Chloronaphthalene	<0.1	<0.1	<0.1	<0.1	0.1
2-Chlorophenol	<0.1	<0.1	<0.1	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	<0.1	<0.1	<0.1	0.1
Chrysene	<0.1	<0.1	<0.1	<0.1	0.1
Di-n-butyl phthalate	<2	<2	<2	<2	2
Di-n-octyl phthalate	<0.1	<0.1	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	<0.1	<0.1	<0.1	0.1
Dibenzofuran	<0.1	<0.1	<0.1	<0.1	0.1
1,2 Dichlorobenzene	<0.1	<0.1	<0.1	<0.1	0.1
1,3-Dichlorobenzene	<0.1	<0.1	<0.1	<0.1	0.1
1,4-Dichlorobenzene	<0.1	<0.1	<0.1	<0.1	0.1
3,3 Dichlorobenzidine	<0.4	<0.4	<0.4	<0.4	0.4

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	01/02/03	01/02/03	01/02/03	01/14/03	
Date Extracted	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No:	146783	146796	146809	146822	
Client ID No.	BL-1@40'	BL-2@40'	BL-3@40'	BL-4@40'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
2,4-Dichlorophenol	<0.1	<0.1	<0.1	<0.1	0.1
Diethylphthalate	<0.8	<0.8	<0.8	<0.8	0.8
2,4-Dimethylphenol	<0.1	<0.1	<0.1	<0.1	0.1
Dimethylphthalate	<0.2	<0.2	<0.2	<0.2	0.2
2,4 Dinitrophenol	<0.4	<0.4	<0.4	<0.4	0.4
2,4-Dinitrotoluene	<0.1	<0.1	<0.1	<0.1	0.1
2,6-Dinitrotoluene	<0.1	<0.1	<0.1	<0.1	0.1
Fluoranthene	<0.1	<0.1	<0.1	<0.1	0.1
Fluorene	<0.1	<0.1	<0.1	<0.1	0.1
Hexachlorobenzene	<0.1	<0.1	<0.1	<0.1	0.1
Hexachlorobutadiene	<0.1	<0.1	<0.1	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	<0.1	<0.1	<0.1	0.1
Hexachloroethane	<0.1	<0.1	<0.1	<0.1	0.1
Indeno(1,2,3 cd)pyrene	<0.4	<0.4	<0.4	<0.4	0.4
Isophorone	<0.1	<0.1	<0.1	<0.1	0.1
2-Methyl-4,6 dinitrophenol	<0.2	<0.2	<0.2	<0.2	0.2
2 Methylnaphthalene	<0.1	<0.1	<0.1	<0.1	0.1
2 Methylphenol	<0.2	<0.2	<0.2	<0.2	0.2
4-Methylphenol	<0.2	<0.2	<0.2	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	<0.1	<0.1	<0.1	0.1
N-Nitrosodimethylamine	<0.1	<0.1	<0.1	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	<0.1	<0.1	<0.1	0.1
Naphthalene	<0.1	<0.1	<0.1	<0.1	0.1
2 Nitroaniline	<0.1	<0.1	<0.1	<0.1	0.1
3 Nitroaniline	<0.4	<0.4	<0.4	<0.4	0.4
4 Nitroaniline	<0.2	<0.2	<0.2	<0.2	0.2
Nitrobenzene	<0.1	<0.1	<0.1	<0.1	0.1
2-Nitrophenol	<0.2	<0.2	<0.2	<0.2	0.2
4 Nitrophenol	<0.2	<0.2	<0.2	<0.2	0.2
Pentachlorophenol	<0.1	<0.1	<0.1	<0.1	0.1
Phenanthrene	<0.1	<0.1	<0.1	<0.1	0.1
Phenol	<0.1	<0.1	<0.1	<0.1	0.1
Pyrene	<0.1	<0.1	<0.1	<0.1	0.1

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No. A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	01/02/03	01/02/03	01/02/03	01/14/03	
Date Extracted:	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No	146783	146796	146809	146822	
Client ID No.:	BL-1@40'	BL-2@40'	BL-3@40'	BL-4@40'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,2,4-Trichlorobenzene	<0.1	<0.1	<0.1	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	<0.2	<0.2	<0.2	0.2
2,4,6 Trichlorophenol	<0.2	<0.2	<0.2	<0.2	0.2

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: 418.1 (TRPH)

AA Project No. A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: mg/Kg

AA I.D. No	Client I.D. No.	Date Extracted	Date Sampled	Date Analyzed	DF	Results	MRL
146775	BL-1@5	12/24/02	12/10/02	12/24/02	1.0	<5	5
146789	BL-2@5	12/24/02	12/10/02	12/24/02	1.0	<5	5
146802	BL-3@5	12/24/02	12/10/02	12/24/02	1.0	55	5
146815	BL-4@5	12/24/02	12/10/02	12/24/02	1.0	<5	5

MRL Method Reporting Limit J Estimated Value DF Dilution Factor

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: CAM Metals

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: mg/Kg

Date Sampled:	12/10/02	12/10/02	
Date Analyzed:	01/13/03	01/13/03	
AA ID No	146774	146788	
Client ID No.	BL-1@0.5'	BL-2@0.5'	
Dilution Factor:	1.0	1.0	MRL
Compounds			
Antimony	<10	<10	10
Arsenic	4.2	2.2	0.5
Barium	120	98	10
Beryllium	<1	<1	1
Cadmium	<1	<1	1
Chromium	17	16	3
Cobalt	8.6	10	3
Copper	23	15	3
Lead	4.4	5.0	3
Mercury	<0.05	<0.05	0.05
Molybdenum	<5	<5	5
Nickel	10	7.3	3
Selenium	<0.5	<0.5	0.5
Silver	1.1	<1	1
Thallium	<5	<5	5
Vanadium	37	35	10
Zinc	53	37	3

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/27/02	12/27/02	12/27/02	12/27/02	
Date Extracted.	12/24/02	12/24/02	12/24/02	12/24/02	
AA ID No.:	146783	146795	146809	146822	
Client ID No:	BL-1@40'	BL-2@40'	BL-3@40'	BL-4@40'	
Dilution Factor	1.0	1.0	1.0	1.0	MR
Compounds					
Aroclor 1016	<100	<100	<100	<100	10
Aroclor 1221	<100	<100	<100	<100	10
Aroclor 1232	<100	<100	<100	<100	10
Aroclor 1242	<100	<100	<100	<100	10
Aroclor 1248	<100	<100	<100	<100	10
Aroclor 1254	<100	<100	<100	<100	10
Aroclor 1260	<100	<100	<100	<100	10

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed.	12/19/02	12/19/02	12/19/02	12/19/02	
AA ID No	146776	146779	146781	146783	
Client ID No:	BL-1@10'	BL-1@20'	BL-1@30'	BL-1@40'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2 Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon Disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	15	19	5
Chloromethane	<5	<5	<5	<5	5
2 Chlorotoluene	<5	<5	<5	<5	5
4 Chlorotoluene	<5	<5	<5	<5	5
1 2 Dibromo 3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1 2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1 2 Dichlorobenzene	<5	<5	24	34	5
1 3 Dichlorobenzene	<5	<5	<5	<5	5
1 4-Dichlorobenzene	<5	<5	12	18	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1 2-Dichloroethane	<5	<5	11	14	5
1,2 Dichloroethene-(cis)	<5	<5	32	41	5
1 2 Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2 Dichloropropane	<5	<5	<5	<5	5
1 3 Dichloropropane	<5	<5	<5	<5	5
2 2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/19/02	12/19/02	12/19/02	12/19/02	
AA ID No.:	146776	146779	146781	146783	
Client ID No.:	BL-1@10'	BL-1@20'	BL-1@30'	BL-1@40'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds.					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1 1 Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4 Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	110	130	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1 1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	11	500	630	5
Toluene	<2	<2	<2	<2	2
1,2 3 Trichlorobenzene	<5	<5	<5	<5	5
1 2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1 1 Trichloroethane	<5	<5	<5	<5	5
1,1,2 Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	9.1	570	680	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2 3 Trichloropropane	<5	<5	<5	<5	5
1 2,4 Trimethylbenzene	<5	<5	<5	<5	5
1 3 5 Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/19/02	12/19/02	12/19/02	12/19/02	
AA ID No.	146785	146786	146787	146790	
Client ID No:	BL-1@50'	BL-1@55'	BL-1@60'	BL-2@10'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	3.6	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	8.5	14	18	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	30	71	6.5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	16	7.4	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	6.6	13	<5	<5	5
1,2-Dichloroethene-(cis)	19	27	47	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/19/02	12/19/02	12/19/02	12/19/02	
AA ID No.:	146785	146786	146787	146790	
Client ID No:	BL-1@50'	BL-1@55'	BL-1@60'	BL-2@10'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2 pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	360	370	1700	120	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	250	500	3100	100	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No	146792	146794	146796	146798	
Client ID No:	BL-2@20'	BL-2@30'	BL-2@40'	BL-2@50'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds.					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	2.6	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	13	33	14	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	5.8	11	6.0	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	9.3	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene (cis)	<5	24	43	27	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No.:	146792	146794	146796	146798	
Client ID No:	BL-2@20'	BL-2@30'	BL-2@40'	BL-2@50'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	76	350	440	530	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	100	440	660	800	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No	146799	146800	146803	146805	
Client ID No:	BL-2@55'	BL-2@60'	BL-3@10'	BL-3@70'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	9.0	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	6.3	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	5.2	16	<5	8.3	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02
Date Analyzed:	12/16/02	12/16/02	12/16/02	12/16/02
AA ID No	146799	146800	146803	146805
Client ID No.:	BL-2@55'	BL-2@60'	BL-3@10'	BL-3@70'
Dilution Factor:	1.0	1.0	1.0	1.0
Compounds				
1,3-Dichloropropene-(trans)	<5	<5	<5	<5
1,1-Dichloropropene	<5	<5	<5	<5
Ethylbenzene	<2	<2	<2	<2
Hexachlorobutadiene	<10	<10	<10	<10
2-Hexanone	<50	<50	<50	<50
Isopropylbenzene	<5	<5	<5	<5
Isopropyltoluene	<10	<10	<10	<10
Methyl tert-Butyl Ether	<5	<5	<5	<5
4-Methyl 2 pentanone	<50	<50	<50	<50
Methylene chloride	<50	<50	<50	<50
Naphthalene	<10	<10	<10	<10
Propylbenzene	<5	<5	<5	<5
Styrene	<5	<5	<5	<5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5
Tetrachloroethene	120	390	160	280
Toluene	<2	<2	<2	<2
1,2,3-Trichlorobenzene	<5	<5	<5	<5
1,2,4-Trichlorobenzene	<5	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5	<5
Trichloroethene	180	510	240	370
Trichlorofluoromethane	<5	<5	<5	<5
1,2,3-Trichloropropane	<5	<5	<5	<5
1,2,4-Trimethylbenzene	<5	<5	<5	<5
1,3,5-Trimethylbenzene	<5	<5	<5	<5
Vinyl chloride	<5	<5	<5	<5
m,p-Xylenes	<2	<2	<2	<2
o-Xylene	<2	<2	<2	<2
sec-Butylbenzene	<5	<5	<5	<5
tert-Butylbenzene	<5	<5	<5	<5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed.	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No..	146807	146809	146811	146813	
Client ID No:	BL-3@30'	BL-3@40	BL-3@50'	BL-3@60'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds.					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	5.8	5.2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane.	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	11	7.8	27	26	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	5.9	7.0	11	12	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	6.9	7.5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	6.8	5
1,2-Dichloroethene-(cis)	29	20	57	53	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No.	146807	146809	146811	146813	
Client ID No	BL-3@30	BL-3@40	BL-3@50'	BL-3@60'	
Dilution Factor	1.0	1.0	1.0	1.0	h
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	
1,1-Dichloropropene	<5	<5	<5	<5	
Ethylbenzene	<2	<2	<2	<2	
Hexachlorobutadiene	<10	<10	<10	<10	
2-Hexanone	<50	<50	<50	<50	
Isopropylbenzene	<5	<5	<5	<5	
Isopropyltoluene	<10	<10	<10	<10	
Methyl tert-Butyl Ether	<5	<5	<5	<5	
4-Methyl 2-pentanone	<50	<50	<50	<50	
Methylene chloride	<50	<50	53	100	
Naphthalene	<10	<10	<10	<10	
Propylbenzene	<5	<5	<5	<5	
Styrene	<5	<5	<5	<5	
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	
Tetrachloroethene	310	340	860	370	
Toluene	<2	<2	<2	<2	
1,2,3-Trichlorobenzene	<5	<5	<5	<5	
1,2,4-Trichlorobenzene	<5	<5	<5	<5	
1,1,1-Trichloroethane	<5	<5	<5	<5	
1,1,2-Trichloroethane	<5	<5	<5	<5	
Trichloroethene	450	390	1600	700	
Trichlorofluoromethane	<5	<5	<5	<5	
1,2,3-Trichloropropane	<5	<5	<5	<5	
1,2,4-Trimethylbenzene	<5	<5	<5	<5	
1,3,5-Trimethylbenzene	<5	<5	<5	<5	
Vinyl chloride	<5	<5	<5	<5	
m,p-Xylenes	<2	<2	<2	<2	
o-Xylene	<2	<2	<2	<2	
sec-Butylbenzene	<5	<5	<5	<5	
tert-Butylbenzene	<5	<5	<5	<5	

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6995.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No.:	146816	146818	146820	146822	
Client ID No.:	BL-4@10'	BL-4@20'	BL-4@30'	BL-4@40'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	3.4	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	17	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	5.9	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	34	20	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled:	12/10/02	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/16/02	12/16/02	12/16/02	12/16/02	
AA ID No.	146816	146818	146820	146822	
Client ID No.:	BL-4@10'	BL-4@20'	BL-4@30'	BL-4@40'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	67	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	46	35	120	200	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	65	33	280	180	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	
Date Analyzed:	12/19/02	12/19/02	12/19/02	
AA ID No.:	146823	146824	146826	
Client ID No.:	BL-4@45'	BL-4@50'	BL-4@60	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
Acetone	<50	<50	<50	50
Benzene	<2	2.1	<2	2
Bromobenzene	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	5
Bromoform	<5	<5	<5	5
Bromomethane	<5	<5	<5	5
2-Butanone	<50	<50	<50	50
Butylbenzene	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	5
Chloroethane	<5	<5	<5	5
Chloroform	5.9	19	9.3	5
Chloromethane	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	5
Dibromomethane	<5	<5	<5	5
1,2-Dichlorobenzene	<5	18	<5	5
1,3-Dichlorobenzene	<5	<5	<5	5
1,4-Dichlorobenzene	<5	12	<5	5
Dichlorodifluoromethane	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	5
1,2-Dichloroethane	<5	11	<5	5
1,2-Dichloroethene-(cis)	24	60	32	5
1,2-Dichloroethene-(trans)	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/kg

Date Sampled	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/19/02	12/19/02	12/19/02	
AA ID No.:	146823	146824	146826	
Client ID No.:	BL-4@45'	BL-4@50'	BL-4@60'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				
1,3-Dichloropropene-(trans)	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	10
2-Hexanone	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	50
Methylene chloride	<50	140	<50	50
Naphthalene	<10	<10	<10	10
Propylbenzene	<5	<5	<5	5
Styrene	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	5
Tetrachloroethene	230	890	440	5
Toluene	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	5
Trichloroethene	210	1000	710	5
Trichlorofluoromethane	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	2
o-Xylene	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43896
Date Received: 12/11/02
Date Reported: 01/15/03
Units: ug/Kg

Date Sampled	12/10/02	12/10/02	12/10/02	
Date Analyzed	12/19/02	12/19/02	12/19/02	
AA ID No.	146823	146824	146826	
Client ID No.	BL-4@45'	BL-4@50'	BL-4@60'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds				

MRL: Method Reporting Limit J: Estimated Value

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No.: A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No. A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 12/19/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 12/19/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2-Dichloroethene (trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A43896
Date Analyzed: 12/19/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec Butylbenzene	<5	5
tert Butylbenzene	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No: A43896
Date Analyzed: 12/27/02
Date Reported: 01/15/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999 06
AA Project No: A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	21	105	65 - 135
Bromodichloromethane	21	105	42 - 172
Bromoform	20	100	22 - 135
Bromomethane	17	85	1 - 144
Carbon tetrachloride	21	105	43 - 143
Chlorobenzene	21	105	24 - 191
Chloroethane	17	85	46 - 137
Chloroform	20	100	49 - 133
Chloromethane	15	75	1 - 193
Dibromochloromethane	21	105	26 - 162
1,1-Dichloroethane	18	90	47 - 132
1,2-Dichloroethane	21	105	51 - 147
1,2-Dichloroethene-(cis)	18	90	38 - 155
1,2-Dichloroethene-(trans)	19	95	38 - 155
1,1-Dichloroethene	17	85	28 - 167
1,2-Dichloropropane	19	95	44 - 156
1,3-Dichloropropene-(cis)	20	100	14 - 186
1,3-Dichloropropene-(trans)	18	90	22 - 178
Ethylbenzene	18	90	77 - 123
Methylene chloride	20	100	25 - 162
1,1,2,2-Tetrachloroethane	19	95	13 - 159
Tetrachloroethene	22	110	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999 06
AA Project No: A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	19	95	66 - 134
1,1,1-Trichloroethane	21	105	41 - 138
1,1,2-Trichloroethane	19	95	22 - 178
Trichloroethene	22	110	35 - 146
Vinyl chloride	15	75	28 - 163
o-Xylene	22	110	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999.06
AA Project No: A43896
Date Analyzed: 12/19/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	18	90	65 - 135
Bromodichloromethane	19	95	42 - 172
Bromoform	18	90	22 - 135
Bromomethane	16	80	1 - 144
Carbon tetrachloride	20	100	43 - 143
Chlorobenzene	21	105	24 - 191
Chloroethane	15	75	46 - 137
Chloroform	19	95	49 - 133
Chloromethane	12	60	1 - 193
Dibromochloromethane	19	95	26 - 162
1,1-Dichloroethane	17	85	47 - 132
1,2-Dichloroethane	20	100	51 - 147
1,2-Dichloroethene-(cis)	20	100	38 - 155
1,2-Dichloroethene-(trans)	19	95	38 - 155
1,1-Dichloroethene	16	80	28 - 167
1,2-Dichloropropane	16	80	44 - 156
1,3-Dichloropropene-(cis)	17	85	14 - 186
1,3-Dichloropropene-(trans)	18	90	22 - 178
Ethylbenzene	17	85	77 - 123
Methylene chloride	19	95	25 - 162
1,1,2,2-Tetrachloroethane	15	75	13 - 159
Tetrachloroethene	24	120	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No: A43896
Date Analyzed: 12/19/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	19	95	66 - 134
1,1,1-Trichloroethane	20	100	41 - 138
1,1,2-Trichloroethane	16	80	22 - 178
Trichloroethene	21	105	35 - 146
Vinyl chloride	13	65	28 - 163
o-Xylene	21	105	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Laboratory Control Standard
Concentration: 40 mg/Kg

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 12/24/02
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
TRPH	40	100	30 - 170

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 12/21/02
Date Reported: 01/15/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	499	100	70 - 130
Aroclor 1260	597	119	70 - 130

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	47.0	94	47 - 145
Acenaphthylene	45.0	90	33 - 145
Anthracene	45.6	91	27 - 133
Benzo(b)fluoranthene	45.8	94	24 - 159
Bis(2-chloroethyl)ether	45.6	91	12 - 158
Butyl benzyl phthalate	49.5	99	2 - 152
2-Chloronaphthalene	40.4	81	60 - 118
4-Chlorophenyl phenyl ether	44.3	89	25 - 158
1,2-Dichlorobenzene	37.4	75	32 - 129
1,3-Dichlorobenzene	38.3	77	2 - 172
1,4-Dichlorobenzene	38.3	77	20 - 124
Diethylphthalate	56.6	113	2 - 114
Dimethylphthalate	46.1	92	2 - 112
Fluoranthene	45.2	90	26 - 137
Fluorene	47.6	95	59 - 121
Hexachlorobenzene	49.2	98	2 - 152
Hexachlorobutadiene	38.4	77	24 - 116
Hexachloroethane	42.0	84	40 - 113
Isophorone	43.5	87	21 - 196
Naphthalene	45.6	91	21 - 133
Nitrobenzene	47.8	95	35 - 180
2-Nitrophenol	70.1	140	29 - 182

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No.: A43896
Date Analyzed: 01/02/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	51.0	102	14 - 176
Phenol	47.7	95	5 - 112
1,2,4-Trichlorobenzene	38.2	76	44 - 142
2,4,6-Trichlorophenol	55.6	111	37 - 144

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Laboratory Control Standard
Concentration: 50 mg/Kg

Project No: 6999 06
AA Project No: A43896
Date Analyzed: 01/13/03
Date Reported: 01/15/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
Antimony	47.1	94	75 - 125
Arsenic	49.3	99	75 - 125
Barium	46.0	92	75 - 125
Beryllium	50.2	100	75 - 125
Cadmium	48.0	96	75 - 125
Chromium	48.2	96	75 - 125
Cobalt	47.9	96	75 - 125
Copper	48.4	97	75 - 125
Lead	49.5	99	75 - 125
Mercury	48.4	97	75 - 125
Molybdenum	48.0	96	75 - 125
Nickel	47.2	94	75 - 125
Selenium	42.5	85	75 - 125
Silver	38.0	76	75 - 125
Thallium	48.0	96	75 - 125
Vanadium	48.5	97	75 - 125
Zinc	46.6	97	75 - 125

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 146792
Project No: 6999 06
AA Project No: A43896
Date Analyzed: 12/16/02
Date Reported: 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	39.5	99	42.1	105	6	45 - 169
Chlorobenzene	43.6	109	43.4	109	0	37 - 160
Chloroform	44.2	111	45.5	114	3	51 - 138
1,1-Dichloroethane	38.2	96	39.7	99	3	54 - 155
1,1-Dichloroethene	36.0	90	40.0	100	11	2 - 234
Isopropylbenzene	45.4	114	48.4	121	6	50 - 150
Propylbenzene	37.9	95	37.1	93	2	50 - 150
Tetrachloroethene	47.0	118	47.2	118	0	64 - 148
Toluene	38.0	95	39.3	98	3	47 - 150
1,3,5-Trimethylbenzene	50.0	125	51.0	128	2	50 - 150
Vinyl chloride	32.7	82	33.2	83	1	2 - 251

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 146776
Project No.: 6999 06
AA Project No. A43896
Date Analyzed 12/19/02
Date Reported 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec Range (%)
Bromoform	38.8	97	37.8	95	2	45 - 169
Chlorobenzene	39.6	99	38.5	96	3	37 - 160
Chloroform	40.8	102	39.2	98	4	51 - 138
1,1-Dichloroethane	37.8	95	35.1	88	8	54 - 155
1,1-Dichloroethene	34.1	85	31.1	78	9	2 - 234
Isopropylbenzene	44.0	110	43.2	108	2	50 - 150
Propylbenzene	36.2	91	35.5	89	2	50 - 150
Tetrachloroethene	40.5	101	39.2	98	3	64 - 148
Toluene	36.2	91	35.0	88	3	47 - 150
1,3,5-Trimethylbenzene	44.3	111	44.8	112	1	50 - 150
Vinyl chloride	30.4	76	27.4	69	10	2 - 251

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No. 146822
Project No.: 6999 06
AA Project No A43896
Date Analyzed 12/27/02
Date Reported 01/15/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept. Rec Range (%)
Aroclor 1016	552	110	523	105	5	50 - 150
Aroclor 1260	597	119	593	119	0	50 - 150

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Man Crowser, Inc
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Matrix Spike
Concentration: 50 mg/kg

AA ID No: 146774
Project No.: 6999.06
AA Project No: A42896
Date Analyzed: 01/13/03
Date Reported: 01/15/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup Result (mg/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec. Range (%)
Antimony	14.0	28	13.0	26	7	20 - 120
Arsenic	52.5	105	45.5	99	6	50 - 150
Barium	80.0	160	76.0	152	5	50 - 150
Beryllium	51.0	102	48.8	98	4	50 - 150
Cadmium	44.4	89	43.1	86	3	50 - 150
Chromium	43.8	88	44.8	90	2	50 - 150
Cobalt	44.4	89	44.3	89	0	50 - 150
Copper	50.3	101	51.8	104	3	50 - 150
Lead	47.2	94	46.4	93	1	50 - 150
Mercury	49.6	99	50.9	102	3	50 - 150
Molybdenum	47.5	95	44.8	90	5	50 - 150
Nickel	41.7	83	42.2	84	1	50 - 150
Selenium	46.3	93	43.8	98	5	50 - 150
Silver	58.9	118	53.3	107	10	50 - 150
Thallium	48.7	97	47.5	95	2	50 - 150
Vanadium	41.3	83	47.0	94	12	50 - 150
Zinc	47.0	94	51.0	102	8	50 - 150

Allen Ammiran
Project Manager

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201370
Tel 818-998-5547 FAX 818-998-7258
DATE 12-10-02 PAGE 2 of 2

AA Client: Man Crowser
Project Manager: NK
Project Name: Paccar Torrance
Job Name: Same
Site Address: 1200 W. 190th Street
Phone:
P.O. No.:
Client Project No.: CAM QC
Sampler's Name (Print): Ryan McLaughlin
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Lab Blank, Blank, Spike, Spike Dup, EPA 8270C, EPA 8082, EPA 8021, EPA 8260B, EPA 6010B, EPA 7470A, EPA 7471A, EPA 8015M

Client ID	AA No.	Date	Time	Sample Type	Number of Containers
BL-12-02	146782	12-10-02	2:10	Spike	3 Soil Jars
BL-2-02	146783		1:40		
BL-3-02	146785		1:20		
BL-3-02	146786		2:40		
BL-3-02	146787		2:10		
BL-3-02	146792		6:30		
BL-3-02	146793		2:45		
BL-3-02	146794		8:00		
BL-4-02	146795		8:05		
BL-4-02	146796		3:15		
BL-4-02	146797		6:30		
BL-4-02	146798		2:45		
BL-4-02	146799		1:00		
BL-4-02	146800		4:15		
BL-4-02	146821		9:45		
BL-4-02	146822				

Client Comment Special Test Requirements/Comments: Hold samples contact Christine Gallagher to run spike.
Estimate Gallagher Sample Blank
(X) Sample was added Requested Results

LAB COMMENTS:

Relinquished by: 12/11
Received by: 12/11
Relinquished by: Date Time
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

AA Project No. A42896

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201371
Tel 818-998-5547 FAX 818-998-7258
DATE 12-10-02 PAGE 3 of 4

AA Client: Man Crowser
Project Manager: NK
Project Name: Paccar Torrance
Job Name: Same
Site Address: 1200 W. 190th Street
Phone:
P.O. No.:
Client Project No.: CAM QC
Sampler's Name (Print): Ryan McLaughlin
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Lab Blank, Blank, Spike, Spike Dup, EPA 8270C, EPA 8082, EPA 8021, EPA 8260B, EPA 6010B, EPA 7470A, EPA 7471A, EPA 8015M

Client ID	AA No.	Date	Time	Sample Type	Number of Containers
BL-3-02	146782	12-10-02	2:10	Spike	3 Soil Jars
BL-3-02	146783		1:40		
BL-3-02	146785		1:20		
BL-3-02	146786		2:40		
BL-3-02	146787		2:10		
BL-3-02	146792		6:30		
BL-3-02	146793		2:45		
BL-3-02	146794		8:00		
BL-4-02	146795		8:05		
BL-4-02	146796		3:15		
BL-4-02	146797		6:30		
BL-4-02	146798		2:45		
BL-4-02	146799		1:00		
BL-4-02	146800		4:15		
BL-4-02	146821		9:45		
BL-4-02	146822				

Client Comment Special Test Requirements/Comments: Hold contact Christine Gallagher before running samples.
(X) Sample was added Requested Results
Product Request
A.A. 12/11/02

LAB COMMENTS:

Relinquished by: 12/11
Received by: 12/11
Relinquished by: Date Time
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

AA Project No. A42896

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
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Tel 818-998-5547 FAX 818-998-7258
DATE 12-10-02 PAGE 1 of 4

AA Client: Man Crowser
Project Manager: R. Gallagher
Project Name: Paccar Torrance
Job Name: Paccar Torr. Bldg. 6A
Site Address: 1200 W. 190th St. Torrance, CA
Phone: 562-495-6260
P.O. No.: 6A
Client Project No.: 6999.06
Sampler's Name (Print): Ryan McLaughlin
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Blank, Spike, Spike Dup, EPA 8270C, EPA 8082, EPA 8021, EPA 8260B, EPA 6010B, EPA 7470A, EPA 7471A, EPA 8015M

Client ID	AA No.	Date	Time	Sample Type	Number of Containers
BL-1-02	146774	12-10-02	10:40	Spike	3 Soil Jars
BL-1-02	146775		10:42		
BL-1-02	146776		10:45		
BL-1-02	146778		10:50		
BL-1-02	146779		10:55		
BL-1-02	146780		11:00		
BL-1-02	146781		11:05		
BL-1-02	146782		11:10		
BL-1-02	146783		11:20		
BL-1-02	146785		11:25		
BL-1-02	146786		11:30		
BL-1-02	146787		11:35		
BL-1-02	146792		11:45		
BL-1-02	146793		11:55		
BL-2-02	146794		3:00		
BL-2-02	146795		3:05		
BL-2-02	146796		3:15		

Client Comment Special Test Requirements/Comments: Put Aa on hold contact Christine Gallagher before running samples.
(X) added per client request with confirmation on 12/12/02 AA
Write, Bill, Metal, BTEX analysis where added. Per Analysis Lab. request 12/13/02 A.A.

LAB COMMENTS:

Relinquished by: 12/11
Received by: 12/11
Relinquished by: Date Time
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

AA Project No. A42896

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201370
Tel 818-998-5547 FAX 818-998-7258
DATE 12-10-02 PAGE 2 of 2

AA Client: Man Crowser
Project Manager: NK
Project Name: Paccar Torrance
Job Name: Same
Site Address: 1200 W. 190th Street
Phone:
P.O. No.:
Client Project No.: CAM QC
Sampler's Name (Print): Ryan McLaughlin
Sampler's Signature:
Project Manager's Signature:

ANALYSIS REQUIRED (Test Name): Lab Blank, Blank, Spike, Spike Dup, EPA 8270C, EPA 8082, EPA 8021, EPA 8260B, EPA 6010B, EPA 7470A, EPA 7471A, EPA 8015M

Client ID	AA No.	Date	Time	Sample Type	Number of Containers
BL-2-02	146784	12-10-02	10:00	Spike	3 Soil Jars
BL-2-02	146785		10:05		
BL-2-02	146786		10:10		
BL-2-02	146787		10:15		
BL-2-02	146788		10:20		
BL-2-02	146789		10:25		
BL-2-02	146790		10:30		
BL-2-02	146791		10:35		
BL-2-02	146792		10:40		
BL-2-02	146793		10:45		
BL-2-02	146794		10:50		
BL-2-02	146795		10:55		
BL-2-02	146796		11:00		
BL-2-02	146797		11:05		
BL-2-02	146798		11:10		
BL-2-02	146799		11:15		
BL-2-02	146800		11:20		
BL-2-02	146801		11:25		
BL-2-02	146802		11:30		
BL-2-02	146803		11:35		
BL-2-02	146804		11:40		
BL-2-02	146805		11:45		
BL-2-02	146806		11:50		

Client Comment Special Test Requirements/Comments: Put Aa on hold contact Christine Gallagher before running samples.
(X) added per client request with confirmation on 12/12/02 AA
Write, Bill, Metal, BTEX analysis where added. Per Analysis Lab. request 12/13/02 A.A.

LAB COMMENTS:

Relinquished by: 12/11
Received by: 12/11
Relinquished by: Date Time
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

AA Project No. A42896

PACCAR 03565

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DATE 12-10-02

PAGE 4 of 4

AA Client: HART CROWSER	Phone	Sampler's Name (Print): Ryan N. Smith
Project Manager: ABC	P.O. No.	Sampler's Signature: [signature]
Project Name: PACCAR TORRANCE	Client's Project No.: 6799.02	Project Manager's Signature
Job Name and Address: [illegible] 1206 W 16th ST		

ANALYSIS REQUIRED (Test Name)

Client's Comment: Special Test Requirements / Comments

Turnaround Time Detection Limits Data Package.....

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	8260B	8270C	418.1	8081-8082	6010/7000	E[illegible]					Client's Comment
BL-4245	146823	12-10-02	10:10	3012	[illegible]	X	X				X					HOLD RUN AFTER TALKING
BL-4250	146824	↓	10:20	↓	[illegible]	X	X				X					with Anisotropic Cancer
BL-4255	146825		10:30													
BL-4260	146826	↓	10:35	↓		X	X				X					
																(X) Samples were added per client's request 12/12/02 A.D.

LAB COMMENTS

Relinquished by:	Date	Time	Received by:
[signature]	12/11	915	[signature]
Relinquished by:	Date 12/11/02	Time 1400	Received by: [signature]
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

AA Project No. A43806

PACCAR 03566

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled:	12/11/02	12/11/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted:	12/24/02	12/24/02	
AA ID No.:	146982	146997	
Client ID No.:	BL-16@30'	BL-19@45'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
Acenaphthene	<0.1	<0.1	0.1
Acenaphthylene	<0.1	<0.1	0.1
Aniline	<0.2	<0.2	0.2
Anthracene	<0.1	<0.1	0.1
Azobenzene	<0.1	<0.1	0.1
Benzidine	<0.4	<0.4	0.4
Benzo(a)anthracene	<0.1	<0.1	0.1
Benzo(a)pyrene	<0.1	<0.1	0.1
Benzo(b)fluoranthene	<0.1	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	<0.1	0.1
Benzo(k)fluoranthene	<0.1	<0.1	0.1
Benzoic acid	<1	<1	1
Benzyl Alcohol	<0.1	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	<0.1	0.1
Butyl benzyl phthalate	<0.5	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	<0.2	0.2
4-Chloroaniline	<0.4	<0.4	0.4
2-Chloronaphthalene	<0.1	<0.1	0.1
2-Chlorophenol	<0.1	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	<0.1	0.1
Chrysene	<0.1	<0.1	0.1
Di-n-butyl phthalate	<2	<2	2
Di-n-octyl phthalate	<0.1	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	<0.1	0.1
Dibenzofuran	<0.1	<0.1	0.1
1,2-Dichlorobenzene	<0.1	<0.1	0.1
1,3-Dichlorobenzene	<0.1	<0.1	0.1
1,4-Dichlorobenzene	<0.1	<0.1	0.1
3,3'-Dichlorobenzidine	<0.4	<0.4	0.4

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled:	12/11/02	12/11/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted:	12/24/02	12/24/02	
AA ID No.:	146982	146997	
Client ID No.:	BL-16@30'	BL-19@45'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
2,4-Dichlorophenol	<0.1	<0.1	0.1
Diethylphthalate	<0.8	<0.8	0.8
2,4-Dimethylphenol	<0.1	<0.1	0.1
Dimethylphthalate	<0.2	<0.2	0.2
2,4-Dinitrophenol	<0.4	<0.4	0.4
2,4-Dinitrotoluene	<0.1	<0.1	0.1
2,6-Dinitrotoluene	<0.1	<0.1	0.1
Fluoranthene	<0.1	<0.1	0.1
Fluorene	<0.1	<0.1	0.1
Hexachlorobenzene	<0.1	<0.1	0.1
Hexachlorobutadiene	<0.1	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	<0.1	0.1
Hexachloroethane	<0.1	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	<0.4	0.4
Isophorone	<0.1	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	<0.2	0.2
2-Methylnaphthalene	<0.1	<0.1	0.1
2-Methylphenol	<0.2	<0.2	0.2
4-Methylphenol	<0.2	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	<0.1	0.1
N-Nitrosodimethylamine	<0.1	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	<0.1	0.1
Naphthalene	<0.1	<0.1	0.1
2-Nitroaniline	<0.1	<0.1	0.1
3-Nitroaniline	<0.4	<0.4	0.4
4-Nitroaniline	<0.2	<0.2	0.2
Nitrobenzene	<0.1	<0.1	0.1
2-Nitrophenol	<0.2	<0.2	0.2
4-Nitrophenol	<0.2	<0.2	0.2
Pentachlorophenol	<0.1	<0.1	0.1
Phenanthrene	<0.1	<0.1	0.1
Phenol	<0.1	<0.1	0.1
Pyrene	<0.1	<0.1	0.1

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8270

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled:	12/11/02	12/11/02	
Date Analyzed:	01/02/03	01/02/03	
Date Extracted:	12/24/02	12/24/02	
AA ID No.:	146982	146997	
Client ID No.:	BL-16@30'	BL-19@45'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
1,2,4-Trichlorobenzene	<0.1	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	<0.2	0.2

MRL: Method Reporting Limit J: Estimated Value

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Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: 418.1 (TRPH)

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: mg/Kg

AA I.D. No.	Client I.D. No.	Date Extracted	Date Sampled	Date Analyzed	DF	Results	MRL
146977	BL-16@5'	12/24/02	12/11/02	12/24/02	1.0	<5	5

MRL: Method Reporting Limit J: Estimated Value DF: Dilution Factor

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: CAM Metals

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: mg/Kg

Date Sampled:	12/11/02	12/11/02
Date Analyzed	01/13/03	01/13/03
AA ID No.	146976	146989
Client ID No	BL 14@0.5'	BL-19@0.5'
Dilution Factor:	1.0	1.0

Compounds			MRL
Antimony	<10	<10	10
Arsenic	2.8	2.1	0.5
Barium	91	110	10
Beryllium	<1	<1	1
Cadmium	<1	<1	1
Chromium	30	16	3
Cobalt	12	10	3
Copper	21	16	3
Lead	5.6	3.1	3
Mercury	0.081	<0.05	0.05
Molybdenum	<5	<5	5
Nickel	14	9.1	3
Selenium	<0.5	<0.5	0.5
Silver	<1	<1	1
Thallium	<5	<5	5
Vanadium	42	33	10
Zinc	63	39	3

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled	12/11/02
Date Analyzed:	12/20/02
AA ID No..	147001
Client ID No	BL 19
Dilution Factor:	20.0

Compounds:		MRL
Acetone	<200	1
Benzene	<10	0.5
Bromobenzene	<10	0.5
Bromochloromethane	<10	0.5
Bromodichloromethane	<10	0.5
Bromoform	<10	0.5
Bromomethane	<10	0.5
2-Butanone	<200	10
Butylbenzene	<10	0.5
Carbon disulfide	<10	0.5
Carbon tetrachloride	<10	0.5
Chlorobenzene	<10	0.5
Chloroethane	<10	0.5
Chloroform	10	0.5
Chloromethane	<10	0.5
2-Chlorotoluene	<10	0.5
4-Chlorotoluene	<10	0.5
1,2-Dibromo-3-chloropropan	<20	1
Dibromochloromethane	<10	0.5
1,2-Dibromoethane	<10	0.5
Dibromomethane	<10	0.5
1,2-Dichlorobenzene	<10	0.5
1,3-Dichlorobenzene	<10	0.5
1,4-Dichlorobenzene	<10	0.5
Dichlorodifluoromethane	<10	0.5
1,1-Dichloroethane	<10	0.5
1,2-Dichloroethane	<10	0.5
1,2-Dichloroethene (cis)	65	0.5
1,2-Dichloroethene (trans)	<10	0.5
1,1-Dichloroethene	<10	0.5
1,2-Dichloropropane	<10	0.5
1,3-Dichloropropane	<10	0.5
2,2-Dichloropropane	<10	0.5
1,3-Dichloropropene-(cis)	<10	0.5

Allen Aminian
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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled	12/11/02
Date Analyzed:	12/20/02
AA ID No.:	147001
Client ID No:	BL 19
Dilution Factor	20.0

Compounds		MRL
1,2-Dichloropropene-(trans)	<10	0.5
1,1-Dichloropropene	<10	0.5
Ethylbenzene	<10	0.5
Hexachlorobutadiene	<20	1
2-Hexanone	<200	10
Isopropylbenzene	<10	0.5
Isopropyltoluene	<20	1
Methyl-tert-Butyl Ether	<40	2
4-Methyl-2-pentanone	<200	10
Methylene chloride	<100	5
Naphthalene	<40	2
Propylbenzene	<10	0.5
Styrene	<10	0.5
1,1,1,2-Tetrachloroethane	<10	0.5
1,1,2,2-Tetrachloroethane	<10	0.5
Tetrachloroethene	2000	0.5
Toluene	<10	0.5
1,2,3-Trichlorobenzene	<10	0.5
1,2,4-Trichlorobenzene	<10	0.5
1,1,1-Trichloroethane	<10	0.5
1,1,2-Trichloroethane	<10	0.5
Trichloroethene	2200	0.5
Trichlorofluoromethane	<10	0.5
1,2,3-Trichloropropane	<10	0.5
1,2,4-Trimethylbenzene	<10	0.5
1,3,5-Trimethylbenzene	<10	0.5
Vinyl chloride	<10	0.5
m,p-Xylenes	<20	1
o-Xylene	<10	0.5
sec-Butylbenzene	<10	0.5
tert-Butylbenzene	<10	0.5

Allen Aminian
Project Manager

American Analytics • 9765 Eton Avenue, Chatsworth California 91311
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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled.	12/11/02
Date Analyzed.	12/20/02
AA ID No..	147001
Client ID No:	BL 19
Dilution Factor	20.0

Compounds:	MRL

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/11/02	
Date Analyzed	12/27/02	
Date Extracted:	12/24/02	
AA ID No	146982	
Client ID No.:	BL-16@30'	
Dilution Factor:	1.0	MRL
Compounds		
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed.	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.:	146976	146977	146978	146980	
Client ID No.:	BL-16@0.5'	BL-16@5'	BL-16@10	BL-16@20'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds.					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	5.1	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.	146976	146977	146978	146980	
Client ID No..	BL-16@0.5'	BL-16@5'	BL-16@10'	BL-16@20'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methylen Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	69	34	24	21	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	34	18	34	29	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled.	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.:	146983	146984	146986	146989	
Client ID No.:	BL-16@30'	BL-16@40'	BL-16@50'	BL-19@0.5'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	6.1	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	20	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.:	146982	146984	146986	146988	
Client ID No.:	BL-16@30'	BL-16@40'	BL-16@50'	BL 19@0.5'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
1,3 Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	10	7.4	320	270	5
Toluene	<2	<2	<2	<2	2
1,2,3 Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1 Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	8.6	<5	470	38	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4 Trimethylbenzene	<5	<5	<5	<5	5
1,3,5 Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.:	146990	146992	146994	146995	
Client ID No.:	BL-19@5'	BL-19@15'	BL-19@25'	BL-19@35'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	11	12	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	7.1	43	24	5
1,2 Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	12/20/02	12/20/02	
AA ID No.:	146990	146992	146994	146995	
Client ID No.:	BL-19@5'	BL-19@15'	BL-19@25'	BL-19@35'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
1,3-Dichloropropene (trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert Butyl Ether	<5	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2 Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	24	86	360	540	5
Toluene	<2	<2	<2	<2	2
1,2,3 Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1 Trichloroethane	<5	<5	<5	<5	5
1,1,2 Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	14	48	200	310	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4 Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec Butylbenzene	<5	<5	<5	<5	5
tert Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/kg

Date Sampled:	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	
AA ID No.:	146997	146999	
Client ID No.:	BL-19@45'	BL-19@55'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
Acetone	<50	<50	50
Benzene	<2	<2	2
Bromobenzene	<5	<5	5
Bromochloromethane	<5	<5	5
Bromodichloromethane	<5	<5	5
Bromoform	<5	<5	5
Bromomethane	<5	<5	5
2 Butanone	<50	<50	50
Butylbenzene	<5	<5	5
Carbon disulfide	<5	<5	5
Carbon tetrachloride	<5	<5	5
Chlorobenzene	<5	<5	5
Chloroethane	<5	<5	5
Chloroform	19	21	5
Chloromethane	<5	<5	5
2-Chlorotoluene	<5	<5	5
4 Chlorotoluene	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	10
Dibromochloromethane	<5	<5	5
1,2-Dibromoethane	<5	<5	5
Dibromomethane	<5	<5	5
1,2 Dichlorobenzene	<5	<5	5
1,3-Dichlorobenzene	<5	<5	5
1,4-Dichlorobenzene	<5	<5	5
Dichlorodifluoromethane	<5	<5	5
1,1-Dichloroethane	<5	<5	5
1,2 Dichloroethane	<5	<5	5
1,2 Dichloroethene (cis)	110	130	5
1,2 Dichloroethene (trans)	<5	<5	5
1,1-Dichloroethene	<5	<5	5
1,2-Dichloropropane	<5	<5	5
1,3-Dichloropropane	<5	<5	5
2,2-Dichloropropane	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/11/02	12/11/02	
Date Analyzed	12/20/02	12/20/02	
AA ID No.	146897	146899	
Client ID No:	BL-19@45'	BL-19@55'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
1,3 Dichloropropene (trans)	<5	<5	5
1,1-Dichloropropene	<5	<5	5
Ethylbenzene	<2	<2	2
Hexachlorobutadiene	<10	<10	10
2 Hexanone	<50	<50	50
Isopropylbenzene	<5	<5	5
Isopropyltoluene	<10	<10	10
Methyl ten Butyl Ether	<5	<5	5
4 Methyl-2 pentanone	<50	<50	50
Methylene chloride	<50	<50	50
Naphthalene	<10	<10	10
Propylbenzene	<5	<5	5
Styrene	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	5
Tetrachloroethene	410	820	5
Toluene	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	5
1,1,1-Trichloroethane	<5	<5	5
1,1,2-Trichloroethane	8.3	<5	5
Trichloroethene	520	890	5
Trichlorofluoromethane	<5	<5	5
1,2,3 Trichloropropane	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	5
Vinyl chloride	<5	<5	5
m,p Xylenes	<2	<2	2
o Xylene	<2	<2	2
sec Butylbenzene	<5	<5	5
ten Butylbenzene	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43897
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/11/02	12/11/02	
Date Analyzed:	12/20/02	12/20/02	
AA ID No.:	146897	146899	
Client ID No	BL-19@45'	BL-19@55'	
Dilution Factor:	1.0	1.0	MRL
Compounds			

MRL Method Reporting Limit J Estimated Value

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2 Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4 Chlorotoluene	<5	5
1,2-Dibromo 3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3 Dichlorobenzene	<5	5
1,4 Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(cis)	<5	5
1,2 Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2 Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2 Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1 Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl ten Butyl Ether	<5	5
4-Methyl 2 pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2 Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1 Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A43897
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
TRPH	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butyl phthalate	<2	2
Di-n-octyl phthalate	<0.1	0.1

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
Dibenzo[a,h]anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3'-Dichlorobenzidine	<0.4	0.4
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno[1,2,3-cd]pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1

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Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	18	90	65 - 135
Bromodichloromethane	19	95	42 - 172
Bromoform	21	105	22 - 135
Bromomethane	15	75	1 - 144
Carbon tetrachloride	20	100	43 - 143
Chlorobenzene	21	105	24 - 191
Chloroethane	16	80	46 - 137
Chloroform	18	90	49 - 133
Chloromethane	13	65	1 - 193
Dibromochloromethane	19	95	26 - 162
1,1-Dichloroethane	17	85	47 - 132
1,2-Dichloroethane	18	90	51 - 147
1,2-Dichloroethene-(cis)	19	95	38 - 155
1,2-Dichloroethene-(trans)	18	90	38 - 155
1,1-Dichloroethene	18	90	28 - 167
1,2-Dichloropropane	18	90	44 - 156
1,3-Dichloropropene (cis)	18	90	14 - 186
1,3-Dichloropropene-(trans)	18	90	22 - 178
Ethylbenzene	17	85	77 - 173
Methylene chloride	18	90	25 - 162
1,1,2,2-Tetrachloroethane	17	85	13 - 159
Tetrachloroethene	21	105	39 - 136

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	18	90	66 - 134
1,1,1-Trichloroethane	20	100	41 - 138
1,1,2-Trichloroethane	16	80	22 - 178
Trichloroethene	20	100	35 - 146
Vinyl chloride	14	70	28 - 163
o-Xylene	21	105	73 - 127

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999.06
AA Project No. A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	23.1	116	65 - 135
Bromodichloromethane	22.1	111	42 - 172
Bromoform	22.6	113	22 - 135
Bromomethane	18.3	92	1 - 144
Carbon tetrachloride	20.7	104	43 - 143
Chlorobenzene	23.2	116	24 - 191
Chloroethane	27.6	138	46 - 137
Chloroform	20.6	103	49 - 133
Chloromethane	25.2	126	1 - 193
Dibromochloromethane	18.9	94	26 - 162
1,1-Dichloroethane	23.2	116	47 - 132
1,2-Dichloroethane	21.5	108	51 - 147
1,2-Dichloroethene (cis)	24.0	120	38 - 155
1,2-Dichloroethene (trans)	24.0	120	38 - 155
1,1-Dichloroethene	21.0	105	28 - 167
1,2-Dichloropropane	24.0	120	44 - 156
1,3-Dichloropropene-(cis)	23.7	119	14 - 186
1,3-Dichloropropene-(trans)	23.6	118	22 - 178
Ethylbenzene	22.1	111	77 - 123
Methylene chloride	20.4	102	25 - 162
1,1,2,2-Tetrachloroethane	19.9	100	13 - 159
Tetrachloroethene	18.7	94	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999.06
AA Project No. A43891
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	21.0	105	66 - 134
1,1,1-Trichloroethane	20.7	104	41 - 138
1,1,2-Trichloroethane	21.5	108	22 - 178
Trichloroethene	23.5	118	35 - 146
Vinyl chloride	41.7	209	28 - 163
o-Xylene	22.3	112	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Laboratory Control Standard
Concentration: 40 mg/Kg

Project No.: 6999.06
AA Project No. A43897
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
TRPH	40	100	30 - 170

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999.06
AA Project No. A43897
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	499	100	70 - 130
Aroclor 1260	597	119	70 - 130

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LABORATORY QA/QC REPORT

Client: Han Crowser Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No: 6999.06
AA Project No: A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	47.0	94	47 - 145
Acenaphthylene	45.0	90	33 - 145
Anthracene	45.6	91	27 - 133
Benzo(b)fluoranthene	46.8	94	24 - 159
Bis(2-chloroethyl)ether	45.6	91	12 - 158
Butylbenzylphthalate	49.5	99	2 - 152
2-Chloronaphthalene	40.4	81	60 - 118
4-Chlorophenyl phenyl ether	44.3	89	25 - 158
1,2-Dichlorobenzene	37.4	75	32 - 129
1,3-Dichlorobenzene	38.3	77	2 - 172
1,4-Dichlorobenzene	38.3	77	20 - 124
Diethylphthalate	56.6	113	2 - 114
Dimethylphthalate	46.1	92	2 - 112
Fluoranthene	45.2	90	26 - 137
Fluorene	47.6	95	59 - 121
Hexachlorobenzene	49.2	98	2 - 152
Hexachlorobutadiene	38.4	77	24 - 116
Hexachloroethane	42.0	84	40 - 113
Isophorone	43.5	87	21 - 196
Naphthalene	45.6	91	21 - 133
Nitrobenzene	47.8	96	35 - 180
2-Nitrophenol	70.1	140	29 - 182

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LABORATORY QA/QC REPORT

Client: Han Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No: 6999.06
AA Project No: A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	51.0	102	14 - 176
Phenol	47.7	95	5 - 112
1,2,4-Trichlorobenzene	38.2	76	44 - 142
2,4,6-Trichlorophenol	55.4	111	37 - 144

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LABORATORY QA/QC REPORT

Client: Han Crowser Inc
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Laboratory Control Standard
Concentration: 50 mg/Kg

Project No.: 6999.06
AA Project No: A43897
Date Analyzed: 01/13/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
Antimony	47.1	94	75 - 125
Arsenic	49.3	99	75 - 125
Barium	46.0	92	75 - 125
Beryllium	50.2	100	75 - 125
Cadmium	48.0	96	75 - 125
Chromium	48.2	96	75 - 125
Cobalt	47.9	96	75 - 125
Copper	48.4	97	75 - 125
Lead	49.5	99	75 - 125
Mercury	48.4	97	75 - 125
Molybdenum	48.0	96	75 - 125
Nickel	47.2	94	75 - 125
Selenium	42.5	85	75 - 125
Silver	38.0	76	75 - 125
Thallium	48.0	96	75 - 125
Vanadium	48.5	97	75 - 125
Zinc	48.6	97	75 - 125

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LABORATORY QA/QC REPORT

Client: Han Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 146976
Project No.: 6999.06
AA Project No: A43897
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Bromoform	41.1	103	44.0	110	7	45 - 169
Chlorobenzene	40.9	102	41.1	103	1	37 - 160
Chloroform	37.9	95	39.1	98	3	51 - 138
1,1-Dichloroethane	37.8	95	38.8	97	2	54 - 155
1,1-Dichloroethene	36.6	92	38.6	97	5	7 - 234
Isopropyltoluene	43.8	110	43.8	110	0	50 - 150
Propylbenzene	35.0	88	36.2	91	3	50 - 150
Tetrachloroethene	40.3	101	42.4	106	5	64 - 148
Toluene	35.9	90	36.7	92	2	47 - 150
1,3,5 Trimethylbenzene	44.6	112	44.5	111	1	50 - 150
Vinylchloride	28.8	72	29.0	73	1	7 - 251

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: 418.1 (TRPH)
Sample ID: Matrix Spike
Concentration: 40 mg/Kg

AA ID No: 146977
Project No: 6999.06
AA Project No. A43897
Date Analyzed: 12/24/02
Date Reported: 01/14/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup Result (mg/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
TRPH	39	98	35	88	11	71 - 129

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No: 146982
Project No.: 6999.06
AA Project No: A43897
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Aroclor 1016	552	110	573	105	5	50 - 150
Aroclor 1260	597	119	593	119	0	50 - 150

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Matrix Spike
Concentration: 1 mg/Kg

AA ID No: 146997
Project No: 6999.06
AA Project No. A43897
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup Result (mg/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept Rec Range (%)
Acenaphthene	0.92	92	0.88	88	4	47 - 145
4-Chloro-3-methylphenol	1.10	110	1.14	114	4	22 - 147
2-Chlorophenol	1.03	103	1.00	100	3	23 - 134
1,4-Dichlorobenzene	0.82	82	0.83	83	1	20 - 124
2,4-Dinitrotoluene	0.99	99	0.97	97	2	39 - 139
N-Nitrosodi-n-propylamine	1.07	107	1.02	102	5	5 - 230
4-Nitrophenol	1.40	140	1.36	136	3	5 - 132
Pentachlorophenol	1.12	112	1.16	116	4	14 - 176
Phenol	1.02	102	1.08	108	6	5 - 112
Pyrene	0.94	94	0.96	96	2	26 - 115
1,2,4-Trichlorobenzene	0.77	77	0.83	83	14	44 - 142

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201364
Tel 818-998-5547 FAX 818-998-7258
DATE 12-11-02 PAGE 1 OF 2

AA Client: HART CROWSER INC
Project Manager: ADC
Project Name: PACCAR TORRANCE
Job Name: PACCAR TORRANCE
PO# Address: 12106 S. 13th STREET
Phone
P.O. No
Client Project No: 6999.06
Samplers (Signature): Roger Dirkhuise
Project Manager Signature
ANALYSIS REQUIRED (Test Name): VOC 8260B; SVOC 8270; 8081 PCB; EPA 8015; EPA 8082
Client Comment Special Test Requirements/Comments: Turnaround time Detection Limits Data Package ...

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	VOC 8260B	SVOC 8270	8081 PCB	EPA 8015	EPA 8082	Comments
BA-16-025	146976	12-11-02	8:00	Soil	3	X	X				Composite Analysis
BA-16-025	146977		8:10		1			X			
BA-16-026	146978		8:15		1			X			
BA-16-026	146979		8:15		1			X			Remove before QAQC
BA-16-026	146980		8:30		1		X				
BA-16-025	146981		8:40		1			X			
BA-16-026	146982		8:45		1	X	X				X: Sample never added Per client request 12/12/02 A.A.
BA-16-025	146983		8:50		1		X				
BA-16-026	146984		8:55		1		X				
BA-16-025	146985		9:00		1			X			
BA-16-026	146986		9:05		1		X				X: Sample analysis not added Per client request 12/12/02 A.A.
BA-16-026	146987		9:10		1						
BA-16-025	146988		9:15		1						
BA-16-026	146989		10:00		1			X	X		
BA-15-025	146990		8:35		1			X	X		
BA-15-010.0	146991		10:40		1			X			

Laboratory Comments:

Relinquished by: Roger Dirkhuise Date 12-11-02 Time 12:30
Received by: [illegible] Date 12/11/02 Time 16:00
Relinquished by: [illegible] Date 12/12/02 Time 11:00
Received by: [illegible] Date 12/12/02 Time 11:00
Relinquished by: Date Time
Received by: Date Time

AA Project No: A43897

PACCAR 03576

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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Tel 818-998-5547 FAX 818-998-7258

№ 201365

DATE 12-11-02

PAGE 2 of 2

AA Client: HART CROWSER

Project Manager: ABC

Project Name: FALLAR TERRACE

Job Name: [illegible]

Address: [illegible] W [illegible] ST

Phone: 805-425-6360

P.O. No.:

Client's Project No.: 6999 [illegible]

Sampler's Name (Print): [illegible]

Sampler's Signature: [illegible]

Project Manager's Signature:

ANALYSIS REQUIRED (Test Name)

Client's ID	AA ID#	Date	Time	Sample Type	Number of Containers	VOC 8260	8270C	4-8-1	6000/7000	Boil 8082	EPA 5075					Client's Comment / Special Test Requirements / Comments / Turnaround Time / Detection Limits / Data Package ...
BL-19015	146992	12-11-02	10:41	Soil	[illegible]	X					X					HOLD TRIP WITH
BL-19020	146993		10:48													ALTERNATE CALLENDER
BL-19025	146994		10:51			X					X					before running
BL-19035	146995		10:55			X					X					
BL-19040	146996		[illegible]													
BL-19045	146997		11:06			X	X				X					X. Sample was added
BL-19050	146998		11:[illegible]													per client's request
BL-19055	146999		11:[illegible]			X					X					12/17/02 A.A
BL-19060	147000		11:[illegible]													
BL-19	147001		9:35	WATER	[illegible]	X										
																X Sample was added per
																client's request 12/17/02
																A.A

LAB COMMENTS

Relinquished by	Date	Time	Received by
[illegible]	12/9/02	1800	[illegible]
	12/12/02	14:00	[illegible]

AA Project No. A42897

PACCAR 03577

LABORATORY ANALYSIS RESULTS

Client:	Hart Crowser, Inc	AA Project No.	A43898
Project No.:	6999 06	Date Received:	12/12/02
Project Name:	Paccar Torrance	Date Reported:	01/14/03
Sample Matrix:	Soil	Units:	mg/Kg
Method:	EPA 8270		

Date Sampled:	12/12/02	
Date Analyzed:	01/02/03	
Date Extracted:	12/26/03	
AA ID No:	147011	
Client ID No:	BL-20@35'	
Dilution Factor:	1.0	MRL
Compounds		
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic Acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.3	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butylbenzylphthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butylphthalate	<2	2
Di-n-octylphthalate	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3'-Dichlorobenzidine	<0.4	0.4

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LABORATORY ANALYSIS RESULTS

Client:	Hart Crowser, Inc	AA Project No	A43898
Project No.:	6999 06	Date Received	12/12/02
Project Name:	Paccar Torrance	Date Reported:	01/14/03
Sample Matrix:	Soil	Units	mg/Kg
Method:	EPA 8270		

Date Sampled:	12/12/02	
Date Analyzed:	01/02/03	
Date Extracted:	12/26/03	
AA ID No.:	147011	
Client ID No.:	BL-20@35'	
Dilution Factor:	1.0	MRL
Compounds		
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1

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LABORATORY ANALYSIS RESULTS

Client:	Hart Crowser, Inc	AA Project No.:	A43898
Project No.:	6999 06	Date Received:	12/12/02
Project Name:	Paccar Torrance	Date Reported	01/14/03
Sample Matrix:	Soil	Units.	mg/Kg
Method	EPA 8270		

Date Sampled:	12/12/02	
Date Analyzed.	01/02/03	
Date Extracted.	12/26/03	
AA ID No.	147011	
Client ID No.:	BL-20@35'	
Dilution Factor:	1.0	MRL
Compounds		
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client:	Hart Crowser, Inc.	AA Project No.:	A43898
Project No.:	6999 06	Date Received	12/12/02
Project Name:	Paccar Torrance	Date Reported.	01/14/03
Sample Matrix.	Soil	Units.	mg/Kg
Method:	CAM Metals		

Date Sampled	12/12/02	
Date Analyzed:	01/13/03	
AA ID No.	147004	
Client ID No	BL-20@0.5'	
Dilution Factor	1.0	MRL
Compounds:		
Antimony	<10	10
Arsenic	3.0	0.5
Barium	130	10
Beryllium	1.1	1
Cadmium	<1	1
Chromium	24	3
Cobalt	8.9	3
Copper	19	3
Lead	5.4	3
Mercury	<0.05	0.05
Molybdenum	<5	5
Nickel	13	3
Selenium	0.78	0.5
Silver	1.3	1
Thallium	<5	5
Vanadium	50	10
Zinc	52	3

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled	12/12/02	12/12/02	
Date Analyzed	12/20/02	12/20/02	
AA ID No.	147002	147003	
Client ID No.:	BL-20-1	BL-20	
Dilution Factor	50.0	100.0	MRL
Compounds:			
Acetone	<500	<1000	10
Benzene	<25	<50	0.5
Bromobenzene	<25	<50	0.5
Bromochloromethane	<25	<50	0.5
Bromodichloromethane	<25	<50	0.5
Bromoform	<25	<50	0.5
Bromomethane	<25	<50	0.5
2-Butanone	<500	<1000	10
Butylbenzene	<25	<50	0.5
Carbon disulfide	<25	<50	0.5
Carbon tetrachloride	<25	<50	0.5
Chlorobenzene	<25	<50	0.5
Chloroethane	<25	<50	0.5
Chloroform	52	<50	0.5
Chloromethane	<25	<50	0.5
2-Chlorotoluene	<25	<50	0.5
4-Chlorotoluene	<25	<50	0.5
1,2 Dibromo-3-chloropropan	<50	<100	1
Dibromochloromethane	<25	<50	0.5
1,2-Dibromoethane	<25	<50	0.5
Dibromomethane	<25	<50	0.5
1,2 Dichlorobenzene	<25	<50	0.5
1,3 Dichlorobenzene	<25	<50	0.5
1,4 Dichlorobenzene	<25	<50	0.5
Dichlorodifluoromethane	<25	<50	0.5
1,1-Dichloroethane	<25	<50	0.5
1,2-Dichloroethane	<25	<50	0.5
1,2-Dichloroethene-(cis)	760	650	0.5
1,2 Dichloroethene-(trans)	44	61	0.5
1,1 Dichloroethene	26	<50	0.5
1,2-Dichloropropane	<25	<50	0.5
1,3 Dichloropropane	<25	<50	0.5
2,2 Dichloropropane	<25	<50	0.5
1,3 Dichloropropene-(cis)	<25	<50	0.5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled:	12/12/02	12/12/02
Date Analyzed:	12/20/02	12/20/02
AA ID No.:	147002	147003
Client ID No.	BL-20-1	BL-20
Dilution Factor:	50.0	100.0
Compounds:		
1,3-Dichloropropene-(trans)	<25	<50
1,1-Dichloropropene	<25	<50
Ethylbenzene	<25	<50
Hexachlorobutadiene	<50	<100
2-Hexanone	<500	<1000
Isopropylbenzene	<25	<50
Isopropyltoluene	<50	<100
Methyl tert-Butyl Ether	<100	<200
4 Methyl-2-pentanone	<500	<1000
Methylene chloride	<250	<500
Naphthalene	<100	<200
Propylbenzene	<25	<50
Styrene	<25	<50
1,1,1,2-Tetrachloroethane	<25	<50
1,1,2,2-Tetrachloroethane	<25	<50
Tetrachloroethene	8100	7300
Toluene	<25	<50
1,2,3-Trichlorobenzene	<25	<50
1,2,4-Trichlorobenzene	<25	<50
1,1,1-Trichloroethane	<25	<50
1,1,2-Trichloroethane	<25	<50
Trichloroethene	11000	11000
Trichlorofluoromethane	<25	<50
1,2,3 Trichloropropane	<25	<50
1,2,4-Trimethylbenzene	<25	<50
1,3,5 Trimethylbenzene	<25	<50
Vinyl chloride	<25	<50
m,p-Xylenes	<50	<100
o Xylene	<25	<50
sec Butylbenzene	<25	<50
tert Butylbenzene	<25	<50

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/L

Date Sampled	12/12/02	12/12/02	
Date Analyzed.	12/20/02	12/20/02	
AA ID No.	147002	147003	
Client ID No.:	BL-20 1	BL-20	
Dilution Factor:	50 0	100 0	MRL
Compounds			

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02
Date Analyzed	12/27/02
Date Extracted.	12/26/02
AA ID No.:	147011
Client ID No.:	BL 20@35'
Dilution Factor	1.0
Compounds:	
Aroclor 1016	<100
Aroclor 1221	<100
Aroclor 1232	<100
Aroclor 1242	<100
Aroclor 1248	<100
Aroclor 1254	<100
Aroclor 1260	<100

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed:	12/21/02	12/21/02	12/21/02	12/21/02	
AA ID No.:	147004	147005	147006	147009	
Client ID No.:	BL-20@0.5'	BL-20@5'	BL-20@10'	BL-20@25'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2 Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4 Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1 Dichloroethane	<5	<5	<5	<5	5
1,2 Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	8.2	36	330	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3 Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/21/02	12/21/02	12/21/02	12/21/02	
AA ID No.	147004	147005	147006	147009	
Client ID No.	BL-20@0.5'	BL-20@5'	BL-20@10'	BL-20@25'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3 Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1 Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4 Methyl 2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2 Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	18	<5	<5	46	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2 Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	<5	<5	38	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4 Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec Butylbenzene	<5	<5	<5	<5	5
tert Butylbenzene	<5	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02	12/12/02	12/12/02	
Date Analyzed:	12/21/02	12/21/02	12/21/02	
AA ID No.:	147011	147014	147015	
Client ID No.:	BL-20@35'	BL-20@50'	BL-20@55'	
Dilution Factor:	1.0	1.0	1.0	MRL
Compounds:				
Acetone	<50	<50	<50	50
Benzene	<2	<2	<2	2
Bromobenzene	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	5
Bromoform	<5	<5	<5	5
Bromomethane	<5	<5	<5	5
2 Butanone	<50	<50	<50	50
Butylbenzene	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	5
Chloroethane	<5	<5	<5	5
Chloroform	<5	10	10	5
Chloromethane	<5	<5	<5	5
2 Chlorotoluene	<5	<5	<5	5
4 Chlorotoluene	<5	<5	<5	5
1,2 Dibromo 3-chloropropan	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	5
1,2 Dibromoethane	<5	<5	<5	5
Dibromomethane	<5	<5	<5	5
1,2 Dichlorobenzene	<5	<5	<5	5
1,3 Dichlorobenzene	<5	<5	<5	5
1,4 Dichlorobenzene	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	5
1,2 Dichloroethane	<5	<5	<5	5
1,2 Dichloroethene (cis)	270	1400	1000	5
1,2-Dichloroethene (trans)	<5	<5	<5	5
1,1 Dichloroethene	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/21/02	12/21/02	12/21/02	
AA ID No.	147011	147014	147015	
Client ID No.:	BL-20@35'	BL-20@50	BL-20@55'	
Dilution Factor	1.0	1.0	1.0	MRL
Compounds.				
1,3 Dichloropropene-(trans)	<5	<5	<5	5
1,1 Dichloropropene	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	10
2-Hexanone	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	5
4-Methyl 2-pentanone	<50	<50	<50	50
Methylene chloride	<50	<50	<50	50
Naphthalene	<10	<10	<10	10
Propylbenzene	<5	<5	<5	5
Styrene	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	5
1,1,2,2 Tetrachloroethane	<5	<5	<5	5
Tetrachloroethene	57	290	290	5
Toluene	<2	<2	<2	2
1,2,3 Trichlorobenzene	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	5
Trichloroethene	25	380	420	5
Trichlorofluoromethane	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	5
1,2,4 Trimethylbenzene	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	5
m,p Xylenes	<2	<2	<2	2
o-Xylene	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	5
tert Butylbenzene	<5	<5	<5	5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43898
Date Received: 12/12/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/21/02	12/21/02	12/21/02	
AA ID No.:	147013	147014	147015	
Client ID No.:	BL-20@35'	BL-20@58'	BL-20@55'	
Dilution Factor:	1.0	1.0	1.0	MRL
Compounds				

MRL: Method Reporting Limit J: Estimated Value

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A43898
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5
1,2-Dichloroethene-(cis)	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43898
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene-(trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<0	0
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene-(cis)	<5	5
1,3-Dichloropropene-(trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl 2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5
1,1,2-Trichloroethane	<5	5

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999 06
AA Project No.: A43898
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No: 6999 06
AA Project No: A43898
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	< 100	100
Aroclor 1221	< 100	100
Aroclor 1232	< 100	100
Aroclor 1242	< 100	100
Aroclor 1248	< 100	100
Aroclor 1254	< 100	100
Aroclor 1260	< 100	100

MRL Method Reporting Limit

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LABORATORY QA/QC REPORT

Client: Hart Crowser Inc
Project Name: Paccar Torrance
Method: EPA 8260B-5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No. A43898
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	18.5	93	65 - 135
Bromodichloromethane	17.4	87	42 - 172
Bromoform	16.4	82	22 - 135
Bromomethane	14.0	70	1 - 144
Carbon tetrachloride	17.6	88	43 - 143
Chlorobenzene	18.5	93	24 - 191
Chloroethane	13.5	68	46 - 137
Chloroform	17.1	86	49 - 133
Chloromethane	12.5	63	1 - 193
Dibromochloromethane	18.1	91	26 - 162
1,1-Dichloroethane	15.3	77	47 - 132
1,2-Dichloroethane	16.8	84	51 - 147
1,2-Dichloroethene (cis)	17.7	89	38 - 155
1,2-Dichloroethene (trans)	16.8	84	38 - 155
1,1-Dichloroethene	14.4	72	28 - 167
1,2-Dichloropropane	15.7	79	44 - 156
1,3-Dichloropropene (cis)	18.5	93	14 - 186
1,3-Dichloropropene (trans)	17.4	87	22 - 178
Ethylbenzene	15.0	75	77 - 123
Methylene chloride	17.6	88	25 - 162
1,1,2,2-Tetrachloroethane	16.4	82	13 - 159
Tetrachloroethene	19.3	97	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No: A43898
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	16.7	84	66 - 134
1,1,1-Trichloroethane	16.8	84	41 - 138
1,1,2-Trichloroethane	15.9	80	22 - 178
Trichloroethene	18.9	95	35 - 146
Vinyl chloride	12.8	64	28 - 163
o-Xylene	18.7	94	13 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No: 6999 06
AA Project No: A43898
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	23.1	116	65 - 135
Bromodichloromethane	22.1	111	42 - 172
Bromoform	22.6	113	22 - 135
Bromomethane	18.3	92	1 - 144
Carbon tetrachloride	20.7	104	43 - 143
Chlorobenzene	23.2	116	24 - 191
Chloroethane	27.6	138	46 - 137
Chloroform	20.6	103	49 - 133
Chloromethane	25.2	126	1 - 193
Dibromochloromethane	18.9	94	26 - 162
1,1-Dichloroethane	23.2	116	47 - 132
1,2-Dichloroethane	21.5	108	51 - 147
1,2-Dichloroethene (cis)	24.0	120	38 - 155
1,2-Dichloroethene (trans)	24.0	120	38 - 155
1,1-Dichloroethene	21.0	105	28 - 167
1,2-Dichloropropane	24.0	120	44 - 156
1,3-Dichloropropene (cis)	23.7	119	14 - 186
1,3-Dichloropropene (trans)	23.6	118	22 - 178
Ethylbenzene	22.1	111	77 - 123
Methylene chloride	20.4	102	25 - 162
1,1,2,2-Tetrachloroethane	19.9	100	13 - 159
Tetrachloroethene	18.7	94	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 70 ug/L

Project No.: 6999.06
AA Project No: A43898
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	21.0	105	66 - 134
1,1,1-Trichloroethane	20.7	104	41 - 138
1,1,2-Trichloroethane	21.5	108	22 - 178
Trichloroethene	23.5	118	35 - 146
Vinyl chloride	41.7	209	28 - 163
o-Xylene	22.3	112	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999.06
AA Project No: A43898
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	499	100	70 - 130
Aroclor 1260	597	119	70 - 130

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No: A43898
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	41.6	83	47 - 145
Acenaphthylene	43.6	87	33 - 145
Anthracene	51.3	103	27 - 133
Benzo(b)fluoranthene	48.7	97	24 - 159
Bis(2-chloroethyl)ether	48.0	96	12 - 158
Butyl benzyl phthalate	49.5	99	2 - 152
2-Chloronaphthalene	38.4	77	60 - 118
4-Chlorophenyl phenyl ether	44.5	89	25 - 158
1,2-Dichlorobenzene	39.9	80	32 - 129
1,3-Dichlorobenzene	39.7	79	2 - 172
1,4-Dichlorobenzene	40.2	80	20 - 124
Diethylphthalate	56.3	113	2 - 114
Dimethylphthalate	46.1	92	2 - 112
Fluoranthene	52.0	104	26 - 137
Fluorene	44.3	89	59 - 121
Hexachlorobenzene	54.9	110	2 - 152
Hexachlorobutadiene	37.7	75	24 - 116
Hexachloroethane	40.9	82	40 - 113
Isophorone	47.1	94	21 - 196
Naphthalene	50.1	100	21 - 133
Nitrobenzene	50.4	101	35 - 180
2-Nitrophenol	50.2	100	29 - 182

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999.06
AA Project No: A43898
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	60.1	120	14 - 176
Phenol	52.7	105	5 - 112
1,2,4-Trichlorobenzene	36.8	74	44 - 142
2,4,6-Trichlorophenol	53.1	106	37 - 144

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Laboratory Control Standard
Concentration: 50 mg/Kg

Project No.: 6999 06
AA Project No: A43698
Date Analyzed: 01/13/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
Antimony	47.1	94	75 - 125
Arsenic	49.3	99	75 - 125
Barium	46.0	92	75 - 125
Beryllium	50.2	100	75 - 125
Cadmium	48.0	96	75 - 125
Chromium	48.2	96	75 - 125
Cobalt	47.9	96	75 - 125
Copper	48.4	97	75 - 125
Lead	49.5	99	75 - 125
Mercury	48.4	97	75 - 125
Molybdenum	48.0	96	75 - 125
Nickel	47.2	94	75 - 125
Selenium	42.5	85	75 - 125
Silver	38.0	76	75 - 125
Thallium	48.0	96	75 - 125
Vanadium	48.5	97	75 - 125
Zinc	48.6	97	75 - 125

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147004
Project No: 6999 06
AA Project No: A43692
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Bromoform	36.0	90	38.8	97	7	45 - 169
Chlorobenzene	35.4	89	37.6	94	5	37 - 160
Chloroform	33.6	84	34.6	87	4	51 - 138
1,1-Dichloroethane	28.5	71	28.0	70	1	54 - 155
1,1-Dichloroethene	29.6	74	26.0	70	6	2 - 234
Isopropyltoluene	38.6	97	39.6	99	2	50 - 150
Propylbenzene	35.8	77	35.0	88	13	50 - 150
Tetrachloroethene	38.4	96	37.4	94	2	64 - 148
Toluene	32.2	81	31.8	80	1	47 - 150
1,3,5-Trimethylbenzene	41.4	104	41.6	104	0	50 - 150
Vinyl chloride	28.8	72	24.6	62	15	2 - 251

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No: 147011
Project No: 6999 06
AA Project No: A43896
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept. Rec. Range (%)
Aroclor 1016	552	110	523	105	5	50 - 150
Aroclor 1260	597	119	593	119	0	50 - 150

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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DATE 12-12-02
PAGE 1 OF 2

Tel 818 998 5547 FAX 818 998 7258

AA Client: HART CROWSER
Project Manager: Oil
Project Name: PACCAR INGLEWOOD
Job Name: PACCAR
Address: 1400 W 135TH STREET

Phone
P.O. No
Client Project No
Client P.O. No

Sampler's Name (Print): Bryan M. Schulthess
Sampler's Signature
Project Supervisor's Signature

ANALYSIS REQUIRED (Test Name)

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	Volatile Organics EPA 8260	Semi-Volatile Organics EPA 8270	Pesticides EPA 8081	PCBs EPA 8082	Herbicides EPA 8151	Metals EPA 6010	Metals EPA 7000	Metals EPA 7470	Metals EPA 7471	Metals EPA 7196	Metals EPA 9010	Metals EPA 9012	Metals EPA 9014	Metals EPA 9015	Metals EPA 9016	Metals EPA 9017	Metals EPA 9020	Metals EPA 9023
[illegible]	14-7001	12-12-02	[illegible]	SOIL	1	X																	
[illegible]	14-7002		[illegible]		1	X																	
[illegible]	14-7003		[illegible]	WATER	2		X																
[illegible]	14-7004		[illegible]	SOIL	1		X																
[illegible]	14-7005		[illegible]		1		X																
[illegible]	14-7006		[illegible]		1		X																
[illegible]	14-7007		[illegible]		1		X																
[illegible]	14-7008		[illegible]		1		X																
[illegible]	14-7009		[illegible]		1		X																
[illegible]	14-7010		[illegible]		1		X																
[illegible]	14-7011		[illegible]		1		X																
[illegible]	14-7012		[illegible]		1		X																
[illegible]	14-7013		[illegible]		1		X																
[illegible]	14-7014		[illegible]		1		X																
[illegible]	14-7015		[illegible]		1		X																
[illegible]	14-7016		[illegible]		1		X																
[illegible]	14-7017		[illegible]		1		X																
[illegible]				WATER	3																		

Client Comments, Special Requirements, Requirements/Comments
1a - Turnaround Time
Data Package I

X: Samples were received in good condition
Samples were received in proper containers
Samples were received within H.T.

Relinquished by: [signature] Date 12-12-02 Time 12:50
Received by: [signature] Date 12/12/02 Time 12:50
Relinquished by: [signature] Date 12/12/02 Time 12:50
Received by: [signature] Date 12/12/02 Time 12:50
Relinquished by: Date Time
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

LAB COMMENTS
Analysis taken based Per Discussion Dalphard request 12/12/02 Allen Aminian

AA Project No:

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

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Tel. 818 998-5547 FAX: 818-998-7258

DATE 12-17-07

PAGE 2 OF 2

AA Client: HART CROWSER	Phone:	Sampler's Name (Print): [illegible]	
Project Manager: ABL	P.O. No.:	Sampler's Signature: [illegible]	
Project Name: PACCAR TORRENCE	Client's Project No.: GPCC	Project Manager's Signature:	
Job Name and Address: PACCAR 1206th West 196th street			

ANALYSIS REQUIRED (Test Name): VOC 8260 / 8270C / 6000/1000 / 4130 / 8021 / 4602

Client's Comment Special Test Requirements / Comments

(e.g., Turnaround Time, Detection Limits, Data Package ...)

Client ID	AA ID	Date	Time	Sample Type	Number of Containers	VOC 8260	8270C	6000/1000	4130	8021	4602					Client's Comment
EL-20-1	142018	12-17-07	[illegible]	[illegible]	[illegible]											HOLD
[illegible]	142019	12-17-07														HOLD
[illegible]		12-17-07														HOLD

LAB COMMENTS

Relinquished by	Date	Time	Received by
[illegible]	12-17-07	12:00	Tim [illegible] 12/17/07
	12/17/07	14:00	[illegible]

AA Project No. [illegible]

PACCAR 03585

LABORATORY ANALYSIS RESULTS

Client	Hart Crowser, Inc	AA Project No	A43899
Project No :	6999 06	Date Received:	12/13/02
Project Name:	Paccar Torrance	Date Reported	01/14/03
Sample Matrix:	Soil	Units.	mg/Kg
Method	EPA 8270		

Date Sampled	12/12/02	
Date Analyzed	01/02/03	
Date Extracted	12/26/02	
AA ID No.:	147268	
Client ID No.:	BL 18@35'	
Dilution Factor	1.0	MRL
Compounds		
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2 chloroethyl)ether	<0.1	0.1
Bis(2 chloroisopropyl)ether	<0.1	0.1
Bis(2 ethylhexyl)phthalate	<0.2	0.2
4 Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3 methylphenol	<0.2	0.2
4 Chloroaniline	<0.4	0.4
2 Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4 Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di n-Butyl phthalate	<2	2
Di n-octyl phthalate	<0.1	0.1
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2 Dichlorobenzene	<0.1	0.1
1,3 Dichlorobenzene	<0.1	0.1
1,4 Dichlorobenzene	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	0.4

Allen Aminian
Project Manager

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LABORATORY ANALYSIS RESULTS

Client.	Hart Crowser, Inc	AA Project No.:	A43899
Project No.:	6999 06	Date Received:	12/13/02
Project Name:	Paccar Torrance	Date Reported:	01/14/03
Sample Matrix:	Soil	Units.	mg/Kg
Method	EPA 8270		

Date Sampled	12/12/02	
Date Analyzed.	01/02/03	
Date Extracted:	12/26/02	
AA ID No :	147268	
Client ID No.:	BL 18@35'	
Dilution Factor.	1.0	MRL
Compounds		
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4 Dinitrophenol	<0.4	0.4
2,4 Dinitrotoluene	<0.1	0.1
2,6 Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3 cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl 4 6 dinitrophenol	<0.2	0.2
2 Methylnaphthalene	<0.1	0.1
2 Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2 Nitroaniline	<0.1	0.1
3 Nitroaniline	<0.4	0.4
4 Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1

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LABORATORY ANALYSIS RESULTS

Client:	Hart Crowser, Inc	AA Project No.:	A43899
Project No.:	6999 06	Date Received:	12/13/02
Project Name.	Paccar Torrance	Date Reported:	01/14/03
Sample Matrix.	Soil	Units	mg/Kg
Method:	EPA 8270		

Date Sampled:	12/12/02	
Date Analyzed:	01/02/03	
Date Extracted:	12/26/02	
AA ID No :	147268	
Client ID No	BL-18@35'	
Dilution Factor	1.0	MRL
Compounds:		
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5 Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL: Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client	Hart Crowser, Inc	AA Project No	A43899
Project No..	6999 06	Date Received	12/13/02
Project Name:	Paccar Torrance	Date Reported:	01/14/03
Sample Matrix:	Soil	Units:	mg/Kg
Method	CAM Metals		

Date Sampled	12/12/02	
Date Analyzed:	01/13/03	
AA ID No.:	147261	
Client ID No	BL-18@0.5'	
Dilution Factor:	1.0	MRL
Compounds		
Antimony	<10	10
Arsenic	3.1	0.5
Barium	110	10
Beryllium	1.1	1
Cadmium	<1	1
Chromium	25	3
Cobalt	9.6	3
Copper	17	3
Lead	6.7	3
Mercury	<0.05	0.05
Molybdenum	<5	5
Nickel	13	3
Selenium	<0.5	0.5
Silver	1.1	1
Thallium	<5	5
Vanadium	51	10
Zinc	62	3

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/L

		MRL
Date Sampled	12/12/02	
Date Analyzed:	12/20/02	
AA ID No.:	147274	
Client ID No.:	BL-18	
Dilution Factor:	100.0	
Compounds:		
Acetone	8600	10
Benzene	<50	0.5
Bromobenzene	<50	0.5
Bromochloromethane	<50	0.5
Bromodichloromethane	<50	0.5
Bromoform	<50	0.5
Bromomethane	<50	0.5
2-Butanone	<1000	10
Butylbenzene	<50	0.5
Carbon disulfide	<50	0.5
Carbon tetrachloride	<50	0.5
Chlorobenzene	<50	0.5
Chloroethane	<50	0.5
Chloroform	<50	0.5
Chloromethane	<50	0.5
2-Chlorotoluene	<50	0.5
4-Chlorotoluene	<50	0.5
1,2-Dibromo-3-chloropropan	<100	1
Dibromochloromethane	<50	0.5
1,2-Dibromoethane	<50	0.5
Dibromomethane	<50	0.5
1,2-Dichlorobenzene	<50	0.5
1,3-Dichlorobenzene	<50	0.5
1,4-Dichlorobenzene	<50	0.5
Dichlorodifluoromethane	<50	0.5
1,1-Dichloroethane	<50	0.5
1,2-Dichloroethane	<50	0.5
1,2-Dichloroethene-(cis)	3100	0.5
1,2-Dichloroethene-(trans)	<50	0.5
1,1-Dichloroethene	<50	0.5
1,2-Dichloropropane	<50	0.5
1,3-Dichloropropane	<50	0.5
2,2-Dichloropropane	<50	0.5
1,3-Dichloropropene-(cis)	<50	0.5

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/L

		MRL
Date Sampled	12/12/02	
Date Analyzed:	12/20/02	
AA ID No.:	147274	
Client ID No.:	BL-18	
Dilution Factor:	100.0	
Compounds:		
1,3-Dichloropropene-(trans)	<50	0.
1,1-Dichloropropene	<50	0.
Ethylbenzene	<50	0.
Hexachlorobutadiene	<100	
2-Hexanone	<1000	1
Isopropylbenzene	<50	0.
Isopropyltoluene	<100	
Methyl tert-Butyl Ether	<200	
4-Methyl-2-pentanone	<1000	1
Methylene chloride	<500	
Naphthalene	<200	
Propylbenzene	<50	0.
Styrene	<50	0.
1,1,1,2-Tetrachloroethane	<50	0.
1,1,2,2-Tetrachloroethane	<50	0.
Tetrachloroethene	3400	0.
Toluene	<50	0.
1,2,3-Trichlorobenzene	<50	0.
1,2,4-Trichlorobenzene	<50	0.
1,1,1-Trichloroethane	<50	0.
1,1,2-Trichloroethane	<50	0.
Trichloroethene	4500	0.
Trichlorofluoromethane	<50	0.
1,2,3-Trichloropropane	<50	0.
1,2,4-Trimethylbenzene	<50	0.
1,3,5-Trimethylbenzene	<50	0.
Vinyl chloride	<50	0.
m,p-Xylenes	<100	
o-Xylene	<50	0.
sec-Butylbenzene	<50	0.
tert-Butylbenzene	<50	0.

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/L

		MRL
Date Sampled:	12/12/02	
Date Analyzed:	12/20/02	
AA ID No.:	147274	
Client ID No.:	BL-18	
Dilution Factor	100.0	
Compounds		

MRL Method Reporting Limit J. Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8082 (PCBs)

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

		MRL
Date Sampled	12/12/02	
Date Analyzed	12/27/02	
Date Extracted:	12/26/02	
AA ID No.	147268	
Client ID No	BL-18@35'	
Dilution Factor	1.0	
Compounds		
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL Method Reporting Limit J Estimated Value

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LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed:	12/23/02	12/23/02	12/23/02	12/23/02	
AA ID No.	147261	147262	147264	147266	
Client ID No.	BL-18@0.5'	BL-18@5'	BL-18@15'	BL-18@25'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropane	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	<5	<5	<5	66	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/23/02	12/23/02	12/23/02	12/23/02	
AA ID No.	147261	147262	147264	147266	
Client ID No.	BL-18@0.5'	BL-18@5'	BL-18@15'	BL-18@25'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	28	<5	<5	10	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	<5	<5	25	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/23/02	12/23/02	12/23/02	12/23/02	
AA ID No.:	147268	147270	147272	147275	
Client ID No.	BL-18@35'	BL-18@45'	BL-18@55'	BL-15@0.5'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds:					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene-(cis)	180	<5	50	<5	5
1,2-Dichloroethene-(trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed	12/23/02	12/23/02	12/23/02	12/23/02	
AA ID No.	147268	147270	147272	147275	
Client ID No.	BL-18@35'	BL-18@45'	BL-18@55'	BL-15@0.5'	
Dilution Factor	1.0	1.0	1.0	1.0	MRL
Compounds					
1,3-Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1-Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl-tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	21	<5	13	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	<5	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	53	<5	29	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p-Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed:	12/23/02	12/21/02	12/21/02	12/21/02	
AA ID No	147276	147278	147280	147282	
Client ID No:	BL-15@5'	BL-15@15'	BL-15@25'	BL-15@35	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds					
Acetone	<50	<50	<50	<50	50
Benzene	<2	<2	<2	<2	2
Bromobenzene	<5	<5	<5	<5	5
Bromochloromethane	<5	<5	<5	<5	5
Bromodichloromethane	<5	<5	<5	<5	5
Bromoform	<5	<5	<5	<5	5
Bromomethane	<5	<5	<5	<5	5
2-Butanone	<50	<50	<50	<50	50
Butylbenzene	<5	<5	<5	<5	5
Carbon disulfide	<5	<5	<5	<5	5
Carbon tetrachloride	<5	<5	<5	<5	5
Chlorobenzene	<5	<5	<5	<5	5
Chloroethane	<5	<5	<5	<5	5
Chloroform	<5	<5	<5	<5	5
Chloromethane	<5	<5	<5	<5	5
2-Chlorotoluene	<5	<5	<5	<5	5
4-Chlorotoluene	<5	<5	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	<10	<10	10
Dibromochloromethane	<5	<5	<5	<5	5
1,2-Dibromoethane	<5	<5	<5	<5	5
Dibromomethane	<5	<5	<5	<5	5
1,2-Dichlorobenzene	<5	<5	<5	<5	5
1,3-Dichlorobenzene	<5	<5	<5	<5	5
1,4-Dichlorobenzene	<5	<5	<5	<5	5
Dichlorodifluoromethane	<5	<5	<5	<5	5
1,1-Dichloroethane	<5	<5	7.8	6.3	5
1,2-Dichloroethane	<5	<5	<5	<5	5
1,2-Dichloroethene (cis)	<5	<5	<5	<5	5
1,2-Dichloroethene (trans)	<5	<5	<5	<5	5
1,1-Dichloroethene	<5	<5	<5	<5	5
1,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropane	<5	<5	<5	<5	5
2,2-Dichloropropane	<5	<5	<5	<5	5
1,3-Dichloropropene-(cis)	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	12/12/02	12/12/02	
Date Analyzed:	12/23/02	12/21/02	12/21/02	12/21/02	
AA ID No:	147276	147278	147280	147282	
Client ID No.:	BL-15@5'	BL-15@15'	BL-15@25'	BL-15@35'	
Dilution Factor:	1.0	1.0	1.0	1.0	MRL
Compounds:					
1,3 Dichloropropene-(trans)	<5	<5	<5	<5	5
1,1 Dichloropropene	<5	<5	<5	<5	5
Ethylbenzene	<2	<2	<2	<2	2
Hexachlorobutadiene	<10	<10	<10	<10	10
2-Hexanone	<50	<50	<50	<50	50
Isopropylbenzene	<5	<5	<5	<5	5
Isopropyltoluene	<10	<10	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	<5	<5	5
4-Methyl-2-pentanone	<50	<50	<50	<50	50
Methylene chloride	<50	<50	<50	<50	50
Naphthalene	<10	<10	<10	<10	10
Propylbenzene	<5	<5	<5	<5	5
Styrene	<5	<5	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	<5	<5	5
Tetrachloroethene	<5	<5	<5	<5	5
Toluene	<2	<2	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	<5	<5	5
1,1,1-Trichloroethane	<5	<5	12	<5	5
1,1,2-Trichloroethane	<5	<5	<5	<5	5
Trichloroethene	<5	<5	6.1	<5	5
Trichlorofluoromethane	<5	<5	<5	<5	5
1,2,3-Trichloropropane	<5	<5	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	<5	<5	5
Vinyl chloride	<5	<5	<5	<5	5
m,p Xylenes	<2	<2	<2	<2	2
o-Xylene	<2	<2	<2	<2	2
sec-Butylbenzene	<5	<5	<5	<5	5
tert-Butylbenzene	<5	<5	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	
Date Analyzed	12/21/02	12/21/02	
AA ID No.:	147285	147286	
Client ID No.:	BL-15@10'	BL-15@15'	
Dilution Factor:	1.0	1.0	MRL
Compounds			
Acetone	<50	<50	50
Benzene	<2	<2	2
Bromobenzene	<5	<5	5
Bromochloromethane	<5	<5	5
Bromodichloromethane	<5	<5	5
Bromoform	<5	<5	5
Bromomethane	<5	<5	5
2-Butanone	<50	<50	50
Butylbenzene	<5	<5	5
Carbon disulfide	<5	<5	5
Carbon tetrachloride	<5	<5	5
Chlorobenzene	<5	<5	5
Chloroethane	<5	<5	5
Chloroform	<5	<5	5
Chloromethane	<5	<5	5
2-Chlorotoluene	<5	<5	5
4-Chlorotoluene	<5	<5	5
1,2-Dibromo-3-chloropropan	<10	<10	10
Dibromochloromethane	<5	<5	5
1,2-Dibromoethane	<5	<5	5
Dibromomethane	<5	<5	5
1,2-Dichlorobenzene	<5	<5	5
1,3-Dichlorobenzene	<5	<5	5
1,4-Dichlorobenzene	<5	<5	5
Dichlorodifluoromethane	<5	<5	5
1,1-Dichloroethane	280	380	5
1,2-Dichloroethane	6.1	<5	5
1,2-Dichloroethene-(cis)	<5	<5	5
1,2-Dichloroethene (trans)	<5	<5	5
1,1-Dichloroethene	130	240	5
1,2-Dichloropropane	<5	<5	5
1,3-Dichloropropane	<5	<5	5
2,2-Dichloropropane	<5	<5	5
1,3-Dichloropropene (cis)	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser Inc
Project No.: 6999 06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No. A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled	12/12/02	12/12/02	
Date Analyzed:	12/21/02	12/21/02	
AA ID No:	147285	147286	
Client ID No.:	BL-15@50'	BL-15@55'	
Dilution Factor:	1.0	1.0	MRL
Compounds:			
1,3-Dichloropropene-(trans)	<5	<5	5
1,1-Dichloropropene	<5	<5	5
Ethylbenzene	<2	<2	2
Hexachlorobutadiene	<10	<10	10
2-Hexanone	<50	<50	50
Isopropylbenzene	<5	<5	5
Isopropyltoluene	<10	<10	10
Methyl tert-Butyl Ether	<5	<5	5
4-Methyl-2-pentanone	<50	<50	50
Methylene chloride	<50	<50	50
Naphthalene	<10	<10	10
Propylbenzene	<5	<5	5
Styrene	<5	<5	5
1,1,1,2-Tetrachloroethane	<5	<5	5
1,1,2,2-Tetrachloroethane	<5	<5	5
Tetrachloroethene	<5	9.1	5
Toluene	<2	<2	2
1,2,3-Trichlorobenzene	<5	<5	5
1,2,4-Trichlorobenzene	<5	<5	5
1,1,1-Trichloroethane	120	66	5
1,1,2-Trichloroethane	<5	<5	5
Trichloroethene	24	37	5
Trichlorofluoromethane	<5	<5	5
1,2,3-Trichloropropane	<5	<5	5
1,2,4-Trimethylbenzene	<5	<5	5
1,3,5-Trimethylbenzene	<5	<5	5
Vinyl chloride	<5	<5	5
m,p Xylenes	<2	<2	2
o-Xylene	<2	<2	2
sec-Butylbenzene	<5	<5	5
tert-Butylbenzene	<5	<5	5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Hart Crowser, Inc.
Project No.: 6999.06
Project Name: Paccar Torrance
Sample Matrix: Soil
Method: EPA 8260B/5035

AA Project No.: A43899
Date Received: 12/13/02
Date Reported: 01/14/03
Units: ug/Kg

Date Sampled:	12/12/02	12/12/02	
Date Analyzed:	12/21/02	12/21/02	
AA ID No.:	147285	147286	
Client ID No.:	BL 15@50'	BL-15@55'	
Dilution Factor:	1.0	1.0	MRL
Compounds			

MRL: Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2 Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2 Dichlorobenzene	<5	5
1,3 Dichlorobenzene	<5	5
1,4 Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1 Dichloroethane	<5	5
1,2 Dichloroethane	<5	5

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2 Dichloroethene-(cis)	<5	5
1,2 Dichloroethene-(trans)	<5	5
1,1 Dichloroethene	<5	5
1,2 Dichloropropane	<5	5
1,3 Dichloropropane	<5	5
2,2 Dichloropropane	<5	5
1,3 Dichloropropene (cis)	<5	5
1,3-Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2 Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert-Butyl Ether	<5	5
4-Methyl-2 pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2 Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4 Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4 Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p Xylenes	<2	2
o Xylene	<2	2
sec Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Acetone	<50	50
Benzene	<2	2
Bromobenzene	<5	5
Bromochloromethane	<5	5
Bromodichloromethane	<5	5
Bromoform	<5	5
Bromomethane	<5	5
2-Butanone	<50	50
Butylbenzene	<5	5
Carbon disulfide	<5	5
Carbon tetrachloride	<5	5
Chlorobenzene	<5	5
Chloroethane	<5	5
Chloroform	<5	5
Chloromethane	<5	5
2-Chlorotoluene	<5	5
4-Chlorotoluene	<5	5
1,2-Dibromo-3-chloropropane	<10	10
Dibromochloromethane	<5	5
1,2-Dibromoethane	<5	5
Dibromomethane	<5	5
1,2-Dichlorobenzene	<5	5
1,3-Dichlorobenzene	<5	5
1,4-Dichlorobenzene	<5	5
Dichlorodifluoromethane	<5	5
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<5	5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,2-Dichloroethene (cis)	<5	5
1,2-Dichloroethene (trans)	<5	5
1,1-Dichloroethene	<5	5
1,2-Dichloropropane	<5	5
1,3-Dichloropropane	<5	5
2,2-Dichloropropane	<5	5
1,3-Dichloropropene (cis)	<5	5
1,3-Dichloropropene (trans)	<5	5
1,1-Dichloropropene	<5	5
Ethylbenzene	<2	2
Hexachlorobutadiene	<10	10
2-Hexanone	<50	50
Isopropylbenzene	<5	5
Isopropyltoluene	<10	10
Methyl tert Butyl Ether	<5	5
4-Methyl-2-pentanone	<50	50
Methylene chloride	<50	50
Naphthalene	<10	10
Propylbenzene	<5	5
Styrene	<5	5
1,1,1,2-Tetrachloroethane	<5	5
1,1,2,2-Tetrachloroethane	<5	5
Tetrachloroethene	<5	5
Toluene	<2	2
1,2,3-Trichlorobenzene	<5	5
1,2,4-Trichlorobenzene	<5	5
1,1,1-Trichloroethane	<5	5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
1,1,2-Trichloroethane	<5	5
Trichloroethene	<5	5
Trichlorofluoromethane	<5	5
1,2,3-Trichloropropane	<5	5
1,2,4-Trimethylbenzene	<5	5
1,3,5-Trimethylbenzene	<5	5
Vinyl chloride	<5	5
m,p-Xylenes	<2	2
o-Xylene	<2	2
sec-Butylbenzene	<5	5
tert-Butylbenzene	<5	5

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Results ug/Kg	MRL
Aroclor 1016	<100	100
Aroclor 1221	<100	100
Aroclor 1232	<100	100
Aroclor 1242	<100	100
Aroclor 1248	<100	100
Aroclor 1254	<100	100
Aroclor 1260	<100	100

MRL: Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A43899
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
Acenaphthene	<0.1	0.1
Acenaphthylene	<0.1	0.1
Aniline	<0.2	0.2
Anthracene	<0.1	0.1
Azobenzene	<0.1	0.1
Benzidine	<0.4	0.4
Benzo(a)anthracene	<0.1	0.1
Benzo(a)pyrene	<0.1	0.1
Benzo(b)fluoranthene	<0.1	0.1
Benzo(g,h,i)perylene	<0.1	0.1
Benzo(k)fluoranthene	<0.1	0.1
Benzoic acid	<1	1
Benzyl Alcohol	<0.1	0.1
Bis(2-chloroethoxy)methane	<0.1	0.1
Bis(2-chloroethyl)ether	<0.1	0.1
Bis(2-chloroisopropyl)ether	<0.1	0.1
Bis(2-ethylhexyl)phthalate	<0.2	0.2
4-Bromophenyl phenyl ether	<0.1	0.1
Butyl benzyl phthalate	<0.5	0.5
4-Chloro-3-methylphenol	<0.2	0.2
4-Chloroaniline	<0.4	0.4
2-Chloronaphthalene	<0.1	0.1
2-Chlorophenol	<0.1	0.1
4-Chlorophenyl phenyl ether	<0.1	0.1
Chrysene	<0.1	0.1
Di-n-butyl phthalate	<2	2
Di-n-octyl phthalate	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
Dibenzo(a,h)anthracene	<0.1	0.1
Dibenzofuran	<0.1	0.1
1,2-Dichlorobenzene	<0.1	0.1
1,3-Dichlorobenzene	<0.1	0.1
1,4-Dichlorobenzene	<0.1	0.1
3,3-Dichlorobenzidine	<0.4	0.4
2,4-Dichlorophenol	<0.1	0.1
Diethylphthalate	<0.8	0.8
2,4-Dimethylphenol	<0.1	0.1
Dimethylphthalate	<0.2	0.2
2,4-Dinitrophenol	<0.4	0.4
2,4-Dinitrotoluene	<0.1	0.1
2,6-Dinitrotoluene	<0.1	0.1
Fluoranthene	<0.1	0.1
Fluorene	<0.1	0.1
Hexachlorobenzene	<0.1	0.1
Hexachlorobutadiene	<0.1	0.1
Hexachlorocyclopentadiene	<0.1	0.1
Hexachloroethane	<0.1	0.1
Indeno(1,2,3-cd)pyrene	<0.4	0.4
Isophorone	<0.1	0.1
2-Methyl-4,6-dinitrophenol	<0.2	0.2
2-Methylnaphthalene	<0.1	0.1
2-Methylphenol	<0.2	0.2
4-Methylphenol	<0.2	0.2
N-Nitrosodi-n-propylamine	<0.1	0.1
N-Nitrosodimethylamine	<0.1	0.1

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Results mg/Kg	MRL
N-Nitrosodiphenylamine	<0.1	0.1
Naphthalene	<0.1	0.1
2-Nitroaniline	<0.1	0.1
3-Nitroaniline	<0.4	0.4
4-Nitroaniline	<0.2	0.2
Nitrobenzene	<0.1	0.1
2-Nitrophenol	<0.2	0.2
4-Nitrophenol	<0.2	0.2
Pentachlorophenol	<0.1	0.1
Phenanthrene	<0.1	0.1
Phenol	<0.1	0.1
Pyrene	<0.1	0.1
1,2,4-Trichlorobenzene	<0.1	0.1
2,4,5-Trichlorophenol	<0.2	0.2
2,4,6-Trichlorophenol	<0.2	0.2

MRL Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No: 6999.06
AA Project No: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	18.5	93	65 - 135
Bromodichloromethane	17.4	87	42 - 172
Bromoform	18.4	92	22 - 135
Bromomethane	14.0	70	1 - 144
Carbon tetrachloride	17.6	88	43 - 143
Chlorobenzene	18.5	93	24 - 191
Chloroethane	13.5	68	46 - 137
Chloroform	17.1	86	49 - 133
Chloromethane	12.5	63	1 - 193
Dibromochloromethane	18.1	91	26 - 182
1,1-Dichloroethane	15.3	77	47 - 132
1,2-Dichloroethane	16.8	84	51 - 147
1,2-Dichloroethene-(cis)	17.7	89	38 - 155
1,2-Dichloroethene-(trans)	16.8	84	38 - 155
1,1-Dichloroethene	16.4	82	26 - 167
1,2-Dichloropropane	15.7	79	44 - 156
1,3-Dichloropropene-(cis)	18.5	93	14 - 186
1,3-Dichloropropene-(trans)	17.4	87	22 - 178
Ethylbenzene	15.0	75	77 - 123
Methylene chloride	17.6	88	25 - 162
1,1,2,2-Tetrachloroethane	16.4	82	13 - 159
Tetrachloroethene	19.3	97	39 - 136

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	16.7	84	66 - 134
1,1,1-Trichloroethane	16.8	84	41 - 138
1,1,2-Trichloroethane	15.9	80	22 - 178
Trichloroethene	18.9	95	35 - 146
Vinyl chloride	12.8	64	28 - 163
p-Xylene	18.7	94	73 - 127

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Benzene	20	100	65 - 135
Bromodichloromethane	21	105	42 - 172
Bromoform	23	115	22 - 135
Bromomethane	18	90	1 - 144
Carbon tetrachloride	21	105	43 - 143
Chlorobenzene	21	105	24 - 191
Chloroethane	17	85	46 - 137
Chloroform	20	100	49 - 133
Chloromethane	15	75	1 - 193
Dibromochloromethane	20	100	26 - 162
1,1-Dichloroethane	19	95	47 - 132
1,2-Dichloroethane	20	100	51 - 147
1,2-Dichloroethene-(cis)	22	110	38 - 155
1,2-Dichloroethene-(trans)	19	95	38 - 155
1,1-Dichloroethene	20	100	28 - 167
1,2-Dichloropropane	20	100	44 - 156
1,3-Dichloropropene-(cis)	20	100	14 - 186
1,3-Dichloropropene-(trans)	19	95	22 - 178
Ethylbenzene	18	90	77 - 123
Methylene chloride	20	100	25 - 162
1,1,2,2-Tetrachloroethane	19	95	13 - 159
Tetrachloroethene	21	105	39 - 136

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Laboratory Control Standard
Concentration: 20 ug/Kg

Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Toluene	20	100	66 - 134
1,1,1-Trichloroethane	20	100	41 - 138
1,1,2-Trichloroethane	19	95	22 - 178
Trichloroethene	21	105	35 - 146
Vinyl chloride	15	75	28 - 163
p-Xylene	21	105	73 - 127

Allen Aminian
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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	23.1	116	65 - 135
Bromodichloromethane	22.1	111	42 - 172
Bromoform	22.6	113	22 - 135
Bromomethane	18.3	92	1 - 144
Carbontetrachloride	20.7	104	43 - 143
Chlorobenzene	23.7	118	24 - 191
Chloroethane	27.6	138	46 - 137
Chloroform	20.6	103	49 - 133
Chloromethane	25.2	126	1 - 193
Dibromochloromethane	18.9	94	26 - 162
1,1-Dichloroethane	23.2	116	47 - 132
1,2-Dichloroethane	21.5	108	51 - 147
1,2-Dichloroethene (cis)	24.0	120	38 - 155
1,2-Dichloroethene (trans)	24.0	120	38 - 155
1,1-Dichloroethene	21.0	105	28 - 167
1,2-Dichloropropane	24.0	120	44 - 156
1,3-Dichloropropene-(cis)	23.1	119	14 - 186
1,3-Dichloropropene-(trans)	23.6	118	22 - 178
Ethylbenzene	22.1	111	77 - 123
Methylene chloride	20.4	102	25 - 162
1,1,2,2-Tetrachloroethane	19.9	100	13 - 159
Tetrachloroethene	18.7	94	39 - 136

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 12/20/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	21.0	105	66 - 134
1,1,1 Trichloroethane	20.7	104	41 - 138
1,1,2 Trichloroethane	21.5	108	22 - 178
Trichloroethene	23.5	118	35 - 146
Vinyl chloride	41.7	209	28 - 163
o-Xylene	22.3	112	73 - 127

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Laboratory Control Standard
Concentration: 500 ug/Kg

Project No.: 6999 06
AA Project No.: A43899
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Recovered Amount (ug/Kg)	Recovery (%)	Acceptable Range (%)
Aroclor 1016	499	100	70 - 130
Aroclor 1260	597	119	70 - 130

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Acenaphthene	41.6	83	47 - 145
Acenaphthylene	43.6	87	33 - 145
Anthracene	51.3	103	27 - 133
Benzo(b)fluoranthene	48.7	97	24 - 159
Bis(2-chloroethyl)ether	48.0	96	12 - 158
Butyl benzyl phthalate	49.5	99	2 - 152
2-Chloronaphthalene	38.4	77	60 - 118
4-Chlorophenyl phenyl ether	44.5	89	25 - 158
1,2-Dichlorobenzene	39.9	80	32 - 129
1,3-Dichlorobenzene	39.7	79	2 - 172
1,4-Dichlorobenzene	40.2	80	20 - 124
Diethylphthalate	56.3	113	2 - 114
Dimethylphthalate	46.1	92	2 - 112
Fluoranthene	52.0	104	26 - 137
Fluorene	44.3	89	59 - 121
Hexachlorobenzene	54.9	110	2 - 152
Hexachlorobutadiene	37.7	75	24 - 116
Hexachloroethane	40.9	82	40 - 113
Isophorone	47.1	94	21 - 196
Naphthalene	50.1	100	21 - 133
Nitrobenzene	50.4	101	35 - 180
2-Nitrophenol	50.2	100	29 - 182

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Laboratory Control Standard
Concentration: 50 mg/L

Project No.: 6999 06
AA Project No: A43899
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/L)	Recovery (%)	Acceptable Range (%)
Pentachlorophenol	60.1	120	14 - 176
Phenol	52.7	105	5 - 112
1,2,4-Trichlorobenzene	36.8	74	44 - 142
2,4,6-Trichlorophenol	53.1	106	37 - 144

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Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: CAM Metals
Sample ID: Laboratory Control Standard
Concentration: 50 mg/Kg

Project No: 6999.06
AA Project No.: A43899
Date Analyzed: 01/13/03
Date Reported: 01/14/03

Compounds	Recovered Amount (mg/Kg)	Recovery (%)	Acceptable Range (%)
Antimony	47.1	94	75 - 125
Arsenic	49.3	99	75 - 125
Barium	46.0	92	75 - 125
Beryllium	50.2	100	75 - 125
Cadmium	48.0	96	75 - 125
Chromium	48.2	96	75 - 125
Cobalt	47.9	96	75 - 125
Copper	48.4	97	75 - 125
Lead	45.5	99	75 - 125
Mercury	48.4	97	75 - 125
Molybdenum	48.0	96	75 - 125
Nickel	47.2	94	75 - 125
Selenium	42.5	85	75 - 125
Silver	38.0	76	75 - 125
Thallium	48.0	96	75 - 125
Vanadium	48.5	97	75 - 125
Zinc	48.6	97	75 - 125

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147278
Project No: 6999.06
AA Project No: A43899
Date Analyzed: 12/21/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept Rec Range (%)
Bromoform	36.0	90	38.8	97	7	45 - 169
Chlorobenzene	35.4	89	37.6	94	5	37 - 160
Chloroform	33.6	84	34.6	87	4	51 - 138
1,1-Dichloroethane	28.5	71	28.0	70	1	54 - 155
1,1-Dichloroethene	29.6	74	28.0	70	6	2 - 234
Isopropyltoluene	38.6	97	39.6	99	2	50 - 150
Propylbenzene	30.8	77	35.0	88	13	50 - 150
Tetrachloroethene	38.4	96	37.4	94	2	64 - 148
Toluene	32.7	81	31.8	80	1	47 - 150
1,3,5-Trimethylbenzene	41.4	104	41.6	104	0	50 - 150
Vinyl chloride	28.8	72	24.6	62	15	2 - 251

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8260B/5035
Sample ID: Matrix Spike
Concentration: 40 ug/Kg

AA ID No: 147262
Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/23/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Bromoform	42.2	106	44.2	111	5	45 - 169
Chlorobenzene	40.7	102	40.9	102	0	37 - 160
Chloroform	40.6	102	39.3	98	4	51 - 138
1,1-Dichloroethane	34.5	86	36.2	91	6	54 - 155
1,1-Dichloroethene	37.1	93	35.3	88	6	2 - 234
Isopropyltoluene	43.1	108	43.0	108	0	50 - 150
Propylbenzene	32.5	81	32.8	82	1	50 - 150
Tetrachloroethene	43.4	109	41.8	105	4	64 - 148
Toluene	34.4	86	34.5	86	0	47 - 150
1,3,5-Trimethylbenzene	45.6	114	45.5	114	0	50 - 150
Vinyl chloride	26.3	66	28.1	70	6	2 - 251

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrance
Method: EPA 8082 (PCBs)
Sample ID: Matrix Spike
Concentration: 500 ug/Kg

AA ID No: 147268
Project No.: 6999.06
AA Project No.: A43899
Date Analyzed: 12/27/02
Date Reported: 01/14/03

Compounds	Result (ug/Kg)	Spike Recovery (%)	Dup. Result (ug/Kg)	Spike/Dup. Recovery (%)	RPD (%)	Accept Rec. Range (%)
Aroclor 1016	552	110	523	105	5	50 - 150
Aroclor 1260	597	119	593	119	0	50 - 150

Allen Aminian
Project Manager

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LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrance
Method: EPA 8270
Sample ID: Matrix Spike
Concentration: 1 mg/Kg

AA ID No: 147268
Project No: 6999 06
AA Project No: A43699
Date Analyzed: 01/02/03
Date Reported: 01/14/03

Compounds	Result (mg/Kg)	Spike Recovery (%)	Dup. Result (mg/Kg)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec. Range (%)
Acenaphthene	0.92	92	0.88	88	4	47 - 145
4 Chloro 3 methylphenol	1.10	110	1.14	114	4	22 - 147
2 Chlorophenol	1.03	103	1.00	100	3	23 - 134
1 4 Dichlorobenzene	0.82	82	0.83	83	1	20 - 124
2 4 Dinitrotoluene	0.99	99	0.97	97	2	39 - 139
N-Nitrosodi-n propylamine	1.07	107	1.02	102	5	5 - 230
4 Nitrophenol	1.40	140	1.36	136	3	5 - 132
Pentachlorophenol	1.12	112	1.16	116	4	14 - 176
Phenol	1.02	102	1.08	108	6	5 - 112
Pyrene	0.94	94	0.96	96	2	25 - 115
1 2 4-Trichlorobenzene	0.72	72	0.83	83	14	44 - 142

Allen Aminian
Project Manager

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201366
Tel 818-998-5547 FAX 818-998-7258
DATE 12-12-02 PAGE 1 of 2

AA Client: HART CROWSER INC
Project Manager: ABC
Project Name: PACCAR TORRANCE
Job Name: PACCAR
PO Address: 1200 WEST 190th ST.
Phone: 562-435-6340
P.O. No.
Client's Project No: 6999 06
Sampler's Name (Print): RYAN MITCHELTREE
Sampler's Signature
Project Manager Signature
Client's Comment Special Test Requirements (Comments)
Turnaround Time
Division Code
Data Package

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, 418.1, 8081 TCLP, 8082 TCLP, EPA 5035, EPA 8082

Client ID	AA ID	Date	Time	Sample Type	Number Containers
BL-15D10	147277	12-10-02	15:39	SOIL	3
BL-15D15	147278		15:47		
BL-15D20	147279		15:45		
BL-15D25	147280		15:50		
BL-15D30	147281		15:55		
BL-15D35	147282		16:00		
BL-15D40	147283		16:05		
BL-15D45	147284		16:10		
BL-15D50	147285		16:15		
BL-15D55	147286		16:20		
BL-15D60	147287		16:25		

HOLD SAMPLES PRELIMINARY EVALUATION BELOW PQL
CONTACT SAMPLES OKAY TO RUN 12-13-02 RYAN MITCHELTREE
X: Samples added for analysis XRYAN 12/13/02 P.A. 12/13/02

LABCOMMENTS
Analysis wave added for analysis 12/13/02 Allen Aminian
Relinquished by: Allen Aminian Date: 12/13/02 Time: 12:00
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
AA Project No: A12299

AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
9765 ETON AVE., CHATSWORTH, CA 91311 Nº 201367
Tel 818-998-5547 FAX 818-998-7258
DATE 12/12/02 PAGE 2 of 2

AA Client: HART CROWSER INC
Project Manager: ABC
Project Name: PACCAR TORRANCE
Job Name: PACCAR
PO Address: 1200 WEST 190th ST.
Phone: 562-435-6340
P.O. No.
Client's Project No: 6999 06
Sampler's Name (Print): RYAN MITCHELTREE
Sampler's Signature
Project Manager Signature
Client's Comment Special Test Requirements (Comments)
Turnaround Time
Division Code
Data Package

ANALYSIS REQUIRED (Test Name): 8260B, 8270C, 418.1, 8081 TCLP, 8082 TCLP, EPA 5035, EPA 8082

Client ID	AA ID	Date	Time	Sample Type	Number Containers
BL-18D05	147261	12-12-02	13:30	SOIL	3
BL-18D05	147262		13:00		
BL-18D10	147263		13:05		
BL-18D15	147264		13:10		
BL-18D20	147265		13:15		
BL-18D25	147266		13:18		
BL-18D30	147267		13:20		
BL-18D35	147268		13:55		
BL-18D40	147269		13:50		
BL-18D45	147270		13:55		
BL-18D50	147271		13:00		
BL-18D55	147272		13:50		
BL-18	147273		13:55		
BL-15D05	147274		14:40		
BL-15D25	147275		14:45		

HOLD SAMPLES
CONTACT BLUESTRIDGE CANADA BEFORE PROCEEDING
CONTACT SAMPLES OKAY TO RUN FOR EPA 8270 12-13-02
X: Samples added for analysis 12/13/02 P.A.

LABCOMMENTS
Analysis wave added for analysis 12/13/02 Allen Aminian
Relinquished by: Allen Aminian Date: 12/13/02 Time: 12:00
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
AA Project No: A12299

PACCAR 03596

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999.06
AA Project No: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Toluene	23.2	116	66 - 134
1,1,1 Trichloroethane	25.6	128	41 - 138
1,1,2 Trichloroethane	25.5	128	22 - 178
Trichloroethene	25.8	129	35 - 146
Vinyl chloride	41.3	207	28 - 163
o-Xylene	21.6	108	73 - 127

Allen Aminian
Project Manager

American Analytics • 9765 Eton Avenue Chatsworth California 91311
Tel (818) 998 - 5547 • Fax (818) 998 - 7258

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Matrix Spike
Concentration: 20 ug/L

AA ID No.: 148989
Project No.: 6999.06
AA Project No: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Result (ug/L)	Spike Recovery (%)	Dup Result (ug/L)	Spike/Dup Recovery (%)	RPD (%)	Accept Rec Range (%)
Bromoform	14.0	70	13.5	68	3	45 - 169
Chlorobenzene	21.1	106	21.0	105	1	37 - 160
Chloroform	23.7	119	23.1	116	3	51 - 138
1,1 Dichloroethane	30.9	155	29.4	147	5	54 - 155
1,1-Dichloroethene	23.3	117	22.3	112	4	2 - 234
Isopropyltoluene	22.6	113	22.6	113	0	50 - 150
Propylbenzene	22.9	115	22.6	113	2	50 - 150
Tetrachloroethene	16.6	83	15.5	78	6	64 - 148
Toluene	21.8	109	21.0	105	4	47 - 150
1,3,5 Trimethylbenzene	24.0	120	24.4	122	2	50 - 150
Vinyl chloride	29.0	145	27.9	140	4	2 - 251

Allen Aminian
Project Manager

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AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD
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№ 300426
DATE: 1-17-03
PAGE 1 OF 1

AA Client: HART CROWSER
Project Manager: ADC
Project Name: PACCAR TORRENCE
Job Name: PACCAR CAL SANITARY
PO #
Address: 1201 WEST 190TH ST.
Phone: 310-225-2600
PO No.
Client Project No. 6999.06
Sampler's Name (Print): Ryan McMullen
Sampler's Signature
Project Manager's Signature
ANALYSIS REQUIRED (Specify)
Client Comment Special Test Requirements/Comments
Turnaround Time Detection Limits Data Package

Client ID	Lab ID	Date	Time	Sample Type	Number Containers	8260B
MW-3	148982	1-11-03	12	water	3	X
MW-4	148983		3		3	X
MW-5	148984				3	X
MW-6	148985		1:40		3	X
MW-7	148986		12:20		3	X
MW-8	148987		2:50		3	X
MW-9A	148988		1:00		3	X
TRIP BLANK	148989	1-12-03	1:30		2	X

LAB COMMENTS: Received by laboratory after hours

1/30/03 A.A.

Pass 1 (1) Cool contained Ice
Chain broken for weekend. Allen Aminian 1/30/03 A.A.

AA Project No. A438112

Relinquished by: Ryan McMullen Date 1-17-03 Time 1:00
Received by: Date Time
Relinquished by: Date 1/17/03 Time 1800
Received by: Date Time
Relinquished by: Date Time
Received by: Date Time

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project NO: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438112
Date Received: 01/17/03
Date Reported: 01/31/03
Units: ug/L

Date Sampled	01/17/03	01/17/03	01/17/03	01/17/03	
Date Analyzed	01/29/03	01/29/03	01/29/03	01/29/03	
AA ID No	148982	148983	148984	148985	
Client ID No:	MW-3	MW-4	MW-5	MW-6	
Dilution Factor	50.0	50.0	50.0	50.0	MRL
Compounds					
Acetone	<500	<500	<500	<500	10
Benzene	<25	<25	52	<25	0.5
Bromobenzene	<25	<25	<25	<25	0.5
Bromochloromethane	<25	<25	<25	<25	0.5
Bromodichloromethane	<25	<25	<25	<25	0.5
Bromoform	<25	<25	<25	<25	0.5
Bromomethane	<25	<25	<25	<25	0.5
2-Butanone	<500	<500	<500	<500	10
Butylbenzene	<25	<25	<25	<25	0.5
Carbon disulfide	<25	<25	<25	<25	0.5
Carbon tetrachloride	<25	<25	<25	<25	0.5
Chlorobenzene	<25	<25	<25	<25	0.5
Chloroethane	<25	<25	<25	<25	0.5
Chloroform	60	220	140	<25	0.5
Chloromethane	<25	<25	<25	<25	0.5
2-Chlorotoluene	<25	<25	<25	<25	0.5
4-Chlorotoluene	<25	<25	<25	<25	0.5
1,2-Dibromo-3-chloropropan	<50	<50	<50	<50	1
Dibromochloromethane	<25	<25	<25	<25	0.5
1,2-Dibromoethane	<25	<25	<25	<25	0.5
Dibromomethane	<25	<25	<25	<25	0.5
1,2-Dichlorobenzene	<25	<25	<25	<25	0.5
1,3-Dichlorobenzene	<25	<25	<25	<25	0.5
1,4-Dichlorobenzene	<25	<25	<25	<25	0.5
Dichlorodifluoromethane	<25	<25	<25	<25	0.5
1,1-Dichloroethane	<25	<25	<25	<25	0.5
1,2-Dichloroethane	<25	<25	<25	<25	0.5
1,2-Dichloroethene (cis)	420	6200	830	160	0.5
1,2-Dichloroethene (trans)	<25	56	<25	<25	0.5
1,1-Dichloroethene	49	62	110	<25	0.5
1,2-Dichloropropane	<25	<25	<25	<25	0.5
1,3-Dichloropropane	<25	<25	<25	<25	0.5
2,2-Dichloropropane	<25	<25	<25	<25	0.5
1,3-Dichloropropene (cis)	<25	<25	<25	<25	0.5
1,3-Dichloropropene-(trans)	<25	<25	<25	<25	0.5
1,1-Dichloropropene	<25	<25	<25	<25	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438112
Date Received: 01/17/03
Date Reported: 01/31/03
Units: ug/L

Date Sampled	01/17/03	01/17/03	01/17/03	01/17/03	
Date Analyzed	01/29/03	01/29/03	01/29/03	01/29/03	
AA ID No	148982	148983	148984	148985	
Client ID No.:	MW-3	MW-4	MW-5	MW-6	
Dilution Factor	50.0	50.0	50.0	50.0	MRL
Compounds					
Ethylbenzene	<25	<25	<25	<25	0.5
Hexachlorobutadiene	<50	<50	<50	<50	1
2-Hexanone	<500	<500	<500	<500	10
Isopropylbenzene	<25	<25	<25	<25	0.5
Isopropyltoluene	<50	<50	<50	<50	1
Methyl tert-Butyl Ether	<100	<100	<100	<100	2
4-Methyl-2-pentanone	<500	<500	<500	<500	10
Methylene chloride	<250	<250	<250	<250	5
Naphthalene	<100	<100	<100	<100	2
Propylbenzene	<25	<25	<25	<25	0.5
Styrene	<25	<25	<25	<25	0.5
1,1,1,2-Tetrachloroethane	<25	<25	<25	<25	0.5
1,1,2,2-Tetrachloroethane	<25	<25	<25	<25	0.5
Tetrachloroethene	3700	6500	12000	1700	0.5
Toluene	<25	<25	<25	<25	0.5
1,2,3-Trichlorobenzene	<25	<25	<25	<25	0.5
1,2,4-Trichlorobenzene	<25	<25	<25	<25	0.5
1,1,1-Trichloroethane	<25	<25	<25	<25	0.5
1,1,2-Trichloroethane	<25	<25	<25	<25	0.5
Trichloroethene	18000	25000	46000	8000	0.5
Trichlorofluoromethane	<25	<25	<25	<25	0.5
1,2,3-Trichloropropane	<25	<25	<25	<25	0.5
1,2,4-Trimethylbenzene	<25	<25	<25	<25	0.5
1,3,5-Trimethylbenzene	<25	<25	<25	<25	0.5
Vinyl chloride	<25	<25	<25	<25	0.5
m,p-Xylenes	<50	<50	<50	<50	1
o-Xylene	<25	<25	<25	<25	0.5
sec-Butylbenzene	<25	<25	<25	<25	0.5
tert-Butylbenzene	<25	<25	<25	<25	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc.
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438112
Date Received: 01/17/03
Date Reported: 01/31/03
Units: ug/L

Date Sampled	01/17/03	01/17/03	01/17/03	01/17/03	
Date Analyzed	01/29/03	01/29/03	01/29/03	01/29/03	
AA ID No	148986	148987	148988	148989	
Client ID No.:	MW-7	MW-8	MW-8A	Trip Blank	
Dilution Factor	50.0	5.0	5.0	1.0	MRL
Compounds:					
Acetone	<500	<50	<50	<10	10
Benzene	<25	<2.5	<2.5	<0.5	0.5
Bromobenzene	<25	<2.5	<2.5	<0.5	0.5
Bromochloromethane	<25	<2.5	<2.5	<0.5	0.5
Bromodichloromethane	<25	<2.5	<2.5	<0.5	0.5
Bromoform	<25	<2.5	<2.5	<0.5	0.5
Bromomethane	<25	<2.5	<2.5	<0.5	0.5
2-Butanone	<500	<50	<50	<10	10
Butylbenzene	<25	<2.5	<2.5	<0.5	0.5
Carbon disulfide	<25	<2.5	<2.5	<0.5	0.5
Carbon tetrachloride	<25	<2.5	<2.5	<0.5	0.5
Chlorobenzene	<25	<2.5	<2.5	<0.5	0.5
Chloroethane	<25	<2.5	<2.5	<0.5	0.5
Chloroform	<25	6.8	6.0	<0.5	0.5
Chloromethane	<25	<2.5	<2.5	<0.5	0.5
2-Chlorotoluene	<25	<2.5	<2.5	<0.5	0.5
4-Chlorotoluene	<25	<2.5	<2.5	<0.5	0.5
1,2-Dibromo-3-chloropropan	<50	<5	<5	<1	1
Dibromochloromethane	<25	<2.5	<2.5	<0.5	0.5
1,2-Dibromoethane	<25	<2.5	<2.5	<0.5	0.5
Dibromomethane	<25	<2.5	<2.5	<0.5	0.5
1,2-Dichlorobenzene	<25	<2.5	<2.5	<0.5	0.5
1,3-Dichlorobenzene	<25	<2.5	<2.5	<0.5	0.5
1,4-Dichlorobenzene	<25	<2.5	<2.5	<0.5	0.5
Dichlorodifluoromethane	<25	<2.5	<2.5	<0.5	0.5
1,1-Dichloroethane	2100	<2.5	<2.5	<0.5	0.5
1,2-Dichloroethane	<25	<2.5	<2.5	<0.5	0.5
1,2-Dichloroethene (cis)	86	22	20	<0.5	0.5
1,2-Dichloroethene-(trans)	<25	<2.5	<2.5	<0.5	0.5
1,1-Dichloroethene	1000	28	26	<0.5	0.5
1,2-Dichloropropane	<25	<2.5	<2.5	<0.5	0.5
1,3-Dichloropropane	<25	<2.5	<2.5	<0.5	0.5
2,2-Dichloropropane	<25	<2.5	<2.5	<0.5	0.5
1,3-Dichloropropene-(cis)	<25	<2.5	<2.5	<0.5	0.5
1,3-Dichloropropene (trans)	<25	<2.5	<2.5	<0.5	0.5
1,1-Dichloropropene	<25	<2.5	<2.5	<0.5	0.5

Allen Aminian
Project Manager

LABORATORY ANALYSIS RESULTS

Client: Han Crowser, Inc
Project No.: 6999 06
Project Name: Paccar Torrence
Sample Matrix: Water
Method: EPA 8260B

AA Project No.: A438112
Date Received: 01/17/03
Date Reported: 01/31/03
Units: ug/L

Date Sampled	01/17/03	01/17/03	01/17/03	01/17/03	
Date Analyzed	01/29/03	01/29/03	01/29/03	01/29/03	
AA ID No	148986	148987	148988	148989	
Client ID No.	MW-7	MW-8	MW-8A	Trip Blank	
Dilution Factor	50.0	5.0	5.0	1.0	MRL
Compounds					
Ethylbenzene	<25	<2.5	<2.5	<0.5	0.5
Hexachlorobutadiene	<50	<5	<5	<1	1
2-Hexanone	<500	<50	<50	<10	10
Isopropylbenzene	<25	<2.5	<2.5	<0.5	0.5
Isopropyltoluene	<50	<5	<5	<1	1
Methyl tert-Butyl Ether	<100	<10	<10	<2	2
4-Methyl-2-pentanone	<500	<50	<50	<10	10
Methylene chloride	<250	<25	<25	<5	5
Naphthalene	<100	<10	<10	<2	2
Propylbenzene	<25	<2.5	<2.5	<0.5	0.5
Styrene	<25	<2.5	<2.5	<0.5	0.5
1,1,1,2-Tetrachloroethane	<25	<2.5	<2.5	<0.5	0.5
1,1,2,2-Tetrachloroethane	<25	<2.5	<2.5	<0.5	0.5
Tetrachloroethene	440	250	250	<0.5	0.5
Toluene	<25	<2.5	<2.5	<0.5	0.5
1,2,3-Trichlorobenzene	<25	<2.5	<2.5	<0.5	0.5
1,2,4-Trichlorobenzene	<25	<2.5	<2.5	<0.5	0.5
1,1,1-Trichloroethane	130	<2.5	<2.5	<0.5	0.5
1,1,2-Trichloroethane	<25	<2.5	<2.5	<0.5	0.5
Trichloroethene	3100	750	740	<0.5	0.5
Trichlorofluoromethane	<25	<2.5	<2.5	<0.5	0.5
1,2,3-Trichloropropane	<25	<2.5	<2.5	<0.5	0.5
1,2,4-Trimethylbenzene	<25	<2.5	<2.5	<0.5	0.5
1,3,5-Trimethylbenzene	<25	<2.5	<2.5	<0.5	0.5
Vinyl chloride	<25	<2.5	<2.5	<0.5	0.5
m,p-Xylenes	<50	<5	<5	<1	1
o-Xylene	<25	<2.5	<2.5	<0.5	0.5
sec-Butylbenzene	<25	<2.5	<2.5	<0.5	0.5
tert-Butylbenzene	<25	<2.5	<2.5	<0.5	0.5

MRL Method Reporting Limit J Estimated Value

Allen Aminian
Project Manager

PACCAR 03598

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Results ug/L	MRL
Acetone	<10	10
Benzene	<0.5	0.5
Bromobenzene	<0.5	0.5
Bromochloromethane	<0.5	0.5
Bromodichloromethane	<0.5	0.5
Bromoform	<0.5	0.5
Bromomethane	<0.5	0.5
2 Butanone	<10	10
Butylbenzene	<0.5	0.5
Carbon disulfide	<0.5	0.5
Carbon tetrachloride	<0.5	0.5
Chlorobenzene	<0.5	0.5
Chloroethane	<0.5	0.5
Chloroform	<0.5	0.5
Chloromethane	<0.5	0.5
2 Chlorotoluene	<0.5	0.5
4 Chlorotoluene	<0.5	0.5
1,2-Dibromo-3 chloropropane	<1	1
Dibromochloromethane	<0.5	0.5
1,2-Dibromoethane	<0.5	0.5
Dibromomethane	<0.5	0.5
1,2 Dichlorobenzene	<0.5	0.5
1,3-Dichlorobenzene	<0.5	0.5
1,4-Dichlorobenzene	<0.5	0.5
Dichlorodifluoromethane	<0.5	0.5
1,1-Dichloroethane	<0.5	0.5
1,2-Dichloroethane	<0.5	0.5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Reagent Blank

Project No.: 6999.06
AA Project No.: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Results ug/L	MRL
1,2-Dichloroethene-(cis)	<0.5	0.5
1,2-Dichloroethene (trans)	<0.5	0.5
1,1-Dichloroethene	<0.5	0.5
1,2-Dichloropropane	<0.5	0.5
1,3-Dichloropropane	<0.5	0.5
2,2-Dichloropropane	<0.5	0.5
1,3-Dichloropropene-(cis)	<0.5	0.5
1,3-Dichloropropene-(trans)	<0.5	0.5
1,1-Dichloropropene	<0.5	0.5
Ethylbenzene	<0.5	0.5
Hexachlorobutadiene	<1	1
2-Hexanone	<10	10
Isopropylbenzene	<0.5	0.5
Isopropyltoluene	<1	1
Methyl tert Butyl Ether	<2	2
4 Methyl-2-pentanone	<10	10
Methylene chloride	<5	5
Naphthalene	<2	2
Propylbenzene	<0.5	0.5
Styrene	<0.5	0.5
1,1,1,2-Tetrachloroethane	<0.5	0.5
1,1,2,2-Tetrachloroethane	<0.5	0.5
Tetrachloroethene	<0.5	0.5
Toluene	<0.5	0.5
1,2,3 Trichlorobenzene	<0.5	0.5
1,2,4 Trichlorobenzene	<0.5	0.5
1,1,1-Trichloroethane	<0.5	0.5

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Reagent Blank

Project No: 6999.06
AA Project No.: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Results ug/L	MRL
1,1,2 Trichloroethane	<0.5	0.5
Trichloroethene	<0.5	0.5
Trichlorofluoromethane	<0.5	0.5
1,2,3-Trichloropropane	<0.5	0.5
1,2,4-Trimethylbenzene	<0.5	0.5
1,3,5-Trimethylbenzene	<0.5	0.5
Vinyl chloride	<0.5	0.5
m,p Xylenes	<1	1
o Xylene	<0.5	0.5
sec Butylbenzene	<0.5	0.5
tert Butylbenzene	<0.5	0.5

MRL Method Reporting Limit

Allen Aminian
Project Manager

LABORATORY QA/QC REPORT

Client: Hart Crowser, Inc.
Project Name: Paccar Torrence
Method: EPA 8260B
Sample ID: Laboratory Control Standard
Concentration: 20 ug/L

Project No.: 6999.06
AA Project No: A438112
Date Analyzed: 01/29/03
Date Reported: 01/31/03

Compounds	Recovered Amount (ug/L)	Recovery (%)	Acceptable Range (%)
Benzene	29.7	149	65 - 135
Bromodichloromethane	23.1	116	42 - 172
Bromoform	15.5	78	22 - 135
Bromomethane	32.6	163	1 - 144
Carbon tetrachloride	25.2	126	40 - 143
Chlorobenzene	22.5	113	24 - 191
Chloroethane	35.2	176	46 - 137
Chloroform	24.1	121	49 - 133
Chloromethane	41.3	207	1 - 193
Dibromochloromethane	18.4	92	26 - 162
1,1 Dichloroethane	31.0	155	47 - 132
1,2-Dichloroethane	27.0	135	51 - 147
1,2-Dichloroethene-(cis)	27.3	137	38 - 155
1,2-Dichloroethene-(trans)	25.2	126	38 - 155
1,1-Dichloroethene	26.5	133	28 - 167
1,2-Dichloropropane	30.8	154	44 - 156
1,3-Dichloropropene-(cis)	29.7	149	14 - 186
1,3-Dichloropropene-(trans)	26.0	130	22 - 178
Ethylbenzene	22.9	115	77 - 123
Methylene chloride	26.4	132	25 - 162
1,1,2,2-Tetrachloroethane	23.1	116	13 - 159
Tetrachloroethene	17.8	89	39 - 136

Allen Aminian
Project Manager

www.hartcrowser.com

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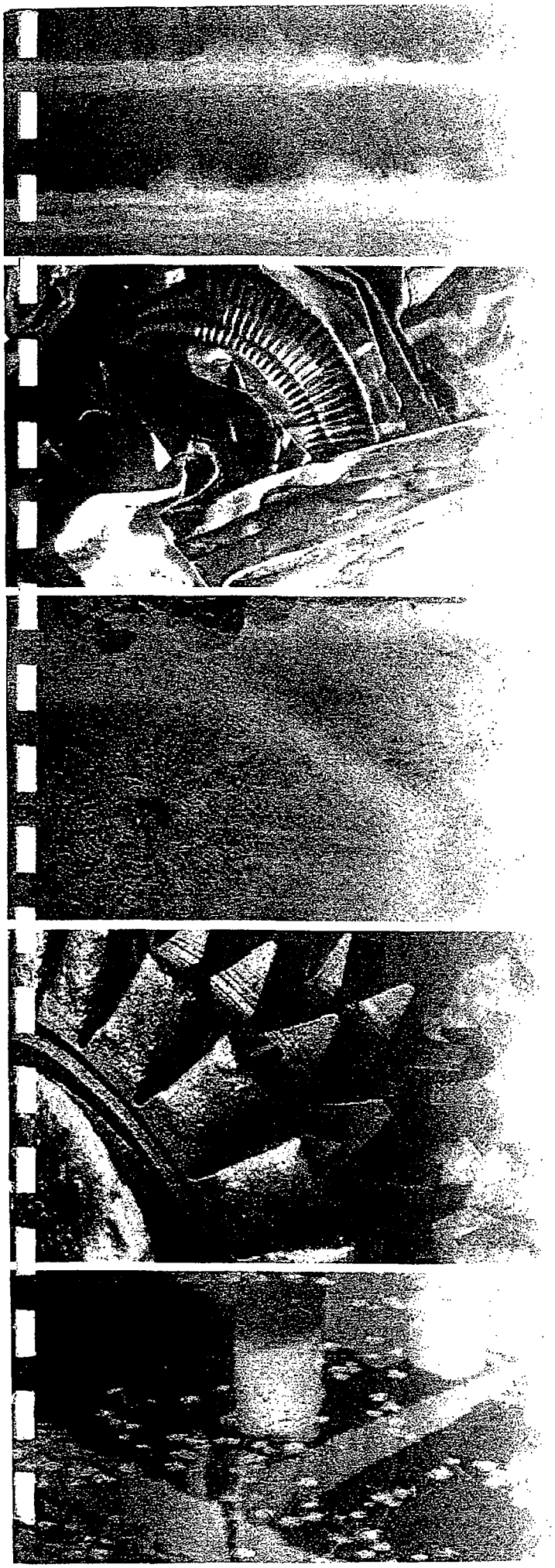

Supplemental Site Investigation – Additional Assessment Report
Former Trico Facility
1206 West 196th Street
Torrance, California

Prepared for
PACCAR Inc

November 2, 2004
16171-00

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EXECUTIVE SUMMARY

Introduction

This report provides additional data and is to be used in conjunction with the Supplemental Site Investigation Report dated December 10, 2003. The Additional Assessment Work Plan (dated March 31, 2004) was developed based on previous work performed at the Site; and discussions between PACCAR, Hart Crowser, and the Regional Water Quality Control Board - Los Angeles Region (RWQCB).

Purpose

The purpose of this Additional Assessment was to collect additional data on soil conditions at the Site, with a view to achieving near-surface soil closure. This investigation included filling data gaps in the following areas:

- In soil beneath Building A to the capillary fringe, about 55 feet below grade;
- In soil adjacent to and beneath the former clarifier in the southeast corner of the Site; and
- In soil along the north portion of the Site adjacent to American Polystyrene (formerly BP Amoco) and Del Amo's former trenches.

Scope of Work

Field Activities

Seven soil borings (BL-21 through BL-27) were drilled on April 8, 9, and 13, 2004, to 55 feet below ground surface at the Site: BL-21 through BL-24 beneath Building A, BL-25 through the former clarifier in the southeast corner of the Site, and borings BL-26 and BL-27 in the north easement. Seventy-seven soil samples were selected for volatile organic compounds (VOC) analysis by EPA Method 8260B.

Summary of Findings

Soil Stratigraph

Materials beneath Building A (borings BL-21 through BL-24) and the former clarifier in the southeast corner of the Site (boring BL-25) consisted of alternating layers of silt, silty sand, sandy silt, and silty clay consistent with the Bellflower aquiclude. Groundwater was not encountered in these five borings.

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Materials beneath the north Site easement (borings BL-26 and BL-27) consisted of a silty clay from ground surface to a depth of approximately 28 feet; a fine- to medium-grained sand to 42 feet; underlain by silty clay to at least 55 feet. In boring BL-27, shell fragments were observed in the clay at a depth of 45 feet. Groundwater was not encountered in these two borings.

Soil Sample Analytical Results

Beneath Building A (Borings BL-21 through BL-24). Of the 44 soil samples analyzed in the four borings, only 5 samples had a VOC concentration above an industrial or residential PRG. TCE was the only VOC detected, and then only within the capillary fringe at depths of 45 feet or greater below ground surface.

Beneath Clarifier in Southeast Corner of Site (Boring BL-25). Boring BL-25 was drilled directly through the outlet chamber of the clarifier in the southeast corner of the Site. There were no VOC concentrations detected above industrial or residential PRGs in soil samples analyzed from boring BL-25.

Beneath North Property Easement (Borings BL-26 and BL-27). The concentration of TCE in the north property easement at depths greater than 10 feet exceed Region 9 Industrial PRGs. TCE concentrations in BL-26 and BL-27 generally increase with depth. The two highest concentrations of TCE in soil on the Site were detected in BL-26 at 50 feet (3,700 ug/kg) and 55 feet (7,000 ug/kg). These concentrations are at the capillary fringe and immediately downgradient from the former trenches on Del Amo property and from the American Polystyrene property.

Conclusions

PACCAR has investigated all known or suspected on-site sources and has not identified any significant source of contamination in the near-surface soil column. Nine boreholes (by SCS Engineers), twenty-seven traditional borings, fourteen cone penetrometer borings, and eight monitoring wells have been installed. In excess of 300 soil samples have been analyzed including the eight borings described in this report. The conclusions described below are based on the subsurface samples collected and analyzed to date.

- The majority of the samples do not have constituent concentrations in excess of residential or industrial PRGs.
- Shallow soil contamination is limited to the area around boring BL-06 in the central part of the Site and the easement to the north.

- Soils beneath Building A are not a source of VOCs to soil and/or groundwater beneath the Site.

- Soils beneath or in proximity to the clarifier in the southeast corner have never been a source of VOCs to soil and/or groundwater beneath the Site.

- Data from the 58 borings indicate the only significant volume of soil on the Site that is contaminated is within the capillary fringe (approximately 45 feet below ground surface) with the exception of the north property easement.

- The vertical distribution of TCE and PCE in soil in the north property easement suggests a surface contaminant source near this area. It is likely that a source of PCE and/or TCE was released near the north property easement. It is unclear whether the source or the mechanism is due solely to contaminated surface runoff migrating onto the Site from the north, high concentrations of subsurface contaminated soils to the north and northeast, possible contributions from minor on-site sources, or a combination of these.

- The only area of the Site that continues to be impacted by constituents of concern is the north property easement. Anecdotal evidence indicates the primary contaminant sources are off-site spills, surface cleaning water runoff, and/or contaminated stormwater runoff.

- Deeper TCE soil contamination (> 45 feet) generally coincides with the TCE groundwater contaminant plume, which appears to emanate from an off-site source north of the Site property boundary.

Based on the investigations and data generated over the past 10 years, with submittal of this report, PACCAR requests closure for soils for the complete southern portion of the Site. The southern portion of the Site is bounded on the north by the north wall face of Building A and on the east, south, and west by the property boundaries. The dimensions of the requested area are approximately 210 feet on the north side, approximately 130 feet on the east and west sides, and 250 feet on the south side.

Recommendations

It is recommended that an impermeable barrier be installed along the northern boundary. The barrier should extend above the ground surface as a curb and be of sufficient depth to prevent overland flow of stormwater and surface water cleaning discharges, and aid in preventing contaminants from leaching out of the neighboring soils and migrating to the south onto the Site. During excavation for the barrier, the walls of the excavation will be investigated and sampled. The

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data collected will be added to the existing database and evaluated to determine the source(s) of soil contamination at the Site.

Passive, *in situ* soil remedial technologies such as enhanced bioremediation should be investigated as an option to address residual contamination remaining in the soil column in the area of the north property easement. A passive remedial technology could easily be implemented adjacent to the barrier during trenching and, therefore, would have very low costs.

On-site and relevant off-site soil data should be combined into a comprehensive 3-D figure. The soil data collected to date indicate that multiple off-site sources and plumes impact the subsurface at depths greater than 45 feet. The 3-D figure may help identify the most significant sources impacting the Site.

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SUPPLEMENTAL SITE INVESTIGATION - ADDITIONAL ASSESSMENT REPORT FORMER TRICO FACILITY 1206 WEST 196TH STREET TORRANCE, CALIFORNIA

1.0 INTRODUCTION

This Additional Assessment Report has been prepared following site assessment activities to collect additional data on soil conditions at the Former Trico Facility (Site) located at 1206 West 196th Street in Torrance, Los Angeles County, California (Figure 1).

This report provides additional data and is to be used in conjunction with the Supplemental Site Investigation Report dated December 10, 2003. The Additional Assessment Work Plan (dated March 31, 2004) was developed based on previous work performed at the Site; and discussions between PACCAR, Hart Crowser, and the Regional Water Quality Control Board - Los Angeles Region (RWQCB).

1.1 Purpose

The purpose of this Additional Assessment was to collect additional data on soil conditions at the Site, with a view to obtaining closure for the near-surface soil. This investigation included filling data gaps in the following areas:

- In soil beneath Building A to the capillary fringe, about 55 feet below grade;
- In soil adjacent to and beneath the former clarifier in the southeast corner of the Site; and
- In soil along the north portion of the Site adjacent to American Polystyrene and Del Amo's former trenches.

1.2 Site Location

The Site is located approximately 0.42 mile south of West 190th Street and approximately 400 feet east of Normandie Avenue in the City of Torrance, Los Angeles County, California.

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1.3 Site Description

The Site is located in an industrial area in an unincorporated section of the County of Los Angeles, California (See Vicinity Map, Figure 1). Land use within 1 mile of the Site is industrial, commercial, and residential. The Site is approximately 100,000 square feet (sf) in area. It is developed with three buildings (Building A, B, and C) and is paved with asphalt concrete or concrete slab-on-grade with no exposed soil. The three buildings are single-story and of different heights. The buildings are described in Table 1.

Table 1 - Descriptions of Buildings

Building	Size in sf	Construction	Former Use
A	20,000	Concrete Block	Pump manufacturing
B	14,000	Concrete Block with Metal Siding	Warehouse/Shipping
C	4,000	Concrete Block	Warehouse

The Site address is 1206 West 196th Street. The property is an "L"-shaped parcel adjacent to the property located at 19706 South Normandie Avenue. The property at 19706 South Normandie Avenue is currently owned and occupied by Mighty Enterprises, Incorporated, a finished products import company. Mighty Enterprises is currently using Buildings B and C for storage of imported patio furniture products. Both properties (1206 West 196th Street and 19706 South Normandie Avenue) were formerly occupied by TRICO. TRICO sold the western section of the Site (19706 South Normandie Avenue) to Mighty Enterprises in 1989.

Land use in the vicinity of the Site is comprised primarily of industrial facilities (Figure 2). American Polystyrene Company (formerly Amoco Chemical Company) is located to the north; Mighty Enterprises and a lumberyard are located to the west; Redman Manufacturing (a heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track are located between the Site and the R.R. Donnelly facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 200 and 600 feet northwest of the Site, respectively. The Site is located adjacent to the western boundary of the "Del Amo Superfund site" and approximately 1,500 feet northeast of the "Montrose Chemical Superfund site."

A Record of Decision (ROD) was issued in March of 1999 for both the Montrose Chemical Superfund site and the Del Amo Superfund site in Los Angeles County, California. Releases of hazardous substances, pollutants, or

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contaminants from the former DDT pesticide manufacturing plant operated by Montrose Chemical Corporation, including but not limited to chlorobenzene, DDT, and parachlorobenzene sulphonic acid, have resulted in hazardous substances contamination in the groundwater. Release of hazardous substances from the former Del Amo Synthetic Rubber Manufacturing plant, including but not limited to benzene, ethylbenzene, and naphthalene have resulted in hazardous substances contamination in the groundwater. Releases of hazardous substances including but not limited to benzene, trichloroethylene (TCE), perchloroethylene (PCE), and dichloroethylene (DCE) have occurred potentially as a result of the operations at both the former Montrose Chemical and Del Amo plant properties and otherwise as a result of the operations of additional facilities in the immediately surrounding area. These releases have also resulted in groundwater contamination. EPA has given the name "joint site" to the groundwater contamination from the Del Amo and Montrose sites and from a few smaller nearby facilities that will be affected by the cleanup. According to the record, two facilities at the Del Amo western border handled solvents and have soils with high concentrations of these solvents. These two facilities are identified as the former Amoco and Lawson Chemical, and the "Former Trenches" of the Del Amo site. It is believed that the trenches were formerly used for waste disposal activities.

1.4 Geology/Hydrology

General soil conditions beneath the Site consist primarily of clayey and sandy silt and silty sand to depths of 45 to 55 feet, underlain by fine and medium sand and silty sand to at least 110 feet. A relatively horizontal marker layer of clayey silt and silty sand with abundant white marine shells was observed at an approximate depth of 45 feet. The fine and medium sand layer has an apparent dip to the east. Varying thicknesses of silt and silty sand were observed between the marker bed and the underlying sand layer.

Along the northern property easement, the soil consists of a silty clay from ground surface to approximately 28 feet; a fine- to medium-grained sand to 42 feet; underlain by silty clay to at least 55 feet (Figure 3, 4, and 5). In boring BL-27, shell fragments observed elsewhere on the site were also observed in the clay at a depth of 45 feet.

Groundwater occurs at approximately 55 to 60 feet below ground surface. A groundwater elevation contour map, prepared from data measured on February 18, 2003, suggests groundwater beneath the Site flows to the southwest at a depth of approximately 59 feet (elevation –14 feet relative to mean sea level) and a gradient of approximately 0.002 foot/foot.

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1.5 Potential Contaminant Sources

As a result of previous work at the site by Hart Crowser and others (see Previous Investigations - Supplemental Site Investigation, Section 2.0), a number of potential on-site and off-site sources have been identified and characterized at the former TRICO facility. See also Figure 2. This portion of the report is presented in its entirety in Appendix B " Summary of Potential Contaminant Sources."

Potential On-Site Sources

All known or suspected potential on-site contaminant source areas have been evaluated using data from 14 cone penetrometer borings, 27 soil borings, and 8 monitoring wells, which also generated soil boring data (Figure 3). Except for the northern border area of the Site and a portion of the northwest corner, the results indicate that the remainder and majority of the Site show all constituents of concern (COCs) are well below industrial PRGs, with most below residential PRGs to a depth of 40 to 45 feet below ground surface. COC's identified below 45 feet appear to be due to capillary forces at the capillary fringe of the groundwater. Refer to Appendix B "Summary of Potential Contaminant Sources" for a full description of the findings.

Potential Off-Site Sources

Significant potential off-site sources have been identified and are shown on Figure 2 - Site Map with Adjacent Properties. It appears that two properties to the north, the former BP/Amoco site directly to the north and the former Lawson Chemical facility abutting the northern property line of Amoco could be major contributors to the groundwater contamination identified beneath the former Trico property. To the northeast and directly adjacent to the eastern boundary of the former Trico site is the former Del Amo facility. These sites are located hydraulically upgradient from the former Trico site. Refer to Appendix B "Summary of Potential Contaminant Sources" for a full description of the findings.

There are numerous specific potential off-site sources of solvents including:

- Eleven of the 14 USTs at the former ~~Amoco~~ LAWSON facility were abandoned in-place, presenting a potential source of solvent-impacted soil and/or groundwater if the tanks were leaking prior to being abandoned in-place. (DTSC Files – Preliminary ESA, Hart Crowser April 1995)

- The former synthetic rubber manufacturing plant utilized five ASTs on the former Shell property along the western property boundary of Shell's property with Trico. (DTSC Files – Preliminary ESA, Hart Crowser April 1995)

- The former Shell rubber facility utilized four "trenches" measuring approximately 50 to 100 feet located at Shell's western property boundary directly adjacent to the northeast corner of former Trico property. The report indicates that the trenches were identified in historical aerial photographs and their purpose was unknown. (DTSC Files – Preliminary ESA, Hart Crowser April 1995)

- Surface runoff from the former Amoco facility bordering the Trico property to the north. The ground surface slopes down from the former Amoco property to the north onto the Site. The DTSC file for the former Amoco Chemical Company contained a violation issued to the facility for discharging paint waste to the ground. It is possible impacted runoff from this facility impacted soil in the north property easement. (AMOCO/ENSR ESA July 1898)

- The highest known concentrations of TCE in soil in the area are **44,000** and **46,000 ug/kg** detected in soil samples at the 10- and 15-foot depths from AMOCO borings B-5 and B-13, respectively, located in the northern tank farm at the AMOCO property. (AMOCO/ENSR ESA July 1898)

1.6 Previous Environmental Investigations

Refer to the Supplemental Site Investigation Report for a detailed summary of previous environmental investigations conducted by others (December 10, 2003).

2.0 ADDITIONAL SITE ASSESSMENT

This report documents the procedures and results of additional assessment activities performed at the Site to provide data for areas previously not addressed. A description of the scope of services provided as part of this assessment is provided below.

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2.1 Scope of Services

2.1.1 Borehole Clearance

GeoVision of Corona, California (GeoVision), a licensed geophysical survey company, was contracted to identify on-site underground lines and utilities in the proposed boring locations. In addition, Hart Crowser contacted Underground Service Alert for the demarcation of underground utilities outside the property boundary at least 72 hours before the proposed work.

2.1.2 Drilling and Soil Sampling Procedures

On April 8, 9, and 13, 2004, ProSonic Drilling, under the observation of a Hart Crowser geologist, advanced seven soil borings to depth of 55 feet at the Site. The locations of the soil borings are shown on Figure 3.

- Four soil borings (BL-21, BL-22, BL-23, and BL-24) were advanced inside Building A;
- One soil boring (BL-25) was advanced adjacent to the former clarifier in the southeast corner of the Site; and
- Two soil borings (BL-26 and BL-27) were advanced along the north portion of the Site (not previously assessed).

Advancement of the soil borings was accomplished using a limited access rig (LAR). An estimated 385 feet of borings were advanced, with 77 soil samples collected for chemical analysis. Soil samples were collected at 5-foot-depth intervals using a California-modified split-spoon sampler, lined with three 2-inch-diameter by 6-inch-long brass rings.

Upon retrieval of the sampler, subsamples were collected using a Quick Syringe. Three 5-milligram (mg) aliquots of soil were placed in three 40-milliliter (mL) vials for volatile organic analysis (VOA vials). One VOA vial contained methanol, while the remaining two vials contained sodium bicarbonate in accordance with EPA Method 5035 and with RWQCB requirements. The remaining soil was used for monitoring VOC content in the headspace above the soil using a photo-ionization detector (PID), and for descriptive purposes. A description of the material observed during advancement of the borings was recorded on field boring logs in accordance with the Unified Soil Classification (USC) System and standard practice. Copies of computer-generated boring logs are presented in Appendix C.

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Upon collection, soil samples for chemical analysis were labeled, recorded on a chain of custody form, and placed in cold storage pending delivery to a state-certified laboratory for chemical analysis.

Upon completion of sampling activities, the borings were backfilled with bentonite chips, hydrated in place, to 1 foot below grade and resurfaced with materials similar to current ground surface covering in each boring location.

2.1.3 Sample Analysis Program

Soil samples were analyzed for VOCs using EPA Method 8260B. Copies of the laboratory reports are presented in Appendix D.

2.1.4 Waste Management Procedures

Approximately 23 drums of soil cuttings and four drums of rinseate water were generated during the additional assessment. The cuttings were transferred to a roll-off container and sampled on June 29, 2004, for proper characterization. The laboratory results are presented in Appendix E. The cuttings were disposed of as non-hazardous soil at the Waste Management Antelope Valley Public Landfill, Palmdale, California. The four drums of rinseate water were disposed of as non-hazardous at the Waste Management Kettleman Hills Facility, Kettleman City, California. Disposal documentation is presented in Appendix F.

2.2 Findings

2.2.1 Soil Description

Materials beneath Building A (borings BL-21 through BL-24) and the former clarifier in the southeast corner of the Site (boring BL-25) consisted of alternating layers of silt, silty sand, sandy silt, and silty clay consistent with the Bellflower aquiclude (Figure 4 and 5). Groundwater was not encountered in these five borings. VOCs were not detected by the PID.

Materials beneath the north Site easement (borings BL-26 and BL-27) consisted of a silty clay from ground surface to a depth of approximately 28 feet; a fine- to medium-grained sand to 42 feet; underlain by silty clay to a depth of at least 55 feet. In boring BL-27, shell fragments were observed in the clay at a depth of 45 feet. Groundwater was not encountered in these two borings.

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2.2.2 Soil Analytical Results

A summary of soil analytical data is provided in Tables A-1, A-2, and A-3 and on Figure 6. A description of these findings, associated with the structures beneath which the samples were collected, is provided below.

Isoconcentration contour maps for TCE in soil are shown on Figures 7 through 10. The contour maps indicate the majority of TCE contamination is located near the north easement with higher concentrations located north of the Site property boundary. The deeper TCE soil isocontours (45 to 60 feet) generally coincide with the groundwater TCE isocontours prepared for the EPA by Haley and Aldrich in 2002 and Hart Crowser in 1998 and indicate a potential source of TCE groundwater contamination emanating from an area near the north property easement.

Beneath Building A (Borings BL-21 through BL-24)

The concentrations detected in samples from ground surface to 45 feet do not indicate a source of VOCs to soil or groundwater beneath the Site. No soil sample exceeded their respective PRGs until reaching a depth of 45 feet or greater.

- For the soil samples analyzed, TCE was the only VOC detected at a concentration above industrial PRGs and then in just three of four borings and only at depths greater than 45 feet beneath Building A.

- Some miscellaneous VOCs were detectable at trace concentrations in a few of the soil samples, but none were above industrial or residential PRGs. Most were sampled at the capillary fringe.

Beneath Clarifier in Southeast Corner of Site (Boring BL-25)

Boring BL-25 was installed adjacent to the clarifier in the southeast corner of the Site. There were no VOC concentrations detected above industrial or residential PRGs in the soil samples from boring BL-25. Only trace concentrations of a few VOCs were detected in the soil samples, most were sampled at the capillary fringe. No constituents were detected in the soil column above residential or industrial PRGs in BL-25 until reaching the capillary fringe (~45 feet) of the water table.

Beneath North Property Easement (Borings BL-26 and BL-27)

Concentrations of TCE in the north property easement from 10 to 55 feet exceed PRGs. TCE concentrations in BL-26 and BL-27 generally increase with depth. The two highest concentrations of TCE detected in soil on the Site were in BL-26 at 50 feet (3,700 ug/kg) and at 55 feet (7,000 ug/kg). PCE was also detected above the PRG in BL-26 at a depth of 55 feet. The contamination is located in the capillary fringe and immediately downgradient from Del Amo's former trenches and American Polystyrene. The concentrations of the few other VOCs detected on Site during this additional assessment do not exceed industrial or residential PRGs.

The subsurface cross sections (Figures 4 and 5) indicate there is a surface source of contamination emanating from north of the Site. In cross section B-B', TCE contamination is not encountered in the soil column until approximately 60 feet below ground surface on the south end of the Site. Toward the north, TCE contamination becomes more apparent closer to the surface and covers a larger portion of the soil column. In cross section A-A' located parallel to the north property easement, TCE contamination is generally present throughout the soil column.

3.0 CONCLUSIONS

PACCAR has investigated all known or suspected on-site sources and has not identified any significant source of contamination in the near-surface soil column. Nine boreholes (by SCS Engineers), twenty-seven traditional borings, fourteen cone penetrometer borings, and eight monitoring wells have been installed. In excess of 300 soil boring samples have been analyzed including the eight borings described in this report. The conclusions described below are based on the subsurface samples collected and analyzed to date.

- The majority of the samples do not have constituent concentrations in excess of residential or industrial PRGs.
- Shallow soil contamination is limited to the area around boring BL-06 in the central part of the Site and the easement to the north.
- Soils beneath Building A are not a source of VOCs to soil and/or groundwater beneath the Site.
- Soils beneath or in proximity to the clarifier in the southeast corner have never been a source of VOCs to soil and/or groundwater beneath the Site.

- Data from the 58 borings indicate the only significant volume of soil on the Site that is contaminated is within the capillary fringe (approximately 45 feet below ground surface) with the exception of the north property easement.

- The vertical distribution of TCE and PCE in soil in the north property easement suggests a surface contaminant source near this area. It is likely that a source of PCE and/or TCE was released near the north property easement. It is unclear whether the source or the mechanism is due solely to contaminated surface runoff migrating onto the Site from the north, high concentrations of subsurface contaminated soils to the north and northeast, possible contributions from minor on-site sources, or a combination of these.

- The only area of the Site that continues to be impacted by constituents of concern is the north property easement. Anecdotal evidence indicates the primary contaminant sources are off-site spills, surface cleaning water runoff, and/or contaminated stormwater runoff.

- Deeper TCE soil contamination (> 45 feet) generally coincides with the TCE groundwater contaminant plume, which appears to emanate from an off-site source north of the Site property boundary.

Based on the investigations and data generated over the past 10 years, with submittal of this report, PACCAR requests closure for soils for the complete southern portion of the site. The southern portion of the site is bounded on the north by the north wall face of Building A and on the east, south, and west by the property boundaries. The dimensions of the requested area are approximately 210 feet on the north side, approximately 130 feet on the east and west sides, and 250 feet on the south side

4.0 RECOMMENDATIONS

It is recommended that an impermeable barrier be installed along the northern Site boundary. The barrier should extend above the ground surface as a curb and be of sufficient depth to prevent overland flow of stormwater and surface water cleaning discharges, and aid in preventing contaminants from leaching out of the neighboring soils and migrating to the south onto the Site. During excavation for the barrier, the walls of the excavation will be investigated and sampled. The data collected will be added to the existing database and evaluated to determine the source(s) of soil contamination at the Site.

Passive, *in situ* soil remedial technologies such as enhanced bioremediation should be investigated as an option to address residual contamination remaining in the soil column in the area of the north property easement. A passive

remedial technology could easily be implemented adjacent to the barrier during trenching and, therefore, would have very low costs.

On-site and relevant off-site soil data should be combined into a comprehensive 3-D figure. The soil data collected to date indicate that multiple off-site sources and plumes impact the subsurface at depths greater than 45 feet. The 3-D figure may help identify the most significant sources impacting the Site.

5.0 LIMITATIONS

The report has been prepared for the exclusive use of PACCAR Inc for submittal to the RWQCB as it pertains to the property located at 1206 West 196th Street in Torrance, California. All work was conducted under the direct supervision of a California Registered Geologist or Engineer and per RWQCB guidelines. Our services were performed in accordance with generally accepted professional practices, related to the nature of the work accomplished, in the same or similar localities, at the time the services are performed, and under the terms and conditions of the existing contract between PACCAR and Hart Crowser.

6.0 REFERENCES

Amoco, 1992. Amoco Corporation - Notification of Groundwater Contamination, August 27, 1992.

Dames & Moore, 1993. Phase I Remedial Investigation Report, Del Amo Study Area, Los Angeles, California, October 29, 1993.

Dames & Moore, 1998. Final Groundwater Remedial Investigation Report, Del Amo Study Area, May 15, 1998.

Department of Conservation, Division of Mines and Geology, Seismic Hazard Evaluation of the Torrance 7.5-Minute Quadrangle, Los Angeles County, California, 1998.

Department of Water Resources, Bulletin No. 104 Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County, June 1961.

Ecology and Environment, Inc. 1987. CERCLA Site Inspection, Lawson Enterprises, Inc., 19500 S. Normandie Ave., Torrance, California. March 30, 1987.

ENSR Consulting and Engineering, 1989. Environmental Assessment Sampling and Analysis Report, AMOCO Chemical Company, Polystyrene Facility, Torrance, California, July 1989.

Hart Crowser, Inc., 1995. Preliminary Environmental Site Assessment at the Former Trico Industries, Inc., Facility 1206 West 196th Street, Torrance, California. Project No. 6756. April 4, 1995.

Hart Crowser, Inc., 1998a. Data Summary for Paccar, Inc., Torrance Facility. Project No. 6830. August 27, 1998.

Hart Crowser, Inc., 1998b. Draft Report of Groundwater Sampling, 1206 West 196th Street, Torrance, California. Project No. 6830. September 23, 1998.

Hart Crowser, Inc., 2000a. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 6830. March 2000.

Hart Crowser, Inc., 2000b. Draft Phase II Investigation Report. 1206 West 196th Street, Torrance, California. Project No. 6905. November 2000.

Hart Crowser, Inc., 2002. Revised Work Plan for Supplemental Site Investigation. 1206 West 196th Street, Torrance, California. Project No. 6999.06. June 12, 2002.

Hart Crowser, Inc., 2003. Supplemental Site Assessment Report. 1206 West 196th Street, Torrance, California. Project No. 6999.06. December 10, 2003.

Hart Crowser, Inc., 2004. Work Plan for Supplemental Site Investigation, Former Trico Facility, 1206 West 196th Street, Torrance, California. Project No. 16171.00. March 31, 2004.

H2O Science, Inc., 1995. Trico - Preliminary Site Characterization Report, Former Trico Industries Facility, July 12, 1995.

SCS Engineers (SCS), 1987. Preliminary Draft Report for Additional Site Investigation at the Trico Industries Facility. 19706 Normandie Avenue, Torrance, California.

USEPA, 1999. Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume I. March 1999.

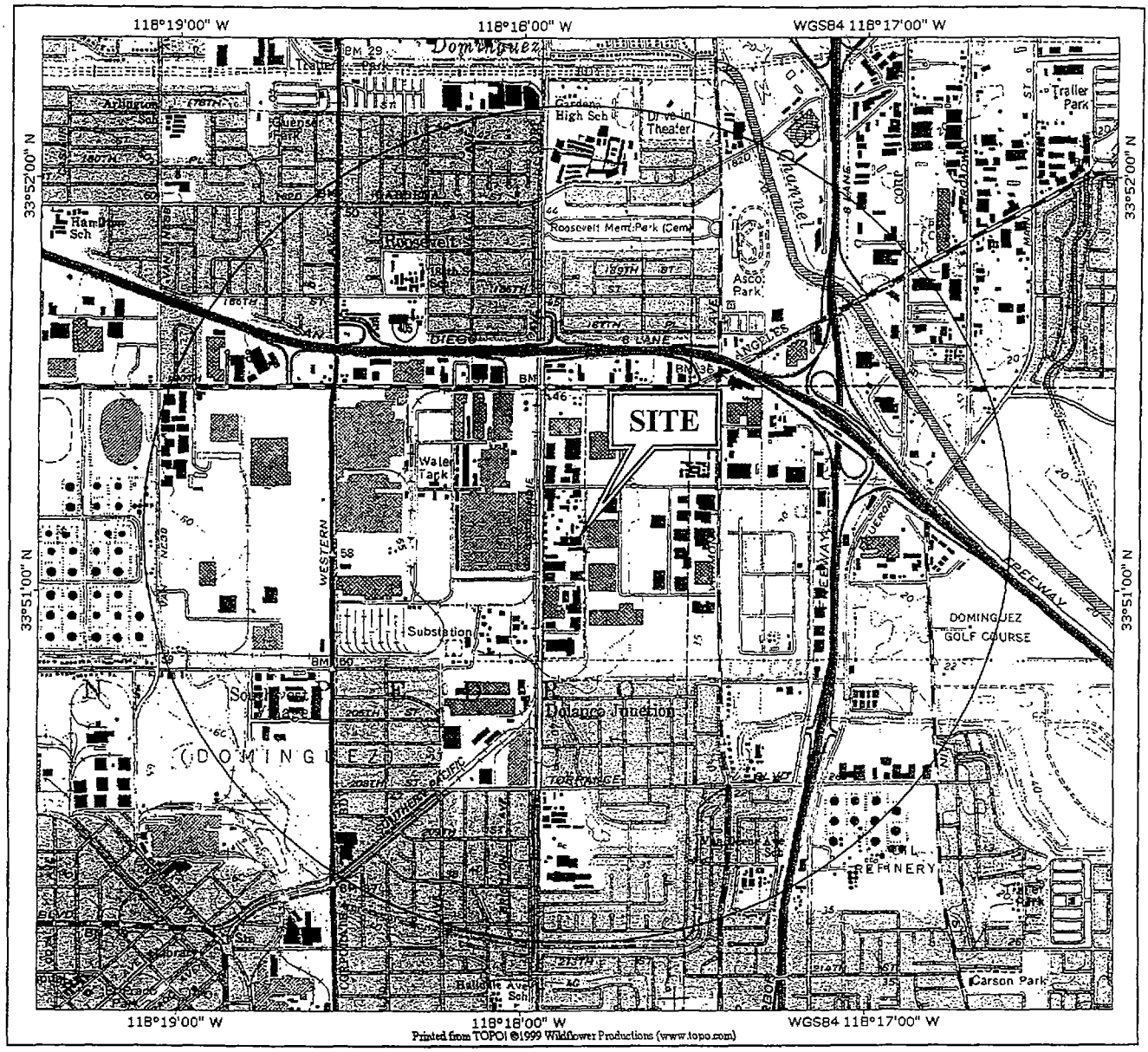
PACCAR 03620

United States Geological Survey, 1964. Topographic Map for the Torrance Quadrangle, 7.5-Minute Map, photorevised, 1981

F:\docs\jobs\1617100\Add'l Phase II Report.doc

PACCAR 03621

Figures



0 2,000 4,000 6,000ft

Source: USGS, 1964
Torrance - California Quadrangle
7.5-minute (topographic) series
Photorevised 1981
Scale: 1" = 2,000 ft (1:24,000)
Site Location: Township 4S, Range 14W, Section 1G S.B B&M

N

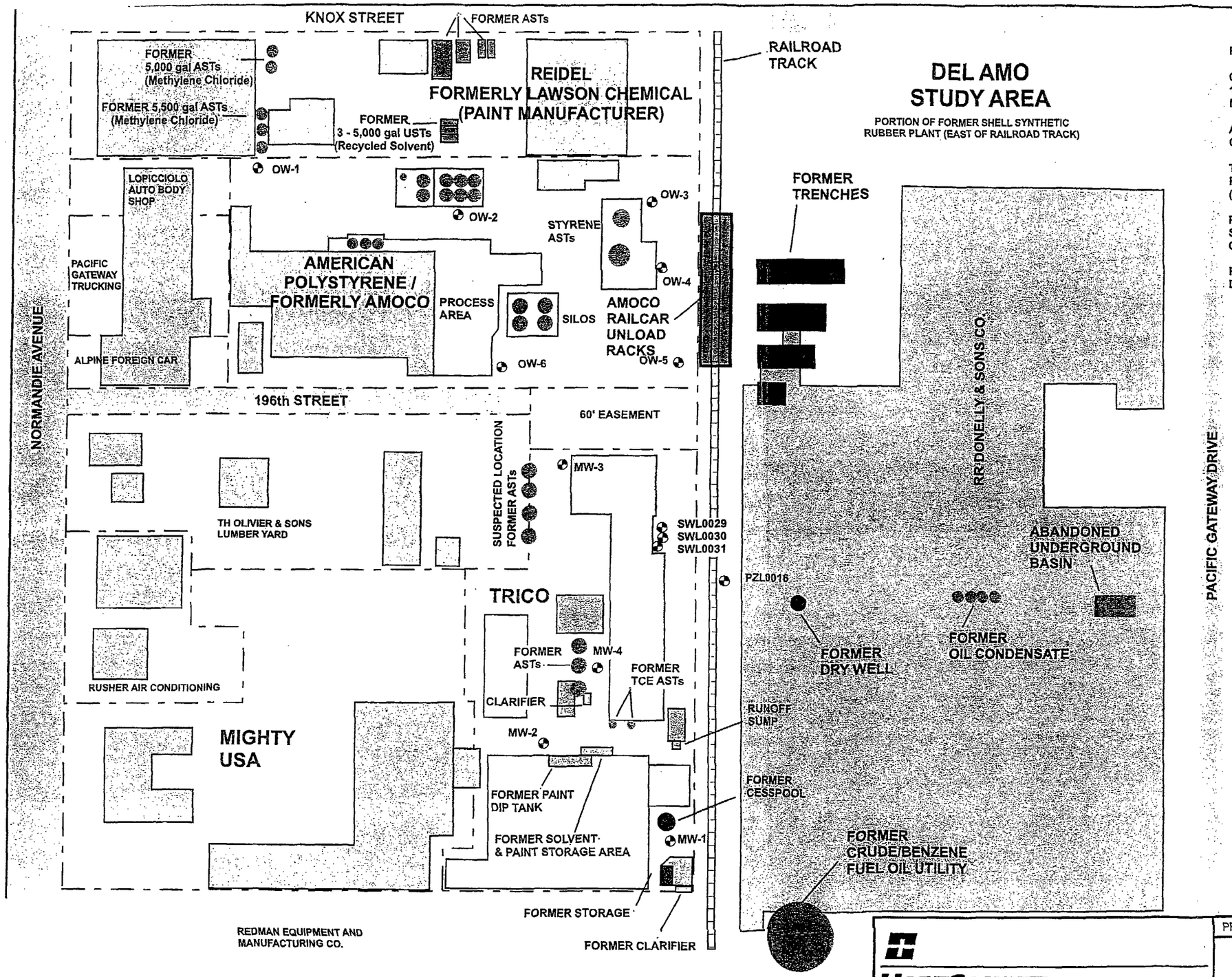
HARTCROWSER

PROJECT: Paccar Additional Assessment
1206 W. 196 th Street, Torrance, CA

Figure 1. Vicinity Map

Project No.:	Date:
161710-00	10/04

1617100AA.CDR CAS 7/7/04



REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

AMOCO CORPORATION - NOTIFICATION OF GROUNDWATER CONTAMINATION, AUGUST 27, 1992 (AMOCO)

TRICO - PRELIMINARY SITE CHARACTERIZATION REPORT, FORMER TRICO INDUSTRIES FACILITY, JULY 12, 1995 (H2O SCIENCE, INC.)

PHASE I REMEDIAL INVESTIGATION REPORT, DEL AMO STUDY AREA, LOS ANGELES, CALIFORNIA, OCTOBER 29, 1993,(DAMES & MOORE)

FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998, (DAMES & MOORE)

1617100AB.CDR ABJ 10/27/04

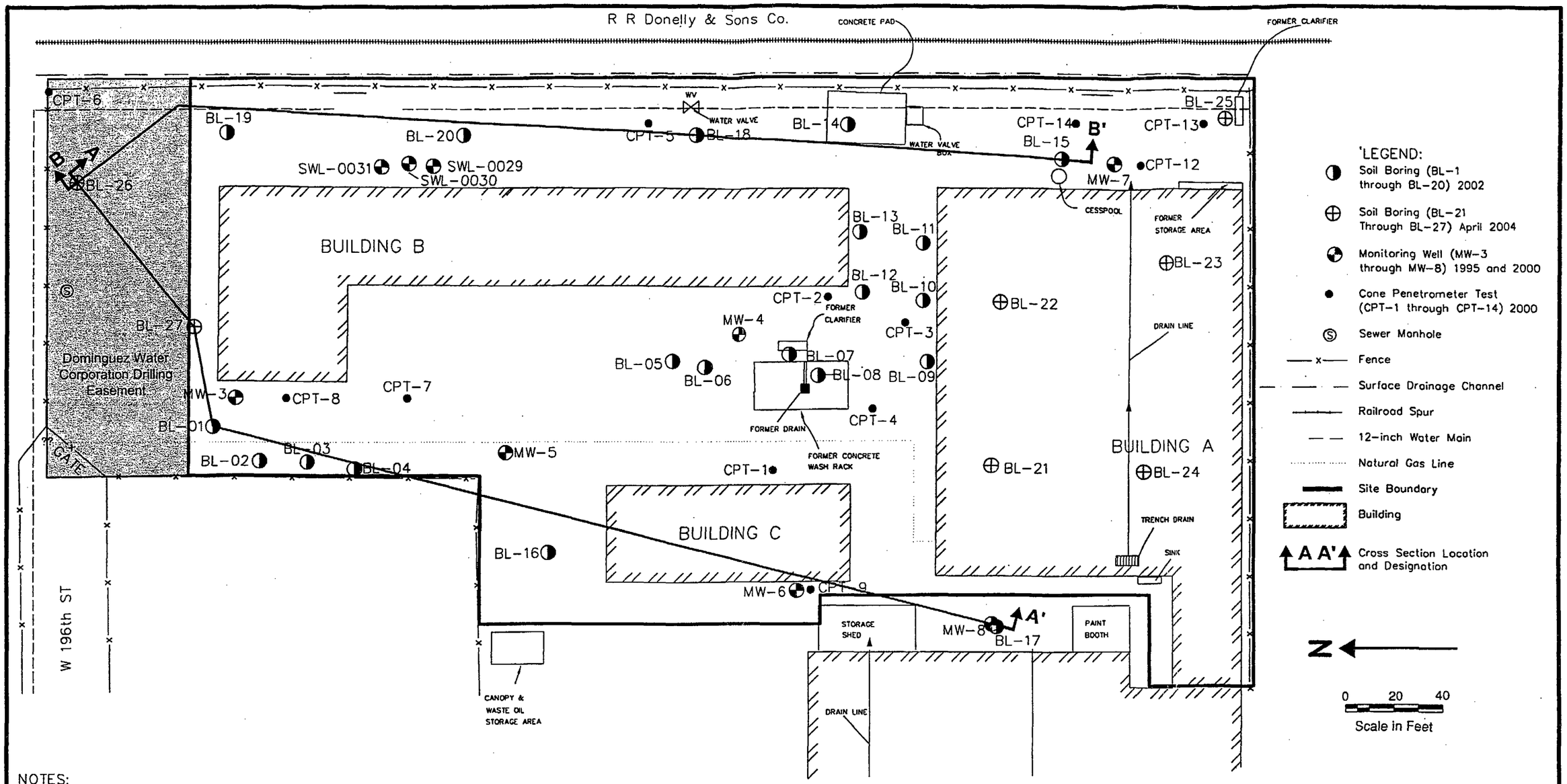
HARTCROWSER

PROJECT NO.: 16171-00 | DATE: 10/04

PROJECT NAME: TRICO - TORRANCE

SITE MAP WITH ADJACENT PROPERTIES

FIGURE 2



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE. 101FT S OF CTR LINE PROD KNOX ST. 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: VOCs were analyzed by EPA Method 8260B/5035 (Results in ug/Kg)

6: 60Dup – Duplicate Sample

7: Concentration greater than Preliminary Remediation Goals (PRG) are bolded.

8: CPT-10 and CPT-11 Located off Map West on West 196th Street.

HARTCROWSER

SOIL BORING, CONE PENETROMETER, MONITORING WELL, AND CROSS SECTION LOCATION MAP

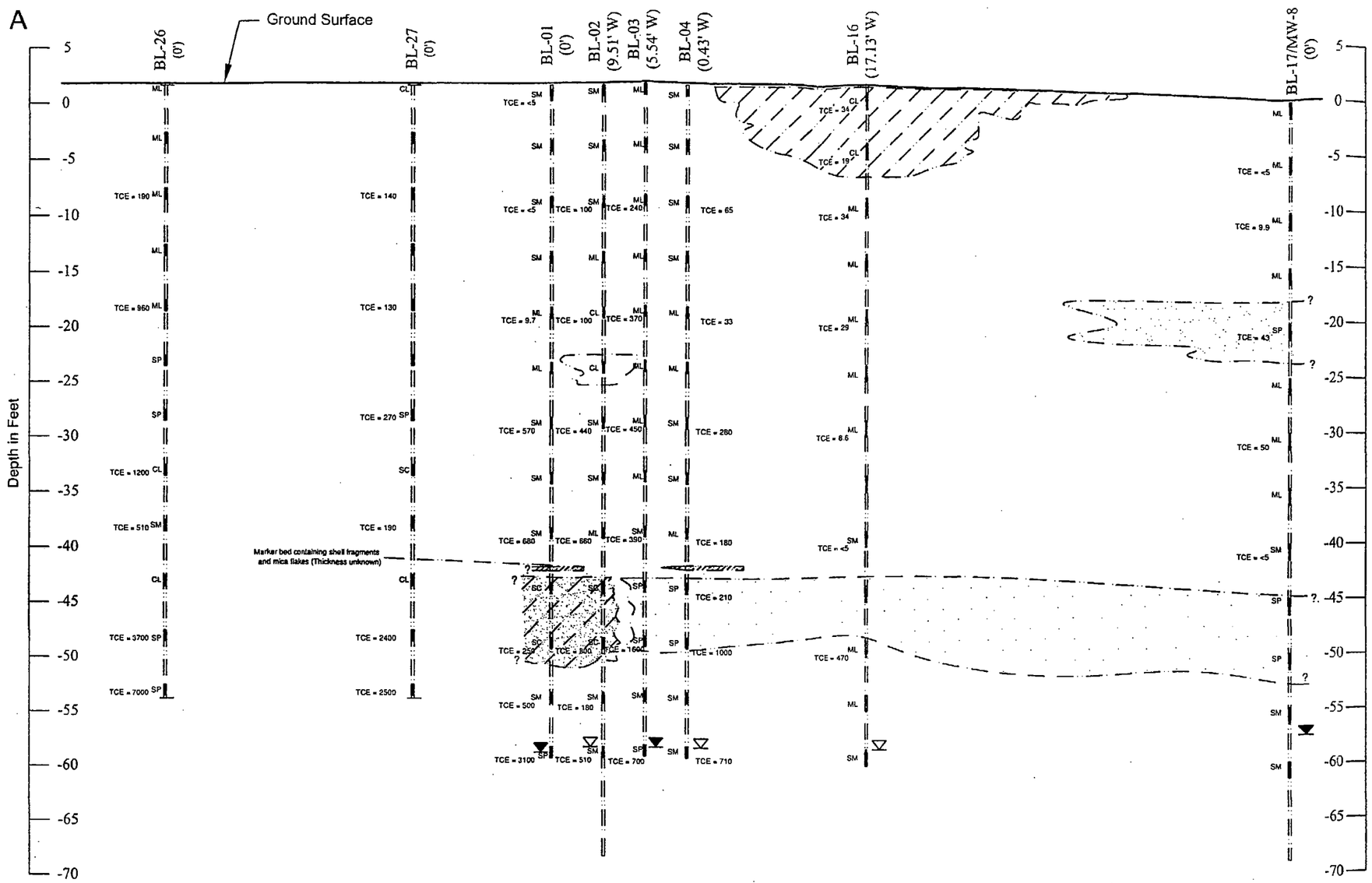
Supplemental Site Investigation - Additional Assessment

Date: 10/04

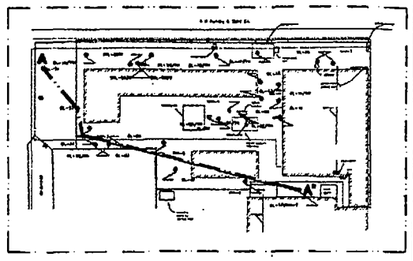
Job No.: 16171-00

1617100-008.DWG HEL 11/3/04

Figure 3



CROSS SECTION LOCATION MAP:



LEGEND:

1: CL – Inorganic Clays of low to medium plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays

2: ML – Inorganic Silts and very fine Sands, Rock Flour, Silty or Clayey fine Sands or Clayey Silts with slight plasticity

3: SC – Clayey Sands, Sand–Clay mixtures

4: SM – Silty Sands, Sand–Silt mixtures

5: SP – Poorly graded Sands, Gravelly Sands, little or no fines

6: ▼ – Approximate Water Level measured below ground surface (using Electric Water Level Meter measured)

7: ▽ – First encountered water observed in soil sample

8: BL–18 – Boring Number

Horizontal Scale in Feet

0 20 40

0 5 10

Vertical Scale in Feet

Vertical Exaggeration x 4

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

5: TCE = Trichloroethene

6: DASHED CONTENTS BETWEEN SOIL UNITS ARE BASED UPON INTERPRETATION BETWEEN BORINGS AND REPRESENT OUR INTERPRETATION OF SUBSURFACE CONDITIONS BASED ON CURRENTLY AVAILABLE DATA.

7: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

8: MSL = Mean Sea Level

HARTCROWSER

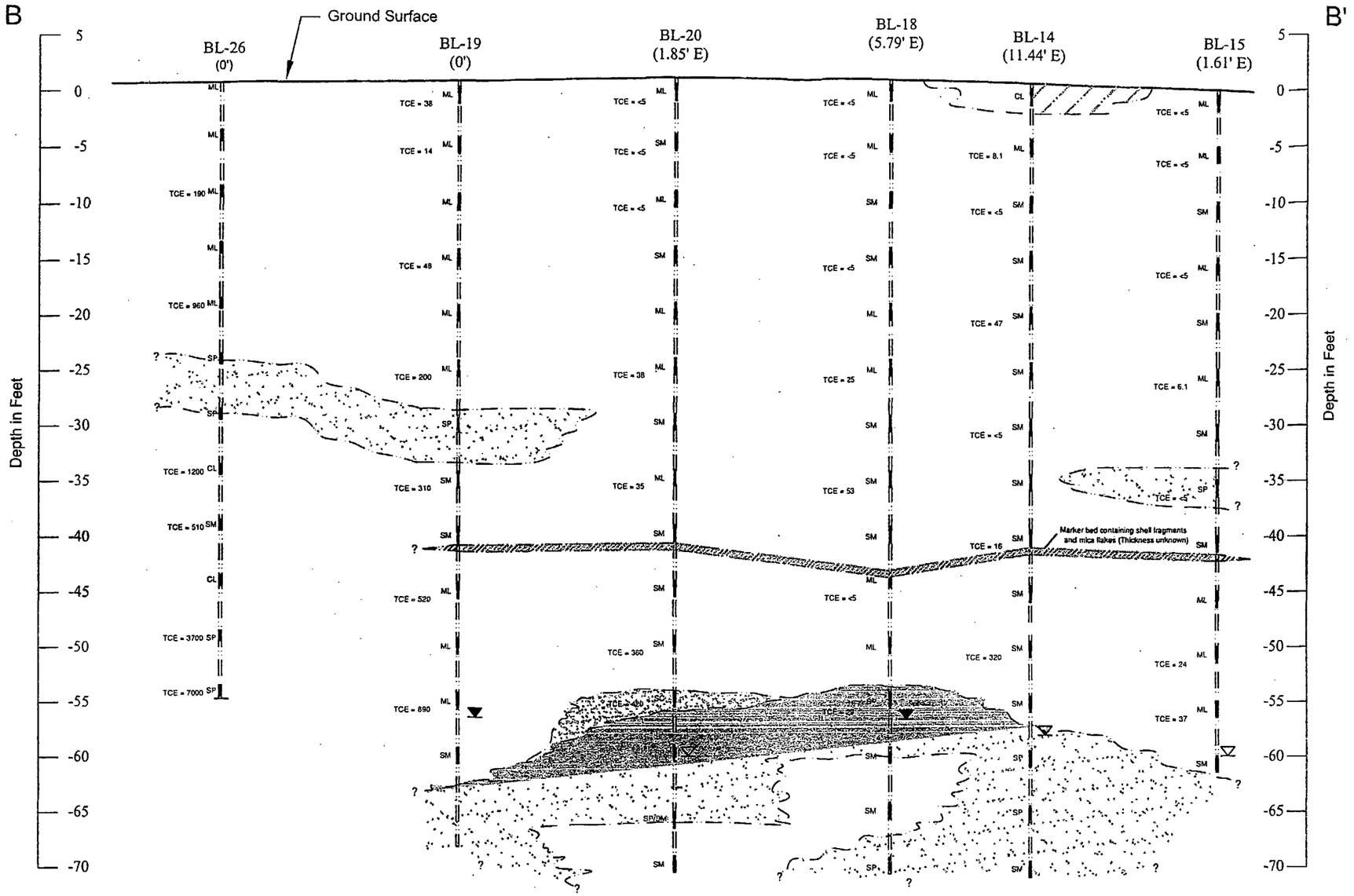
GENERALIZED SUBSURFACE CROSS SECTION A-A'

Supplemental Site Investigation
Additional Assessment

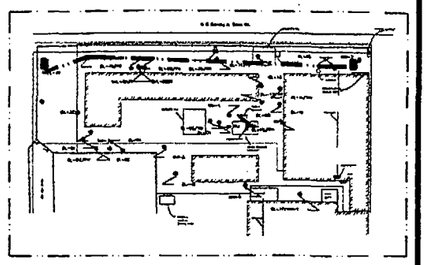
Project Number: 16171-00
Date: 10/04

Prepared by: _____
Checked by: _____
1617100-014.dwg HEL 11/3/04

Figure 4



CROSS SECTION LOCATION MAP:



LEGEND:

1: CL – Inorganic Clays of low to medium plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays

2: ML – Inorganic Silts and very fine Sands, Rock Flour, Silty or Clayey fine Sands or Clayey Silts with slight plasticity

3: SC – Clayey Sands, Sand–Clay mixtures

4: SM – Silty Sands, Sand–Silt mixtures

5: SP – Poorly graded Sands, Gravelly Sands, little or no fines

6: ▼ – Approximate Water Level measured below ground surface (using Electric Water Level Meter measured)

7: ▽ – First encountered water observed in soil sample

8: BL–18 – Boring Number

Horizontal Scale in Feet

0 20 40

0 5 10

Vertical Scale in Feet

Vertical Exaggeration x 4

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

5: TCE = Trichloroethene

6: DASHED CONTENTS BETWEEN SOIL UNITS ARE BASED UPON INTERPRETATION BETWEEN BORINGS AND REPRESENT OUR INTERPRETATION OF SUBSURFACE CONDITIONS BASED ON CURRENTLY AVAILABLE DATA.

7: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

8: MSL = Mean Sea Level

HARTCROWSER

GENERALIZED SUBSURFACE CROSS SECTION B-B'

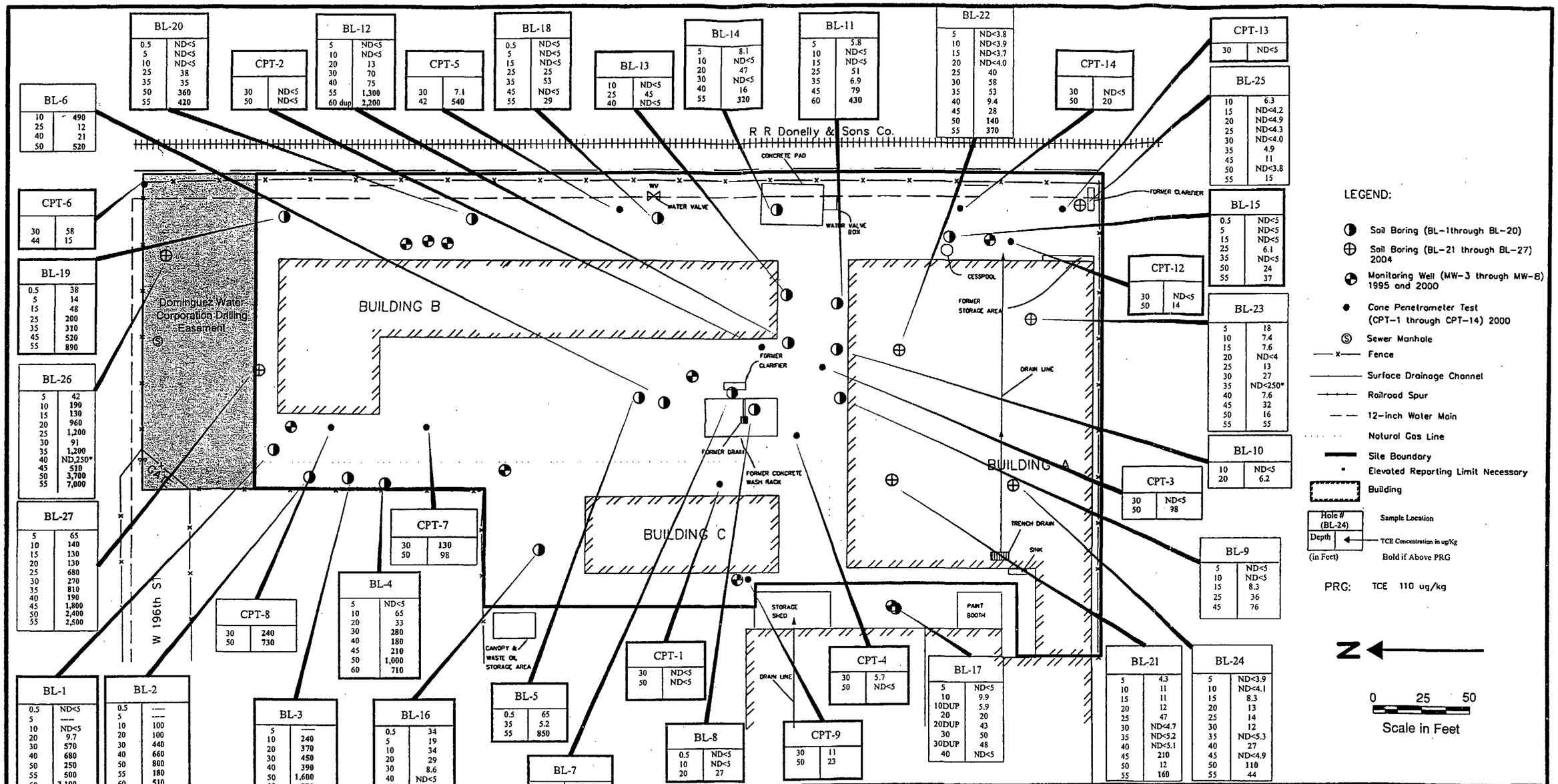
Supplemental Site Investigation
Additional Assessment

Project Number: 16171-00
Date: 10/04

Prepared by: _____
Checked by: _____
1617100-015.dwg HEL 11/3/04

Figure 5

PACCAR 03627



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

5: VOCs were analyzed by EPA Method 8260B/5035 (Results in ug/Kg)

6: 60Dup – Duplicate Sample

7: Concentration greater than Preliminary Remediation Goals (PRG) are bolded.

8: CPT-10 and CPT-11 Located off Map West on West 196th Street.

HARTCROWSER

SOIL ANALYTICAL RESULTS FOR TCE

Supplemental Site Investigation - Additional Assessment

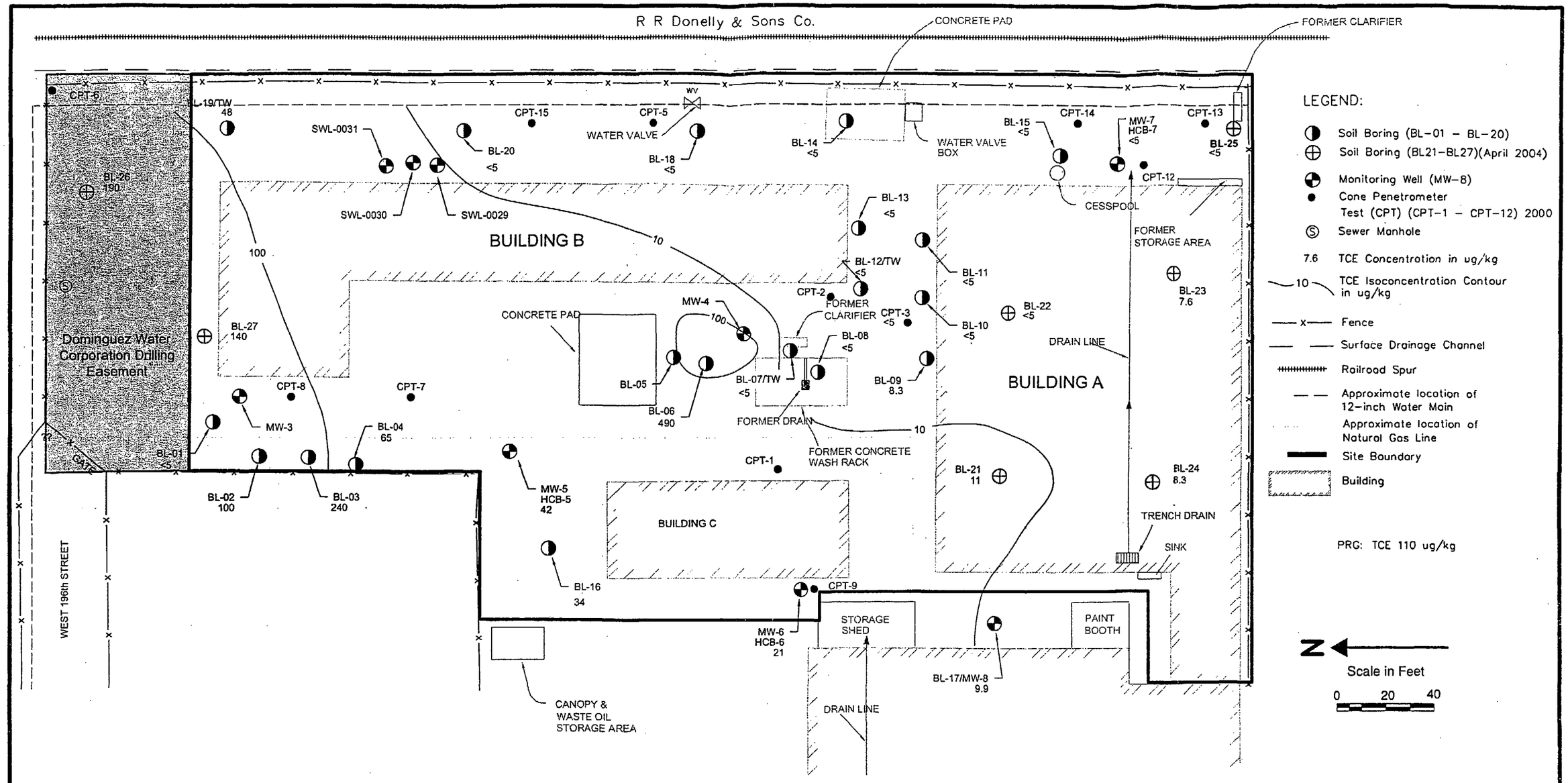
Date: 10/04

Job No.: 16171-00

1617100-009.DWG HEL 11/3/04

Figure 6

PACCAR 03628



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 10 AND 15 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

TCE SOIL DATA
10- OR 15-FOOT-DEPTH INTERVAL

Supplemental Site Investigation - Additional Assessment

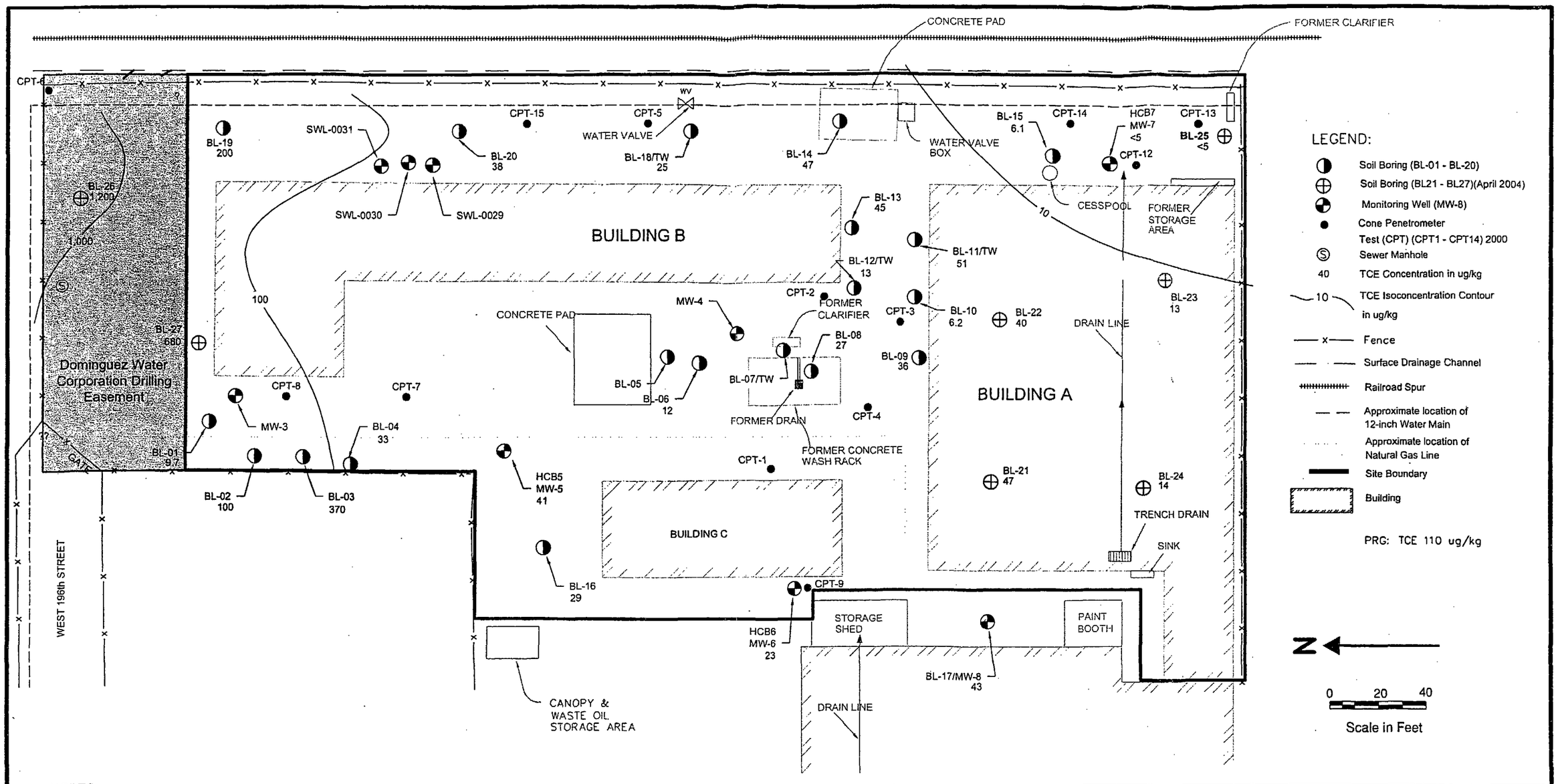
Date: 10/04

Job No.: 16171-00

1617100-010.DWG HEL 11/3/04

Figure 7

PACCAR 03629



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE. 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 20 AND 25 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

TCE SOIL DATA
20- OR 25-FOOT-DEPTH INTERVAL

Supplemental Site Investigation - Additional Assessment

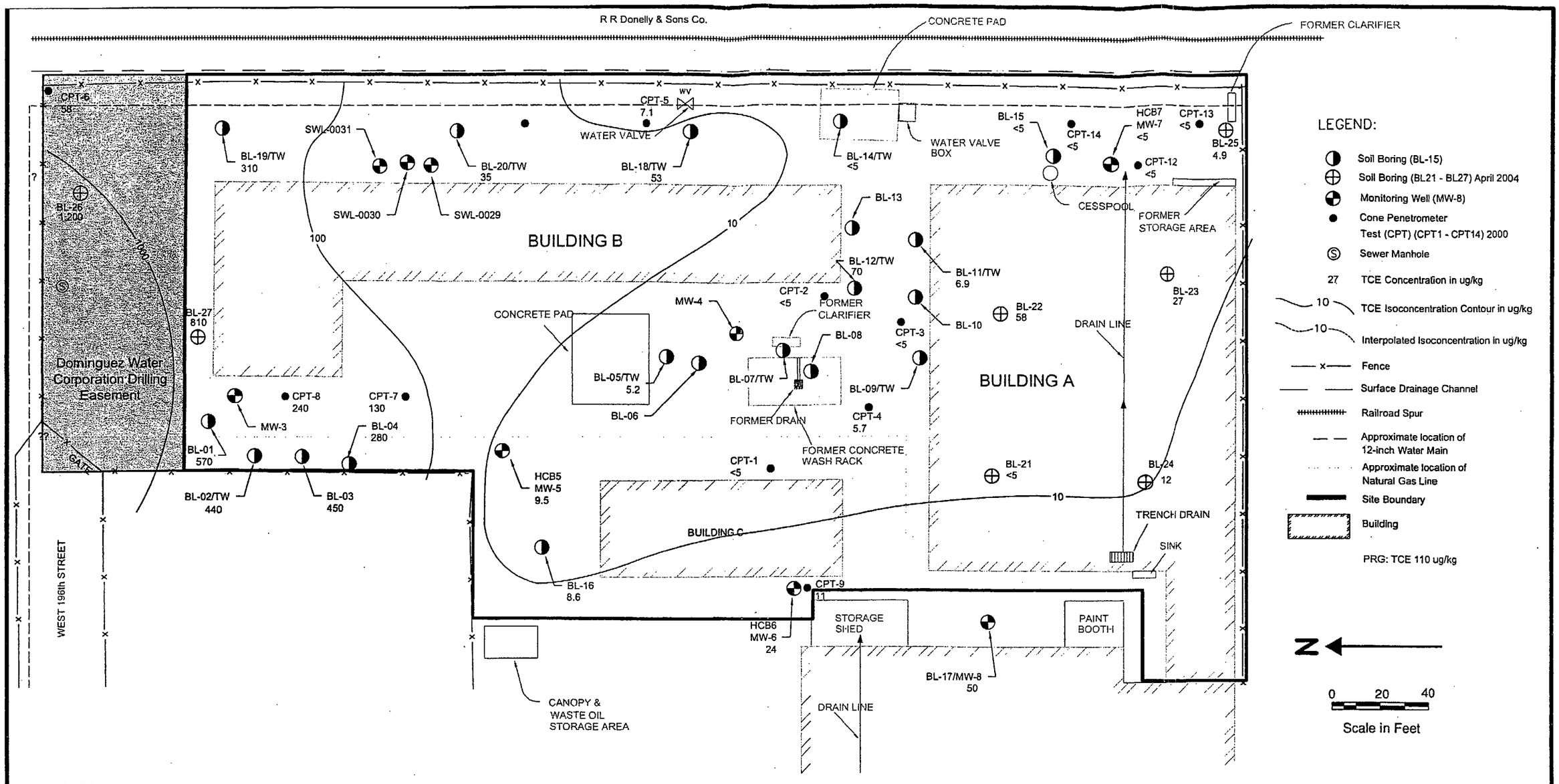
Date: 10/04

Job No.: 16171-00

1617100-011.DWG HEL 11/3/04

Figure 8

PACCAR 03630



NOTES:

1. BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 30 AND 35 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

TCE SOIL DATA
30- OR 35-FOOT-DEPTH INTERVAL

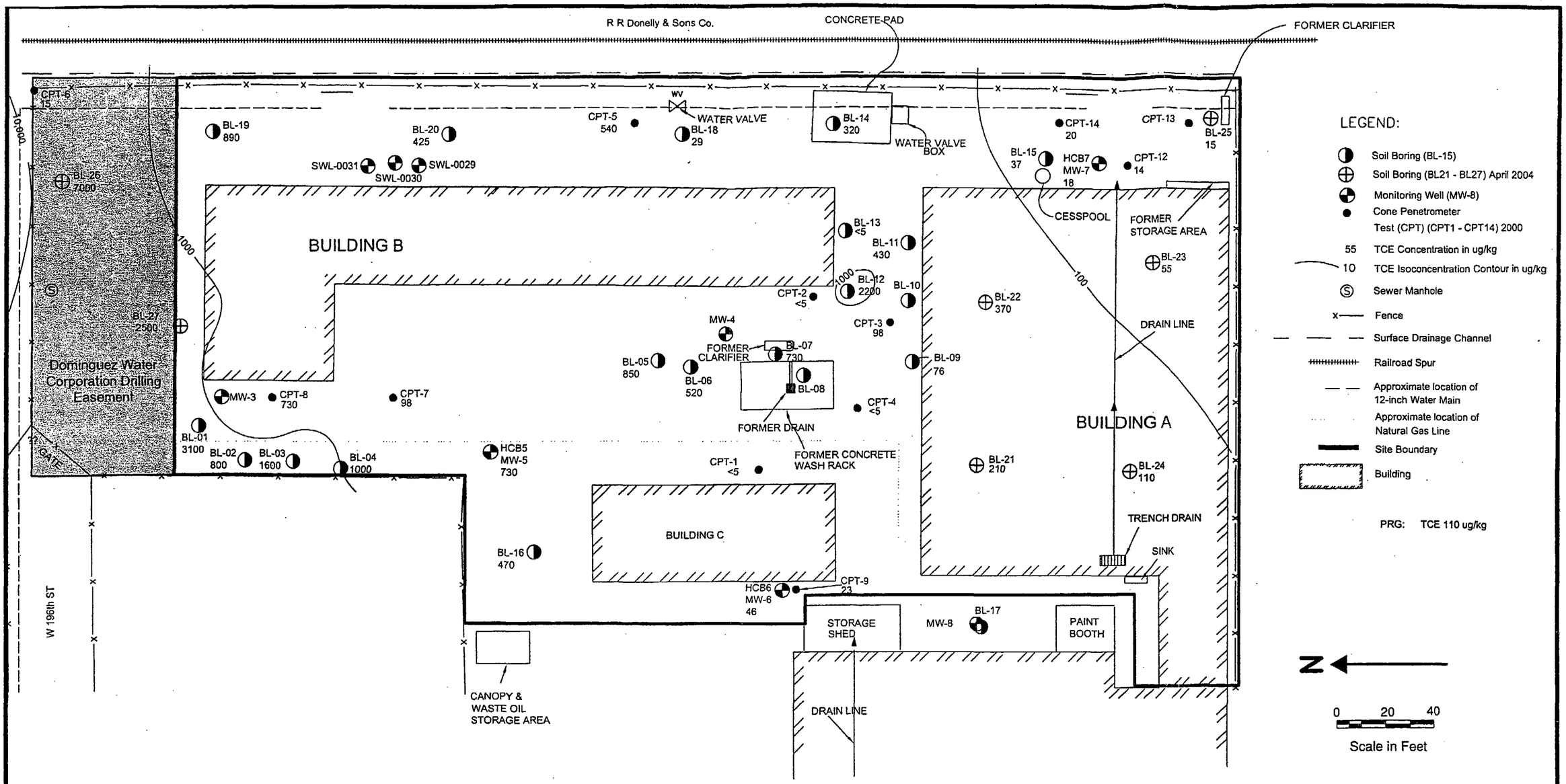
Supplemental Site Investigation - Additional Assessment

Date: 10/04

Job No.: 16171-00

1617100-012.DWG HEL 11/3/04

Figure 9



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW - Temporary Well Location

5: DATA PRESENTED COMBINED ANALYTICAL RESULTS FROM THE 40 AND 45 FOOT DEPTHS.

6: ANALYTICAL RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg).

7: ISOCONCENTRATION LINES ARE IN ug/kg.

8: <5 = ANALYTE NOT DETECTED ABOVE THE PRACTICAL QUANTITATION LIMIT (PQL).

HARTCROWSER

TCE SOIL DATA
45-TO 60-FOOT-DEPTH INTERVAL

Supplemental Site Investigation - Additional Assessment

Date: 10/04

Job No.: 16171-00

1617100-013.DWG HEL 11/3/04

Figure 10

PACCAR 03632

APPENDIX A
SUMMARY OF SOIL ANALYTICAL DATA

Table A-1
Summary of
Soil Boring Analytical Data

Analyte

VOCs by EPA Method 8260B/5035 in ug/kg

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethene PRG	1,1-Dichloroethene CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-1	0.5	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-1	5	12/10/02	--	--	--	--	--	--		--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5
BL-1	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-1	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	11	<2	<5	<5	<5	<5	<5	9.7	<2	<2	--	--	--	--	--
BL-1	30	12/10/02	<50	<2	<50	<5	<5	15		24	12	11	32	<5	<5		<10	<5	<50	<2	110	<10	<5	500	<2	<5	<5	<5	<5	<5	670	<2	<2	--	--	--	--	--
BL-1	40	12/10/02	<50	<2	<50	<5	<5	19		34	19	14	41	<5	<5		<10	<5	<50	<2	130	<10	<5	630	<2	<5	<5	<5	<5	<5	880	<2	<2	--	--	ND	<100	--
BL-1	50	12/10/02	<50	<2	<50	<5	<5	8.5		30	16	6.6	19	<5	<5		<10	<5	<50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	250	<2	<2	--	--	--	--	--
BL-1	55	12/10/02	<50	<2	<50	<5	<5	14		21	7.4	13	27	<5	<5		<10	<5	<50	<2	150	<10	<5	370	<2	<5	<5	<5	<5	<5	500	<2	<2	--	--	--	--	--
BL-1	60	12/10/02	<50	3.6	<50	<5	<5	18		6.5	<5	<5	47	<5	<5		<10	<5	<50	<2	<50	<10	<5	1700	<2	<5	<5	<5	<5	<5	2100	<2	<2	--	--	--	--	--
BL-2	0.5	12/10/02	--	--	--	--	--	--		--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BL-2	5	12/10/02	--	--	--	--	--	--		--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5
BL-2	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	100	<2	<2	--	--	--	--	--
BL-2	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	76	<2	<5	<5	<5	<5	<5	100	<2	<2	--	--	--	--	--
BL-2	30	12/10/02	<50	<2	<50	<5	<5	13		5.8	<5	<5	24	<5	<5		<10	<5	<50	<2	<50	<10	<5	350	<2	<5	<5	<5	<5	<5	440	<2	<2	--	--	--	--	--
BL-2	40	12/10/02	<50	2.6	<50	<5	<5	33		11	9.3	<5	43	<5	<5		<10	<5	<50	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	880	<2	<2	--	--	ND	<100	--
BL-2	50	12/10/02	<50	<2	<50	<5	<5	14		6	<5	<5	27	<5	<5		<10	<5	<50	<2	<50	<10	<5	530	<2	<5	<5	<5	<5	<5	800	<2	<2	--	--	--	--	--
BL-2	55	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	180	<2	<2	--	--	--	--	--
BL-2	60	12/10/02	<50	<2	<50	<5	<5	9		6.3	<5	<5	16	<5	<5		<10	<5	<50	<2	<50	<10	<5	390	<2	<5	<5	<5	<5	<5	610	<2	<2	--	--	--	--	--
BL-3	5	12/10/02	--	--	--	--	--	--		--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	55
BL-3	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	160	<2	<5	<5	<5	<5	<5	240	<2	<2	--	--	--	--	--
BL-3	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.3	<5	<5		<10	<5	<50	<2	<50	<10	<5	280	<2	<5	<5	<5	<5	<5	370	<2	<2	--	--	--	--	--
BL-3	30	12/10/02	<50	<2	<50	<5	<5	11		5.9	<5	<5	29	<5	<5		<10	<5	<50	<2	<50	<10	<5	310	<2	<5	<5	<5	<5	<5	450	<2	<2	--	--	--	--	--
BL-3	40	12/10/02	<50	<2	<50	<5	<5	7.8		7	<5	<5	20	<5	<5		<10	<5	<50	<2	<50	<10	<5	340	<2	<5	<5	<5	<5	<5	390	<2	<2	--	--	ND	<100	--
BL-3	50	12/10/02	<50	5.8	<50	<5	<5	27		11	6.9	<5	57	<5	<5		<10	<5	<50	<2	53	<10	<5	860	<2	<5	<5	<5	<5	<5	1800	<2	<2	--	--	--	--	--
BL-3	60	12/10/02	<50	5.2	<50	<5	<5	26		12	7.5	6.8	53	<5	<5		<10	<5	<50	<2	100	<10	<5	370	<2	<5	<5	<5	<5	<5	700	<2	<2	--	--	--	--	--
BL-4	5	12/10/02	--	--	--	--	--	--		--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5
BL-4	10	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	65	<2	<2	--	--	--	--	--
BL-4	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	35	<2	<5	<5	<5	<5	<5	33	<2	<2	--	--	--	--	--
BL-4	30	12/10/02	<50	3.4	<50	<5	<5	17		5.9	<5	<5	34	<5	<5		<10	<5	<50	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	280	<2	<2	--	--	--	--	--
BL-4	40	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	20	<5	<5		<10	<5	<50	<2	67	<10	<5	200	<2	<5	<5	<5	<5	<5	180	<2	<2	--	--	ND	<100	--
BL-4	45	12/10/02	<50	<2	<50	<5	<5	5.9		<5	<5	<5	24	<5	<5		<10	<5	<50	<2	<5	<10	<5	280	<2	<5	<5	<5	<5	<5	210	<2	<2	--	--	--	--	--
BL-4	50	12/10/02	<50	2.1	<50	<5	<5	19		18	12	11	60	<5	<5		<10	<5	<50	<2	140	<10	<5	890	<2	<5	<5	<5	<5	<5	1000	<2	<2	--	--	--	--	--
BL-4	60	12/10/02	<50	<2	<50	<5	<5	9.3		<5	<5	<5	32	<5	<5		<10	<5	<50	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	710	<2	<2	--	--	--	--	--

PACCAR 03634

Table A-1
Summary of
Soil Boring Analytical Data

Analyte

VOCs by EPA Method 8260B/5035 in ug/kg

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOC's by EPA Method 8270 (ug/kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-5	0.5	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	260	<2	<5	<5	<5	<5	<5	65	<2	<2	--	--	--	--	--
BL-5	35	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	6.7	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	5.2	<2	<2	--	--	ND	<100	--
BL-5	55	12/16/02	<50	<2	<50	<5	<5	25		<5	<5	<5	450	<5	<5		<10	<5	<50	<2	<50	<10	<5	520	<2	<5	<5	<5	<5	<5	850	<2	<2	--	--	--	--	--
BL-6**	4	06/21/04	--	<1	--	<1	1200	<1		<1	--	--	--	--	<1		910***	840	--	7700***	<1	6000***	<1	3900	7200***	71	--	<1	35600***	16500***	490	63500*** (Total)		<1	--	--	--	--
BL-6	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.4	<5	<5		<10	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	12	<2	<2	--	--	--	--	--
BL-6	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	35	<5	<5		<10	<5	<50	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	21	<2	<2	--	--	ND	<100	--
BL-6	50	12/13/02	<50	<2	<50	<5	<5	34		<5	<5	<5	260	<5	<5		<10	<5	<50	<2	<50	13	<5	250	<2	<5	<5	<5	8.9	<5	520	<2	<2	--	--	--	--	--
BL-7	5	12/16/02	<50	<2	<50	15	16	<5		<5	<5	<5	<5	<5	<5		<10	150	<50	<2	<50	<10	280	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	ND	<100	64
BL-7	15	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-7	45	12/16/02	<50	<2	<50	<5	<5	9.7		<5	<5	<5	88	<5	<5		<10	<5	<50	<2	<50	<10	<5	68	<2	<5	<5	<5	<5	<5	260	<2	<2	--	--	--	--	--
BL-7	50	12/16/02	<50	<2	<50	<5	<5	18		<5	<5	<5	100	5.7	<5		<10	<5	<50	<2	<50	<10	<5	200	<2	<5	<5	<5	<5	<5	730	<2	<2	--	--	--	--	--
BL-8	0.5	12/13//02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-8	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-8	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	26	<2	<5	<5	<5	<5	<5	27	<2	<2	--	--	--	--	--
BL-9	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--		--	--
BL-9	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-9	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	8.3	<2	<2	--	--	--	--	--
BL-9	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	9.6	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	36	<2	<2	--	--	--	--	--
BL-9	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	<5	<5		<10	<5	<50	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	76	<2	<2	--	--	--	--	--
BL-10	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-10	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	6.2	<2	<2	--	--	--	--	--
BL-11	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	5.8	<2	<2	--	--	--	--	--
BL-11	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-11	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-11	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	6.7	<5		<10	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	51	<2	<2	--	--	--	--	--
BL-11	35	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	6.9	<2	<2	--	--	--	--	--
BL-11	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.1	10	6.2		<10	<5	<50	<2	<50	<10	<5	13	<2	<5	<5	<5	<5	<5	79	<2	<2	--	--	--	--	--
BL-11	60	12/17/02	<50	<2	<50	<5	<5	6.2		<5	<5	<5	72	<5	<5		<10	<5	<50	<2	<50	<10	<5	110	<2	<5	<5	<5	<5	<5	430	<2	<2	--	--	--	--	--
BL-12	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	ND	<100	--
BL-12	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-12	20	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.9	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	13	<2	<2	--	--	--	--	--
BL-12	30	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	32	<5	<5		<10	<5	<50	<2	<50	<10	<5	11	<2	<5	<5	<5	<5	<5	70	<2	<2	--	--	--	--	--
BL-12	40	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	7.7	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	75	<2	<2	--	--	--	--	--
BL-12	55	12/17/02	<50	<2	<50	<5	<5	19		<5	<5	<5	370	7.5	<5		<10	<5	<50	<2	<50	<10	<5	490	<2	<5	<5	<5	<5	<5	1300	<2	<2	--	--	--	--	--
BL-12	60DUP	12/17/02	<50	<2	<50	<5	<5	23		<5	<5	<5	380	10	<5		<10	<5	<50	<2	<50	<10	<5	720	<2	<5	<5	<5	<5	<5	2200	<2	<2	--	--	--	--	--

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Table A-1
Summary of
Soil Boring Analytical Data

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOCs by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
			Analyte																																			
			VOCs by EPA Method 8260B/5035 in ug/kg																																			
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-13	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-13	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	16	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	45	<2	<2	--	--	--	--	--
BL-13	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-14	5	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	8.1	<2	<2	--	--	--	--	--
BL-14	10	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-14	20	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	<5	<5		<10	<5	<50	<2	<50	<10	<5	8.9	<2	<5	<5	<5	<5	<5	47	<2	<2	--	--	--	--	--
BL-14	30	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-14	40	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	16	<2	<2	--	--	--	--	--
BL-14	50	12/18/02	<50	<2	<50	<5	<5	8.3		<5	<5	<5	92	21	<5		<10	<5	<50	<2	<50	<10	<5	77	<2	<5	<5	<5	<5	<5	220	<2	<2	--	--	--	--	--
BL-15	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-15	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-15	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<2	--	--	--	--	--
BL-15	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	7.8		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	12	<5	<5	6.1	<2	<5	--	--	--	--	--
BL-15	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	6.2		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-15	50	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	6.1	<5	130	290		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	120	<5	<5	24	<2	<5	--	--	--	--	--
BL-15	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	240	380		<10	<5	<50	<2	<50	<10	<5	9.1	<2	<5	<5	66	<5	<5	37	<2	<5	--	--	--	--	--
BL-16	0.5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	69	<2	<5	<5	<5	<5	<5	34	<2	<5	--	--	--	--	--
BL-16	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	19	<2	<5	--	--	--	--	<5
BL-16	10	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5.1	<5	<5		<10	<5	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	34	<2	<5	--	--	--	--	--
BL-16	20	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	29	<2	<5	--	--	--	--	--
BL-16	30	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	8.6	<2	<5	--	--	ND	<100	--
BL-16	40	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	7.4	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-16	50	12/11/02	<50	<2	<50	<5	<5	6.1		<5	<5	<5	20	<5	<5		<10	<5	<50	<2	<50	<10	<5	320	<2	<5	<5	<5	<5	<5	470	<2	<5	--	--	--	--	--
BL-17	5	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-17	10	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	8.1	<2	<5	<5	<5	<5	<5	9.9	<2	<5	--	--	--	--	--
BL-17	10DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	5.9	<2	<5	--	--	--	--	--
BL-17	20	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	20	<2	<5	--	--	--	--	--
BL-17	20DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	33	<2	<5	<5	<5	<5	<5	43	<2	<5	--	--	--	--	--
BL-17	30	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	31	<2	<5	<5	<5	<5	<5	50	<2	<5	--	--	--	--	--
BL-17	30DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	48	<2	<5	--	--	--	--	--
BL-17	40	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-18	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	29	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-18	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-18	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-18	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	66	<5	<5		<10	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	25	<2	<5	--	--	--	--	--
BL-18	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	180	<5	<5		<10	<5	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	53	<2	<5	--	--	ND	<100	--
BL-18	45	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-18	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	50	<5	<5		<10	<5	<50	<2	<50	<10	<5	13	<2	<5	<5	<5	<5	<5	29	<2	<5	--	--	--	--	--

PACCAR 03636

Table A-1
Summary of
Soil Boring Analytical Data

Analyte

VOCs by EPA Method 8260B/5035 in ug/kg

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-19	0.5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	270	<2	<5	<5	<5	<5	<5	38	<2	<5	--	--	--	--	--
BL-19	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	14	<2	<5	--	--	--	--	--
BL-19	15	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	7.1	<5	<5		<10	<5	<50	<2	<50	<10	<5	96	<2	<5	<5	<5	<5	<5	48	<2	<5	--	--	--	--	--
BL-19	25	12/11/02	<50	<2	<50	<5	<5	11		<5	<5	<5	43	<5	<5		<10	<5	<50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	200	<2	<5	--	--	--	--	--
BL-19	35	12/11/02	<50	<2	<50	<5	<5	12		<5	<5	<5	74	<5	<5		<10	<5	<50	<2	<50	<10	<5	540	<2	<5	<5	<5	<5	<5	310	<2	<5	--	--	--	--	--
BL-19	45	12/11/02	<50	<2	<50	<5	<5	19		<5	<5	<5	110	<5	<5		<10	<5	<50	<2	<50	<10	<5	410	<2	<5	8.3	<5	<5	<5	520	<2	<5	--	--	ND	--	--
BL-19	55	12/11/02	<50	<2	<50	<5	<5	21		<5	<5	<5	130	<5	<5		<10	<5	<50	<2	<50	<10	<5	820	<2	<5	<5	<5	<5	<5	890	<2	<5	--	--	--	--	--
BL-20	0.5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50	<2	<50	<10	<5	18	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-20	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8.2	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-20	10	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	36	<5	<5		<10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<2	<5	--	--	--	--	--
BL-20	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	330	<5	<5		<10	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	38	<2	<5	--	--	--	--	--
BL-20	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	270	<5	<5		<10	<5	<50	<2	<50	<10	<5	57	<2	<5	<5	<5	<5	<5	35	<2	<5	--	--	ND	<100	--
BL-20	50	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1400	<5	<5		<10	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	380	<2	<5	--	--	--	--	--
BL-20	55	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1000	<5	<5		<10	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	420	<2	<5	--	--	--	--	--
BL-21	5	04/13/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.3	<4.0	<4.0	<4.0	<8.0	--	--	--
BL-21	10	04/13/04	<45	<4.5	<45	<4.5	<4.5	<4.5		<4.5	<4.5	<4.5	<4.5	<4.5	<4.5		<4.5	<4.5	<45	<4.5	<4.5	<4.5	<4.5	4.9	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	11	<4.5	<4.5	<4.5	<9.1	--	--	--
BL-21	15	04/13/04	<44	<4.4	<44	<4.4	<4.4	<4.4		<4.4	<4.4	<4.4	<4.4	<4.4	<4.4		<4.4	<4.4	<44	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	11	<4.4	<4.4	<4.4	<8.8	--	--	--
BL-21	20	04/13/04	<48	<4.8	<48	<4.8	<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8		<4.8	<4.8	<48	<4.8	<4.8	<4.8	<4.8	5.3	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	12	<4.8	<4.8	<4.8	<9.6	--	--	--
BL-21	25	04/13/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	<3.9	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	16	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	47	<3.9	<3.9	<3.9	<7.9	--	--	--
BL-21	30	04/13/04	<47	<4.7	<47	<4.7	<4.7	<4.7		<4.7	<4.7	<4.7	<4.7	<4.7	<4.7		<4.7	<4.7	<47	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<9.4	--	--	--
BL-21	35	04/13/04	<52	<5.2	<52	<5.2	<5.2	<5.2		<5.2	<5.2	<5.2	<5.2	<5.2	<5.2		<5.2	<5.2	<52	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<5.2	<10	--	--	--
BL-21	40	04/13/04	<51	<5.1	<51	<5.1	<5.1	<5.1		<5.1	<5.1	<5.1	<5.1	<5.1	<5.1		<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	--	--	--
BL-21	45	04/13/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	4.7	10	5.3		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	75	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	410	<4.3	<4.3	5.3	<8.6	--	--	--
BL-21	50	04/13/04	<64	<6.4	<64	<6.4	<6.4	<6.4		<6.4	<6.4	<6.4	<6.4	<6.4	<6.4		<6.4	<6.4	<64	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	<6.4	12	<6.4	<6.4	<6.4	<13	--	--	--
BL-21	55	04/13/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	6.5	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	56	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	160	<4.0	<4.0	<4.0	<8.0	--	--	--
BL-22	5	04/14/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	<3.8	<3.8		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<7.7	--	--	--
BL-22	10	04/14/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	<3.9	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.7	--	--	--
BL-22	15	04/14/04	<37	<3.7	<37	<3.7	<3.7	<3.7		<3.7	<3.7	<3.7	<3.7	<3.7	<3.7		<3.7	<3.7	<37	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<7.4	--	--	--
BL-22	20	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<8.1	--	--	--
BL-22	25	04/14/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	<3.9	6.9	5.8		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	9.1	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	40	<3.9	<3.9	5.8	<7.8	--	--	--
BL-22	30	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	4.5	9.7	8.4		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	13	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	58	<4.0	<4.0	8.4	<7.9	--	--	--
BL-22	35	04/14/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	8.9	7.8		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	12	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	53	<3.8	<3.8	7.8	<7.6	--	--	--
BL-22	40	04/14/04	<42	<4.2	<42	<4.2	<4.2	<4.2		<4.2	<4.2	<4.2	<4.2	<4.2	<4.2		<4.2	<4.2	<42	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	9.4	<4.2	<4.2	<4.2	<8.3	--	--	--
BL-22	45	04/14/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	<3.6	<3.8		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	5.3	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	28	<3.8	<3.8	<3.8	<7.6	--	--	--
BL-22	50	04/14/04	<37	<3.7	<37	<3.7	<3.7	<3.7		<3.7	<3.7	<3.7	9.2	23	13		<3.7	<3.7	<37	<3.7	<3.7	<3.7	<3.7	28	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	140	<3.7	<3.7	13	<7.4	--	--	--
BL-22	55	04/14/04	<42	<4.2	<42	<4.2	<4.2	<6.4		<4.2	<4.2	<4.2	20	63	38		<4.2	<4.2	<42	<4.2	<4.2	<4.2	<4.2	81	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	370	<4.2	<4.2	38	<8.3	--	--	--
BL-23	5	04/14/04	<41	<4.1	<41	<4.1	<4.1	<4.1		<4.1	<4.1	<4.1	<4.1	<4.1	<4.1		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	18	<4.1	<4.1	<4.1	<4.1	5.4	<4.1	18	4.3	<4.1	<4.1	<8.1	--	--	--

Table A-1
Summary of
Soil Boring Analytical Data

Analyte

VOCs by EPA Method 8260B/5035 in ug/kg

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	O-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-23	10	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	5.9	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.4	<4.0	<4.0	<4.0	<7.9	–	–	–
BL-23	15	04/14/04	<44	<4.4	<44	<4.4	<4.4	<4.4		<4.4	<4.4	<4.4	<4.4	<4.4	7.3		<4.4	<4.4	<44	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	7.6	<4.4	<4.4	7.3	<8.8	–	–	–
BL-23	20	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0.0	<4.0	<7.9	–	–	–
BL-23	25	04/14/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	6.3	14		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	3.9	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	13	<3.8	<3.8	14	<7.6	–	–	–
BL-23	30	04/14/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	<4.3	18	32		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	8.6	<4.3	<4.3	<4.3	8.9	<4.3	<4.3	27	<4.3	<4.3	32	<8.6	–	–	–
BL-23	35	04/14/04	<250*	<250*	<250*	<250*	<250*	<250*		<250*	<250*	<250*	<250*	<250*	<250*		<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*			
BL-23	40	04/14/04	<35	<3.5	<35	<3.5	<3.5	<3.5		<3.5	<3.5	<3.5	<3.5	5.9	14		<3.5	<3.5	<35	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	<3.5	7.6	<3.5	<3.5	14	<6.9	–	–	–
BL-23	45	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	39	66		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	9.3	<4.0	<4.0	<4.0	8.8	<4.0	<4.0	32	<4.0	<4.0	66	<8.1	–	–	–
BL-23	50	04/14/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	17	36		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	3.9	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	16	<3.8	<3.8	36	<7.6	–	–	–
BL-23	55	04/14/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	<4.3	140	170		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	15	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	55	<4.3	<4.3	170	<8.6	–	–	–
BL-24	5	04/13/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	<3.9	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	6	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	<7.8	–	–	–
BL-24	10	04/13/04	<41	<4.1	<41	<4.1	<4.1	<4.1		<4.1	<4.1	<4.1	<4.1	<4.1	<4.1		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	<8.2	–	–	–
BL-24	15	04/13/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8.3	<4.0	<4.0	<4.0	<8.0	–	–	–
BL-24	20	04/13/04	<36	<3.6	<36	<3.6	<3.6	<3.6		<3.6	<3.6	<3.6	<3.6	<3.6	<3.6		<3.6	<3.6	<36	<3.6	<3.6	<3.6	<3.6	5.4	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	13	<3.6	<3.6	<3.6	<7.2	–	–	–
BL-24	25	04/13/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	5.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	14	<4.0	<4.0	<4.0	<8.0	–	–	–
BL-24	30	04/13/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	6.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	12	<4.0	<4.0	<4.0	<7.9	–	–	–
BL-24	35	04/13/04	<53	<5.3	<53	<5.3	<5.3	<5.3		<5.3	<5.3	<5.3	<5.3	<5.3	<5.3		<5.3	<5.3	<53	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<5.3	<11	–	–	–
BL-24	40	04/13/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	<4.3	4.3	<4.3		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	11	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	27	<4.3	<4.3	<4.3	<8.5	–	–	–
BL-24	45	04/13/04	<49	<4.9	<49	<4.9	<4.9	<4.9		<4.9	<4.9	<4.9	<4.9	<4.9	<4.9		<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	–	–	–
BL-24	50	04/13/04	<41	<4.1	<41	<4.1	<4.1	<4.1		<4.1	<4.1	<4.1	<4.1	14	9.1		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	37	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	110	<4.1	<4.1	9.1	<8.2	–	–	–
BL-24	55	04/13/04	<49	<4.9	<49	<4.9	<4.9	<4.9		<4.9	<4.9	<4.9	<4.9	5.1	<4.9		<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	14	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	44	<4.9	<4.9	<4.9	<9.7	–	–	–
BL-25	10	04/14/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	<4.3	<4.3	4.6		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	6.1	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	6.3	<4.3	<4.3	4.6	<8.6	–	–	–
BL-25	15	04/14/04	<42	<4.2	<42	<4.2	<4.2	<4.2		<4.2	<4.2	<4.2	<4.2	<4.2	<4.2		<4.2	<4.2	<42	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<8.3	–	–	–
BL-25	20	04/14/04	<49	<4.9	<49	<4.9	<4.9	<4.9		<4.9	<4.9	<4.9	<4.9	<4.9	<4.9		<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	–	–	–
BL-25	25	04/14/04	<43	<4.3	<43	<4.3	<4.3	<4.3		<4.3	<4.3	<4.3	<4.3	6.7	<4.3		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	7.4	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	<8.6	–	–	–
BL-25	30	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	7	4.2		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	9.3	<4.0	<4.0	<4.0	<4.0	<4.0	4.2	<8.0	–	–	–
BL-25	35	04/14/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	11	8.8		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	<4.0	<4.0	14	<4.0	<4.0	4.9	<4.0	<4.0	8.8	<8.0	–	–	–
BL-25	45	04/14/04	<41	<4.1	<41	<4.1	<4.1	<4.1		<4.1	<4.1	<4.1	<4.1	37	27		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	7.4	<4.1	<4.1	<4.1	13	<4.1	<4.1	11	<4.1	<4.1	27	<8.3	–	–	–
BL-25	50	04/15/04	<38	<3.8	<38	<3.8	<3.8	<3.8		<3.8	<3.8	<3.8	<3.8	4.2	5.5		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	5.5	<7.5	–	–	–
BL-25	55	04/15/04	<44	<4.4	<44	<4.4	<4.4	<4.4		<4.4	<4.4	<4.4	<4.4	66	40		<4.4	<4.4	<44	<4.4	<4.4	<4.4	<4.4	9.1	<4.4	<4.4	<4.4	10	<4.4	<4.4	15	<4.4	<4.4	40	<8.8	–	–	–
BL-26	5	04/12/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	<3.9	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	35	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	42	<3.9	<3.9	<3.9	<7.9	–	–	–
BL-26	10	04/12/04	<39	<3.9	<39	<3.9	<3.9	7.5		<3.9	<3.9	<3.9	14	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	150	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	150	<3.9	<3.9	<3.9	<7.9	–	–	–
BL-26	15	04/12/04	<39	<3.9	<39	<3.9	<3.9	52		<3.9	<3.9	<3.9	8.9	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	100	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	130	<3.9	<3.9	<3.9	<7.8	–	–	–
BL-26	20	04/12/04	<49	<4.9	<49	<4.9	<4.9	17		15	7.5	5.8	39	<4.9	<4.9		<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	940	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	860	<4.9	<4.9	<4.9	<9.7	–	–	–
BL-26	25	04/12/04	<41	<4.1	<41	<4.1	<4.1	18		18	11	7.4	48	<4.1	<4.1		<4.1	<4.1	<41	<4.1	8.6	<4.1	<4.1	1300	<4.1	<4.1	4.9	<4.1	<4.1	<4.1	1200	<4.1	<4.1	<4.1	<8.3	–	–	–
BL-26	30	04/12/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	7.6	7.6	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	92	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	91	<3.9	<3.9	<3.9	<7.8	–	–	–
BL-26	35	04/12/04	<41	<4.1	<41	<4.1	<4.1	13		13	8.4	6.1	36	<4.1	<4.1		<4.1	<4.1	<41	<4.1	13	<4.1	<4.1	1300	<4.1	<4.1	5.2	<4.1	<4.1	<4.1	1200	<4.1	<4.1	<4.1	<8.1	–	–	–
BL-26	40	04/12/04	<250*	<250*	<250*	<250*	<250*	<250*		<250*	<250*	<250*	<250*	<250*	<250*		<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*	<250*			

Table A-1
Summary of
Soil Boring Analytical Data

Analyte

VOCs by EPA Method 8260B/5035 in ug/kg

	Sample Depth in Feet	Date Sampled	Acetone	Benzene	2-Butanone (MEK)	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform PRG	Chloroform CAL-Modified PRG	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	4-Isopropyltoluene	Isopropylbenzene (Cumene)	4-Methyl-2-pentanone (MIBK)	Ethylbenzene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethane (Tetrachloroethylene)	Toluene	tert-Butylbenzene	1,1,2-Trichloroethane	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	m,p-Xylene	o-Xylene	1,1-Dichloroethane	1,2-Dibromo-3-chloropropane	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1,600,000	600	7,300,000	240,000	220,000	3,600	940	370,000	3,400	2,280	43,000	120,000	510,000	2,800	NA	570,000	790,000	8,900	9,100	56,000	240,000	1,500	520,000	390,000	730	1,200,000	52,000	21,000	53	270,000(1)	270,000(1)	510,000	450	NA	220	
	Industrial Soil		6,000,000	1,300	27,000,000	240,000	220,000	12,000	2,000	370,000	7,900	600	150,000	410,000	1,700,000	6,000	NA	2,000,000	2,800,000	20,000	21,000	190,000	240,000	3,400	520,000	390,000	1,600	1,200,000	170,000	70,000	110	420,000(1)	420,000(1)	1,700,000	2,000	NA	740	NA
BL-26	45	04/12/04	<41	<4.1	<41	<4.1	<4.1	14		25	12	14	44	<4.1	<4.1		<4.1	<4.1	<41	<4.1	110	<4.1	<4.1	370	<4.1	<4.1	5.8	<4.1	<4.1	<4.1	510	<4.1	4.5	<4.1	<8.2	--	--	--
BL-26	50	04/12/04	<38	4.9	<38	<3.8	<3.8	33		33	16	31	120	<3.8	<3.8		<3.8	<3.8	<38	<3.8	710	<3.8	<3.8	3100	<3.8	<3.8	7.9	<3.8	<3.8	<3.8	3700	<3.8	<3.8	<3.8	<7.5	--	--	--
BL-26	55	04/12/04	<41	8.1	<41	<4.1	<4.1	40		26	15	14	150	6.6	5.7		<4.1	<4.1	<41	<4.1	6.3	<4.1	<4.1	4900	<4.1	<4.1	5.2	<4.1	<4.1	<4.1	7000	<4.1	<4.1	5.7	<8.1	--	--	--
BL-27	5	04/12/04	<40	<4.0	<40	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	77	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	65	<4.0	<4.0	<4.0	<8.0	--	--	--
BL-27	10	04/12/04	<39	<3.9	<39	<3.9	<3.9	<3.9		<3.9	<3.9	<3.9	7.1	<3.9	<3.9		<3.9	<3.9	<39	<3.9	<3.9	<3.9	<3.9	120	<3.9	<3.9	<3.9	<3.9	<3.9	<3.9	140	<3.9	<3.9	<3.9	<7.7	--	--	--
BL-27	15	04/12/04	<41	<4.1	<41	<4.1	<4.1	<4.1		<4.1	<4.1	<4.1	6.7	<4.1	<4.1		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	100	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	130	<4.1	<4.1	<4.1	<8.1	--	--	--
BL-27	20	04/12/04	<50	<5.0	<50	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	7.8	<5.0	<5.0		<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	110	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	130	<5.0	<5.0	<5.0	<10	--	--	--
BL-27	25	04/13/04	<44	<4.4	<44	<4.4	<4.4	7.8		<4.4	<4.4	<4.4	37	<4.4	<4.4		<4.4	<4.4	<44	<4.4	<4.4	<4.4	<4.4	620	<4.4	<4.4	<4.4	<4.4	<4.4	<4.4	690	<4.4	<4.4	<4.4	<8.9	--	--	--
BL-27	30	04/13/04	<45	<4.5	<45	<4.5	<4.5	4.9		<4.5	<4.5	<4.5	19	<4.5	<4.5		<4.5	<4.5	<45	<4.5	<4.5	<4.5	<4.5	220	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5	270	<4.5	<4.5	<4.5	<9.1	--	--	--
BL-27	35	04/13/04	<41	<4.1	<41	<4.1	<4.1	8.8		<4.1	<4.1	<4.1	43	<4.1	<4.1		<4.1	<4.1	<41	<4.1	<4.1	<4.1	<4.1	690	<4.1	<4.1	<4.1	<4.1	<4.1	<4.1	810	<4.1	<4.1	<4.5	<8.3	--	--	--
BL-27	40	04/13/04	<43	<4.3	<43	<4.3	<4.3	4.4		<4.3	<4.3	<4.3	17	<4.3	<4.3		<4.3	<4.3	<43	<4.3	<4.3	<4.3	<4.3	130	<4.3	<4.3	<4.3	<4.3	<4.3	<4.3	190	<4.3	<4.3	<4.3	<8.5	--	--	--
BL-27	45	04/13/04	<40	<4.0	<40	<4.0	<4.0	19		6.5	5.1	<4.0	100	<4.0	<4.0		<4.0	<4.0	<40	<4.0	<4.0	<4.0	<4.0	1600	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	1800	<4.0	<4.0	<4.0	<8.0	--	--	--
BL-27	50	04/13/04	<36	<3.6	<36	<3.6	<3.6	6.6		<3.6	<3.6	<3.6	35	<3.6	<3.6		<3.6	<3.6	<36	<3.6	<3.6	<3.6	<3.6	1700	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	2400	<3.6	<3.6	<3.6	<7.2	--	--	--
BL-27	55	04/13/04	<38	<3.8	<38	<3.8	<3.8	14		<3.8	<3.8	<3.8	78	<3.8	<3.8		<3.8	<3.8	<38	<3.8	<3.8	<3.8	<3.8	1800	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	2500	<3.8	<3.8	<3.8	<7.6	--	--	--

Notes

< - Not Detected above the practical quantitation limit (PQL)
-- = Sample not analyzed for particular compound
Shaded and bolded values indicate concentration above industrial PRGs
NA = not applicable
(1) - PRG represents total xylenes
* - elevated reporting limit: the QC criteria was not met for the sodium bisulfate-preserved vials. Results were reported from the methanol vials, resulting in elevated reporting limits.
** Additional data for BL-06 at 4 feet reflects most current data from the south wall face after the hot spot remedial action work was performed in June 2004
[redacted]
** These sample were first diluted to get accurate concentration

VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram

PACCAR 03639

TABLE A-2
Summary of Metal Analytes in Select Shallow Soil Samples
December 2002

	Sample Depth in Feet	Date Sampled	Analyte													
			Title 22 Metals by US EPA Method 6010B/7000 Series in mg/kg													
			Arsenic (Cancer endpoint)	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Industrial Soil		1.6	67000	1,900	450	1,900	41,000	750	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-1	0.5	12/10/02	**4.2**	120	<1	17	8.6	23	4.4	--	<5	10	<0.5	1.1	37	53
BL-2	0.5	12/10/02	**2.2**	98	<1	16	10	15	5	--	<5	7.3	<0.5	<1	35	37
BL-8	0.5	12/13//02	**1.9**	110	<1	15	7.9	16	4.9	--	<5	8.2	<0.5	<1	32	38
BL-16	0.5	12/11/02	**2.8**	91	--	20	12	21	5.6	**0.081**	<5	14	<0.5	<1	42	63
BL-18	0.5	12/12/02	**3.1**	110	1.1	25	9.6	17	6.7	--	<5	12	<0.5	1.1	51	62
BL-19	0.5	12/11/02	**2.1**	110	<1	16	10	16	5.1	--	<5	9.1	<0.5	<1	33	39
BL-20	0.5	12/12/02	**3**	130	1.1	24	9.9	19	6.4	--	<5	13	0.78	1.3	50	52

Notes:
-- indicates parameter not measured
< = Not detected at detection limit indicated
Bold value indicates concentration above PRG

PACCAR 03640

Table A.3
Summary of Soil Analytical Results from Cone Penetrometer Tests (CPT)
PACCAR, Torrance, CA
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH in Feet	DATE	Volatile Organic Compounds Detected by EPA Method 8260 in ug/kg											
				Chloroform	1,2-DCB	1,4-DCB	1,1-DCA	1,2-DCA	1,1-DCE	c-1, 2-DCE	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE
EPA Region IX PRGs for industrial soil				*12,000*	*370,000*	*7,900*	*1,700,000*	*600*	*410,000*	*150,000*	*21,000*	*3,400*	*1,200,000*	*1,600*	*110*
CPT-1	HC-CPT-1-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-1-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	5.6	<5	<5	<5
CPT-2	HC-CPT-2-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-2-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-3	HC-CPT-3-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-3-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	6.5	<50	25	<5	<5	98
CPT-4	HC-CPT-4-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	5.7
	HC-CPT-4-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-5	HC-CPT-5-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	7	<5	<5	7.1
	HC-CPT-5-SS-42'	42	5-Apr-00	<10	<10	<10	<10	<10	<10	<10	<100	2,200	<10	<10	**540**
CPT-6	HC-CPT-6-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	150	<50	22	<5	<5	58
	HC-CPT-6-SS-44'	44	5-Apr-00	<5	<5	<5	<5	<5	<5	68	<50	7.1	<5	<5	15
CPT-7	HC-CPT-7-SS-30'	30	10-Apr-00	<5	<5	<5	<5	<5	<5	32	<50	130	<5	<5	**130**
	HC-CPT-7-SS-50'	50	10-Apr-00	<5	<5	<5	<5	<5	<5	35	<50	82	<5	<5	98
CPT-8	HC-CPT-8-SS-30'	30	6-Apr-00	14	<5	<5	<5	6.2	<5	22	<50	200	<5	<5	**240**
	HC-CPT-8-SS-50'	50	6-Apr-00	14	11	5.4	<5	33	<5	36	310	470	<5	11	**730**
CPT-9	HC-CPT-9-SS-30'	30	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	6	<5	<5	11
	HC-CPT-9-SS-50'	50	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	12	<5	<5	23
CPT-10	HC-CPT-10-SS-33'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-10-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-11	HC-CPT-11-SS-30'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-11-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-12	HC-CPT-12-SS-30'	30	11-Apr-00	<5	<5	<5	<5	6.9	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-12-SS-50'	50	11-Apr-00	<5	<5	<5	170	8.4	68	<5	<50	<5	190	<5	14
CPT-13	HC-CPT-13-SS-30'	30	11-Apr-00	<5	<5	<5	20	8.2	13	<5	<50	<5	35	<5	<5
CPT-14	HC-CPT-14-SS-30'	30	11-Apr-00	<5	<5	<5	16	7.2	6.4	<5	<50	<5	36	<5	<5
	HC-CPT-14-SS-50'	50	11-Apr-00	<5	<5	<5	600	12	110	<5	<50	<5	500	<5	20

Notes:

1,2-DCB = 1,2-Dichlorobenzene; 1,4-DCB = 1,4-Dichlorobenzene; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;

c-1,2-DCE = *cis*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene

PRGs - Preliminary Remediation Goals (PRG values were obtained from the USEPA website: http://www.epa.gov/region09)

Bold value indicates concentration above PRG

APPENDIX C
BORING LOGS

Appendix C

Key to Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:
Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL Density	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY Consistency	Standard Penetration Resistance(N) in Blows/Foot	Approximate Shear Strength in TSF
Very loose	0 - 4	Very soft	0 - 2	<0.125
Loose	4 - 10	Soft	2 - 4	0.125 - 0.25
Medium dense	10 - 30	Medium stiff	4 - 8	0.25 - 0.5
Dense	30 - 50	Stiff	8 - 15	0.5 - 1.0
Very dense	>50	Very stiff	15 - 30	1.0 - 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

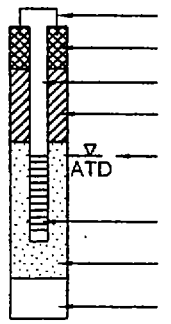
Minor Constituents	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Legends

Sampling Test Symbols

Boring Samples	Test Pit Samples
☒ Split Spoon	☒ Grab (Jar)
⧅ Shelby Tube	⧄ Bag
▥ Cuttings	⧅ Shelby Tube
◫ Core Run	
* No Sample Recovery	
P Tube Pushed, Not Driven	

Groundwater Observation Wells



- Monument
- Surface Seal
- Riser Pipe
- Bentonite
- Groundwater Level on Date or at Time of Drilling (ATD)
- Well Screen
- Sand Pack
- Native Material
- Groundwater Seepage (Test Pits)

Test Symbols

GS	Grain Size Classification
CN	Consolidation
UU	Unconsolidated Undrained Triaxial
CU	Consolidated Undrained Triaxial
CD	Consolidated Drained Triaxial
QU	Unconfined Compression
DS	Direct Shear
K	Permeability
PP	Pocket Penetrometer Approximate Compressive Strength in TSF
TV	Torvane Approximate Shear Strength in TSF
CBR	California Bearing Ratio
MD	Moisture Density Relationship
AL	Atterberg Limits

Water Content in Percent
Liquid Limit
Natural
Plastic Limit

PID	Photoionization Detector Reading
CA	Chemical Analysis
DT	*In Situ* Density Test
WOR	Weight of Rod
WOH	Weight of Hammer

HC Standards\Standard Report Figures\A-1's\A-1 Standard

HARTCROWSER

16171-00 *11/04*
Figure C-1

PACCAR 03653

Boring Log BL-21

Soil Descriptions
Approximater Ground Surface Elevation in Feet:

Depth in Feet

Stiff, moist, dark brown, silty CLAY.

Medium dense, moist, dark brown, silty SAND.

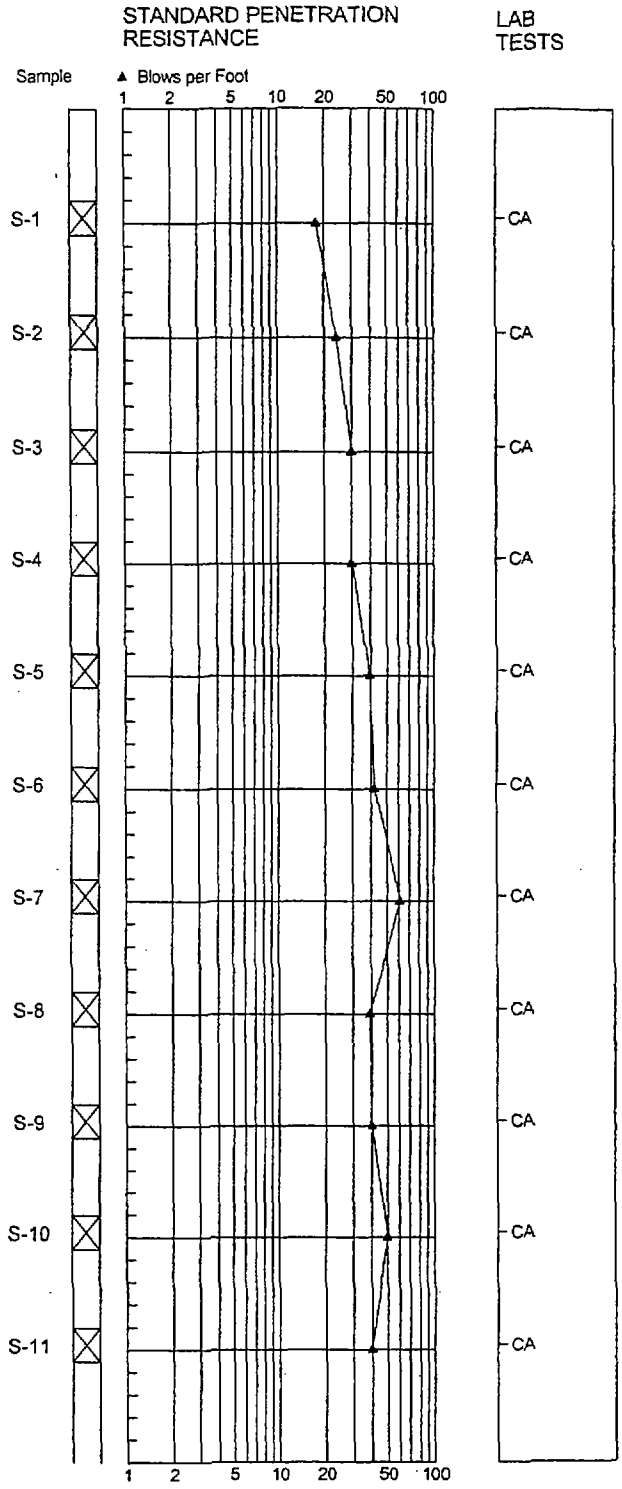
Dense, moist, dark grayish brown SAND.

Dense, moist, dark yellowish brown, silty SAND.

Dense, moist, dark olive brown SAND.

Bottom of Boring at 55.5 Feet.
Completed 04/13/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 *04/04*

Figure C-2

PACCAR 03654

Boring Log BL-22

Soil Descriptions
Approximater Ground Surface Elevation in Feet:

4 inches of Concrete over very stiff, dry, light brown SILT.

Very stiff to hard, moist, olive brown, sandy SILT.

Grading to dry SILT/CLAY.

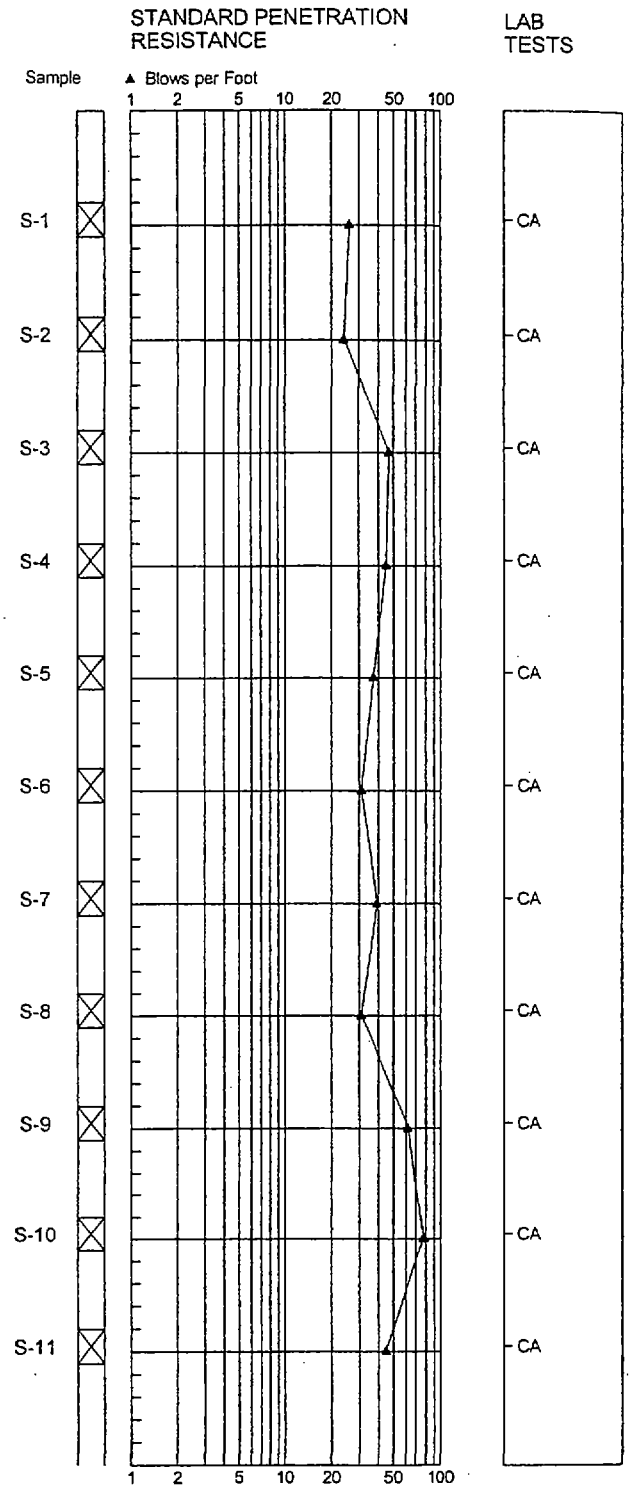
Dense, moist, light olive brown, fine SAND with shale.

Hard, moist, olive brown SILT.

Orange staining increasing with depth.

Bottom of Boring at 55.5 Feet.
Completed 04/13/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 *04/04*

Figure C-3

PACCAR 03655

Boring Log BL-23

Soil Descriptions
Approximater Ground Surface Elevation in Feet:

Depth in Feet

4 inches of Concrete over very stiff, moist, light brown, silty CLAY.

Stiff, moist, dark gray SILT.

Stiff, moist, light yellowish brown SILT.

Very stiff, moist, greenish gray to light brown SILT.

Hard, moist, dark grayish brown SILT.

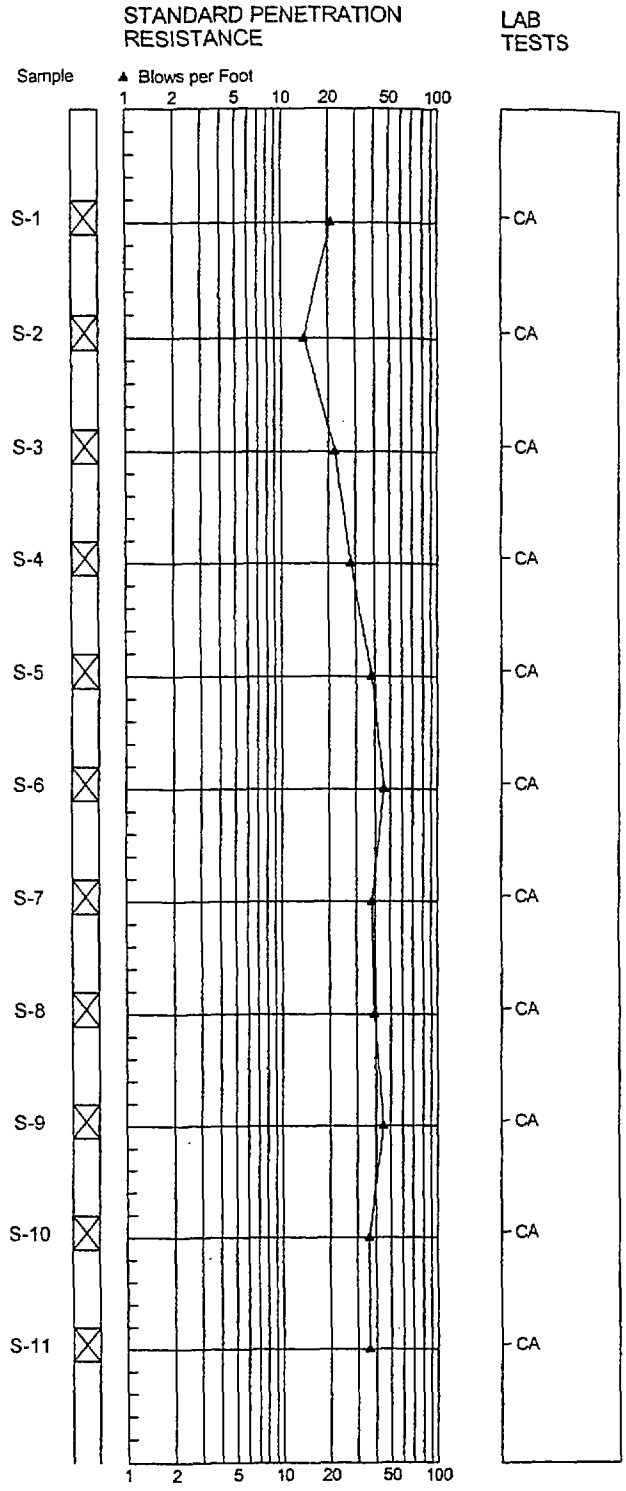
Grading olive brown.

Fine Sand lenses.

Orange staining.

Bottom of Boring at 55.5 Feet.
Completed 04/09/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 *04/04*

Figure C-4

PACCAR 03656

Boring Log BL-24

Soil Descriptions
Approximater Ground Surface Elevation in Feet:

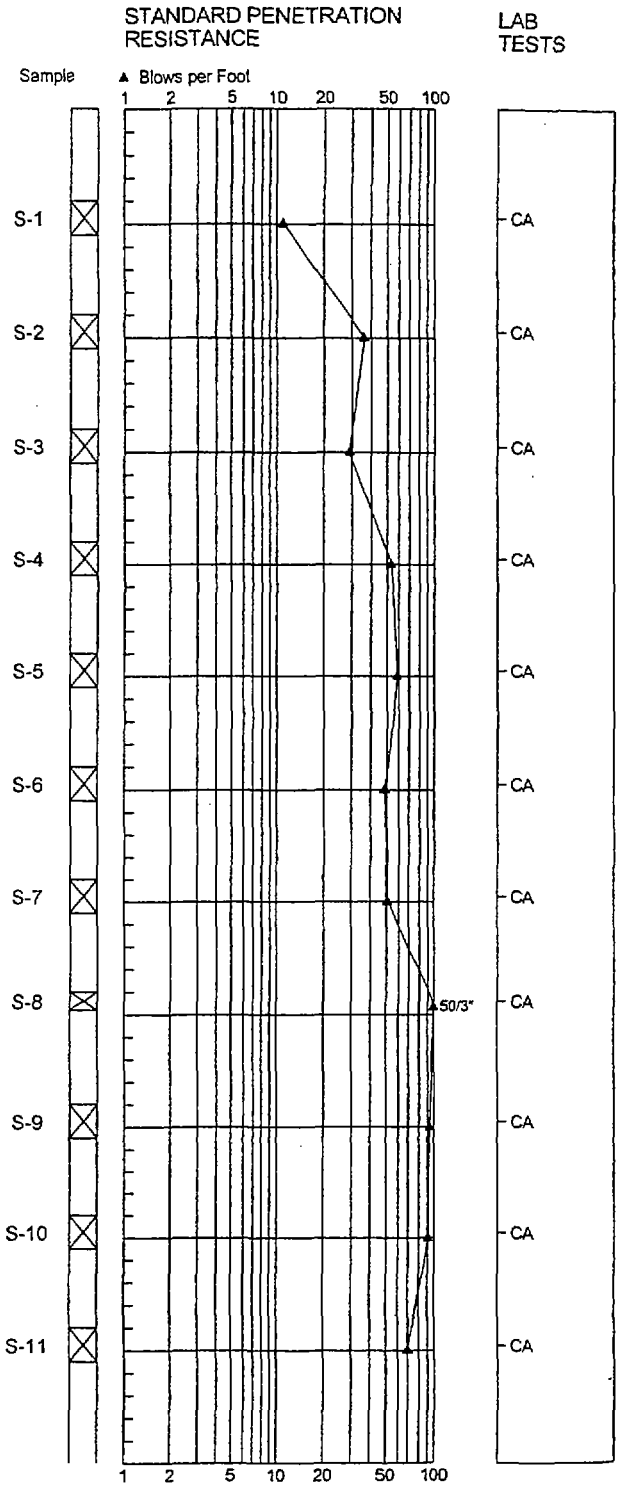
Depth in Feet

Medium dense to dense, moist, dark grayish brown, silty SAND.

Grading very dense.

Bottom of Boring at 55.5 Feet.
Completed 04/13/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 *04/04*

Figure C-5

PACCAR 03657

Boring Log BL-25

Soil Descriptions
Approximater Ground Surface Elevation in Feet:

4 inches of Concrete over 3.5 feet of Gravel Fill with 6-inch-diameter PVC pipe at a depth of 1 foot over 4 inches of Concrete (Former Clarifier Bottom?) over Gravel subbase.

Dense to very dense, moist to wet, gray-light brown, sandy GRAVEL to gravelly SAND.

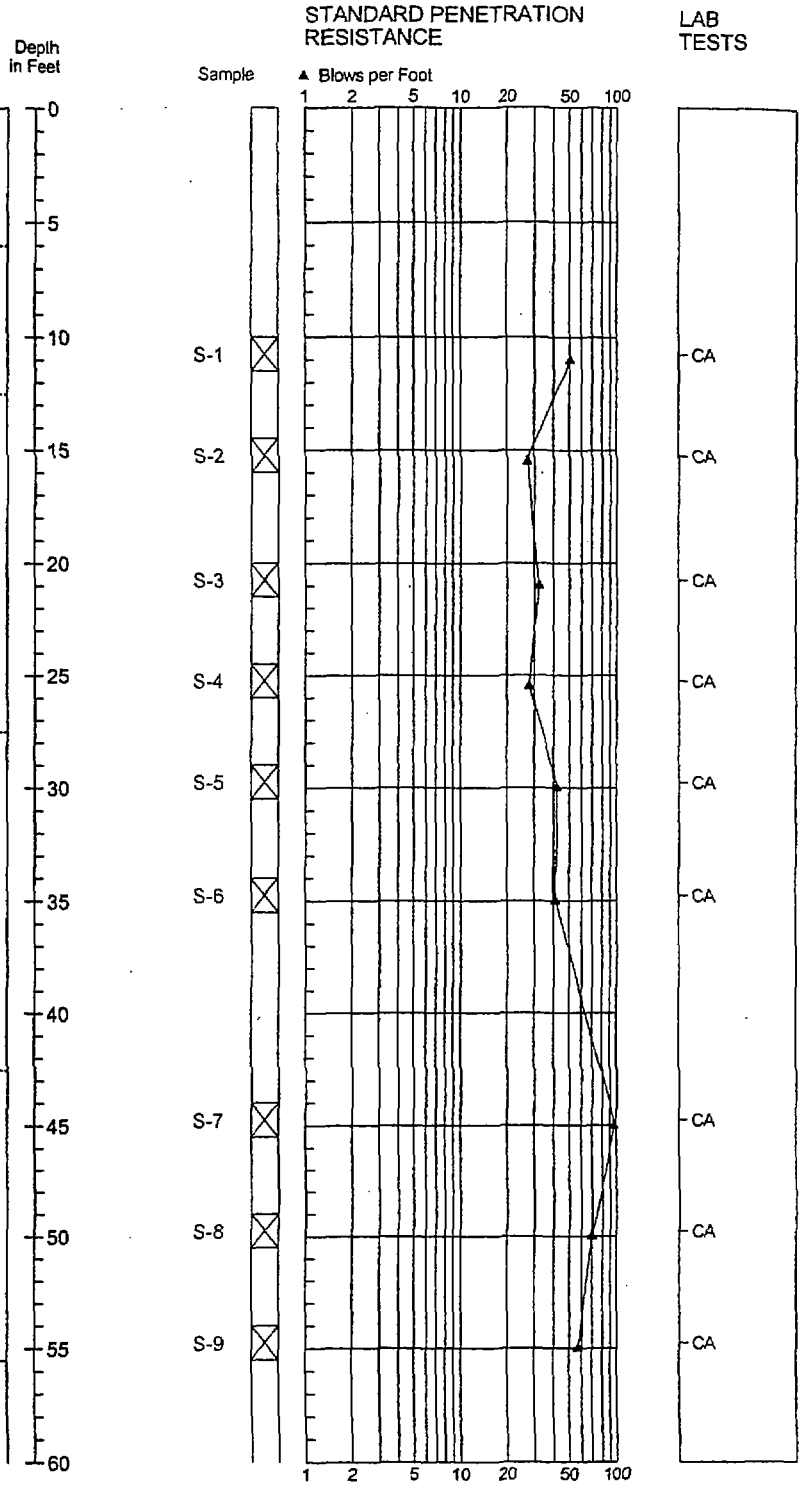
Very stiff, moist to wet, olive brown SILT.

Dense, moist, brown, silty SAND.

Very dense, moist, dark yellowish brown, silty SAND.

Bottom of Boring at 55.5 Feet.
Completed 04/09/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 04/04

Figure C-6

PACCAR 03658

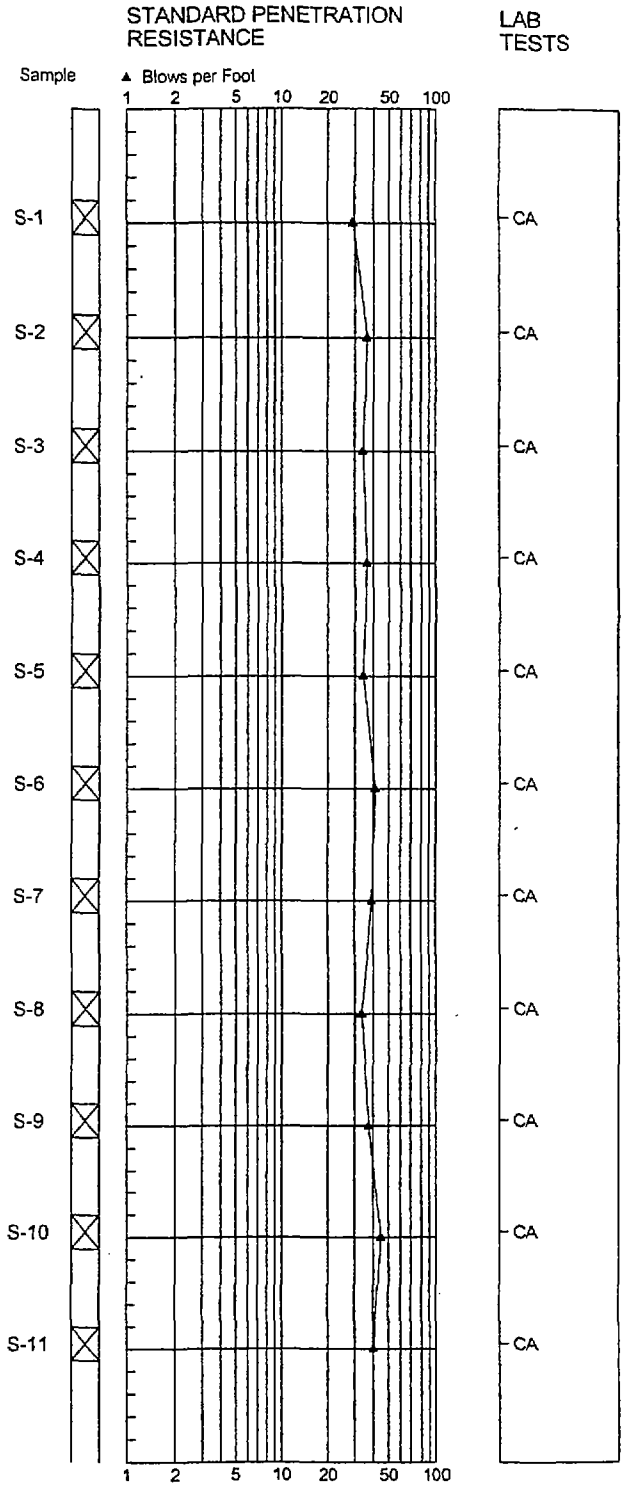
Boring Log BL-26

Northing (ft): 100
Easting (ft): 100

Soil Descriptions
Approximater Ground Surface Elevation in Feet: 35

Depth in Feet	Soil Description
0	Asphalt over very stiff, moist, light brown, silty CLAY.
5	
10	
15	Hard, moist, light brown to olive gray SILT.
20	Hard, dry, brown CLAY with red nodules.
25	Hard, moist, light brown to brown, silty CLAY.
30	Very dense, moist, white to light brown, fine SAND.
35	Very stiff to hard, moist, brown to olive gray, silty CLAY.
40	Very dense, moist, greenish gray, clayey, silty SAND.
45	Hard, moist, greenish gray, silty CLAY with some orange staining.
50	Coarse Gravel layer.
55	Some fine Sand.
60	Bottom of Boring at 55.5 Feet. Completed 04/08/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 1617100BL.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 04/04

Figure C-7

Boring Log BL-27

Northing (ft): 100
Easting (ft): 200

Soil Descriptions
Approximater Ground Surface Elevation in Feet: 35

Depth in Feet

Asphalt over stiff to very stiff, moist, light brown, silty CLAY.

Grading greenish gray.

Occasional gravelly.

Very dense, moist, light yellowish brown, fine SAND with scattered Gravel.

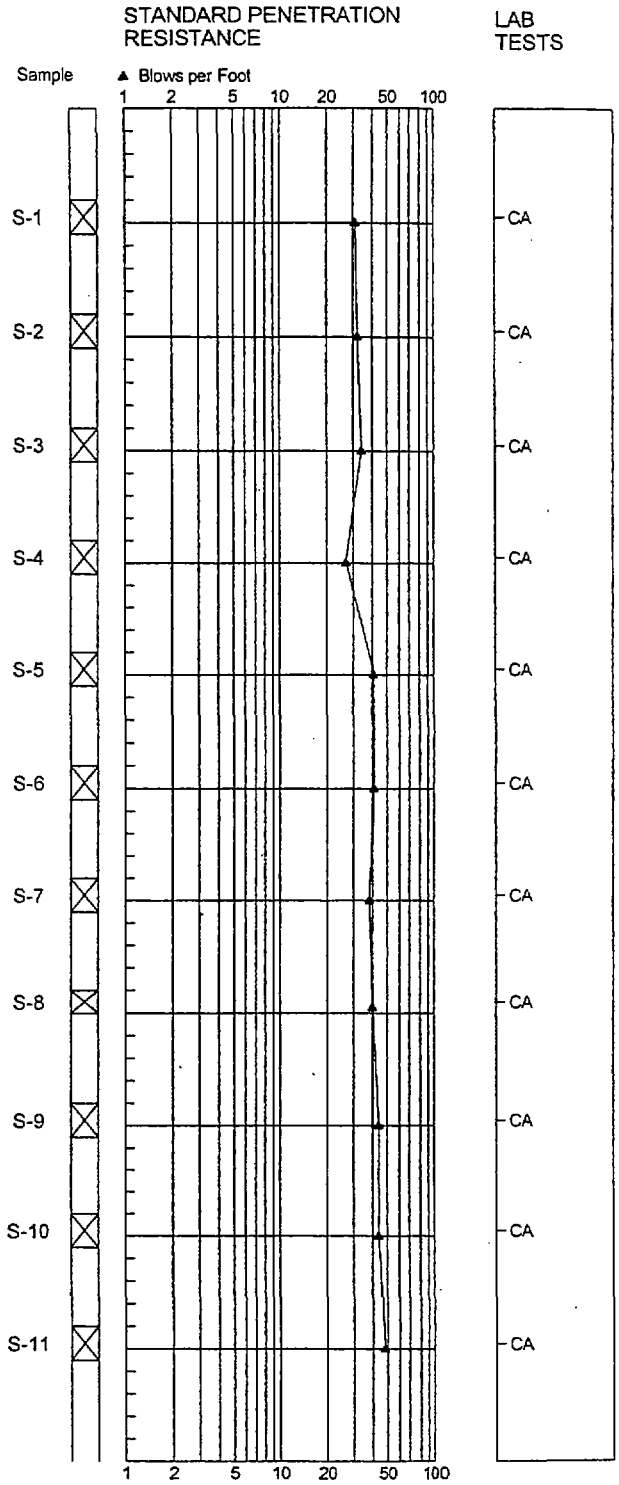
CLAY in lower portion of sample.
Very dense, moist, light brown, fine SAND with coarse gravelly Sand.

Hard, moist, olive brown to greenish gray, silty CLAY with rock shards.

Orange staining.

Bottom of Boring at 55.5 Feet.
Completed 04/08/04.

Note: Groundwater not encountered and no odor detected in soil samples.



BORING LOG 16171008L.GPJ HC_CORP.GDT 11/3/04

1. Refer to Figure B-1 for explanation of descriptions and symbols.
2. Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

HARTCROWSER

16171-00 *04/04*

Figure C-8

PACCAR 03660

APPENDIX D
ANALYTICAL LABORATORY REPORTS FOR BL-21 THROUGH BL-27
ADVANCED TECHNOLOGY LABORATORIES

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161
Lab Order:	068455

CASE NARRATIVE

Regenerated report to include Ketones, per client request.

Analytical Comments for Method 8260

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:25:00 AM
Lab ID:	068455-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.7		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
2-Butanone	ND	38		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
2-Hexanone	ND	38		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/15/2004
Acetone	ND	38		µg/Kg	1	4/15/2004
Benzene	ND	3.8		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/15/2004
Bromoform	ND	3.8		µg/Kg	1	4/15/2004
Bromomethane	ND	3.8		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
Chloroethane	ND	3.8		µg/Kg	1	4/15/2004
Chloroform	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:25:00 AM
Lab ID:	068455-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
Cyclohexanone	ND	38		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Naphthalene	ND	3.8		µg/Kg	1	4/15/2004
o-Xylene	ND	3.8		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Styrene	ND	3.8		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	3.8		µg/Kg	1	4/15/2004
Toluene	ND	3.8		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:31:00 AM
Lab ID:	068455-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.7		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
2-Butanone	ND	39		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/15/2004
2-Hexanone	ND	39		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/15/2004
Acetone	ND	39		µg/Kg	1	4/15/2004
Benzene	ND	3.9		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/15/2004
Bromoform	ND	3.9		µg/Kg	1	4/15/2004
Bromomethane	ND	3.9		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
Chloroethane	ND	3.9		µg/Kg	1	4/15/2004
Chloroform	ND	3.9		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:31:00 AM
Lab ID:	068455-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/15/2004
Cyclohexanone	ND	39		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Naphthalene	ND	3.9		µg/Kg	1	4/15/2004
o-Xylene	ND	3.9		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Styrene	ND	3.9		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	3.9		µg/Kg	1	4/15/2004
Toluene	ND	3.9		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/15/2004
Trichloroethene	ND	3.9		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:40:00 AM
Lab ID:	068455-003A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	3.7		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.7		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.4		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
2-Butanone	ND	37		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.7		µg/Kg	1	4/15/2004
2-Hexanone	ND	37		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.7		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.7		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	37		µg/Kg	1	4/15/2004
Acetone	ND	37		µg/Kg	1	4/15/2004
Benzene	ND	3.7		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.7		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.7		µg/Kg	1	4/15/2004
Bromoform	ND	3.7		µg/Kg	1	4/15/2004
Bromomethane	ND	3.7		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.7		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
Chloroethane	ND	3.7		µg/Kg	1	4/15/2004
Chloroform	ND	3.7		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:40:00 AM
Lab ID:	*068455-003A*	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.7		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.7		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.7		µg/Kg	1	4/15/2004
Cyclohexanone	ND	37		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.7		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.7		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.7		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.7		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.7		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.7		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.7		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Naphthalene	ND	3.7		µg/Kg	1	4/15/2004
o-Xylene	ND	3.7		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Styrene	ND	3.7		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	3.7		µg/Kg	1	4/15/2004
Toluene	ND	3.7		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.7		µg/Kg	1	4/15/2004
Trichloroethene	ND	3.7		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.7		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.7		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:52:00 AM
Lab ID:	068455-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
2-Butanone	ND	40		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
2-Hexanone	ND	40		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/15/2004
Acetone	ND	40		µg/Kg	1	4/15/2004
Benzene	ND	4.0		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/15/2004
Bromoform	ND	4.0		µg/Kg	1	4/15/2004
Bromomethane	ND	4.0		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
Chloroethane	ND	4.0		µg/Kg	1	4/15/2004
Chloroform	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 9:52:00 AM
Lab ID:	068455-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
Cyclohexanone	ND	40		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Naphthalene	ND	4.0		µg/Kg	1	4/15/2004
o-Xylene	ND	4.0		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Styrene	ND	4.0		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	4.0		µg/Kg	1	4/15/2004
Toluene	ND	4.0		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
Trichloroethene	ND	4.0		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:02:00 AM
Lab ID:	068455-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,1-Dichloroethane	5.8	3.9		µg/Kg	1	4/15/2004
1,1-Dichloroethene	6.9	3.9		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/15/2004
2-Butanone	ND	39		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/15/2004
2-Hexanone	ND	39		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/15/2004
Acetone	ND	39		µg/Kg	1	4/15/2004
Benzene	ND	3.9		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/15/2004
Bromoform	ND	3.9		µg/Kg	1	4/15/2004
Bromomethane	ND	3.9		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/15/2004
Chloroethane	ND	3.9		µg/Kg	1	4/15/2004
Chloroform	ND	3.9		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:02:00 AM
Lab ID:	068455-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/15/2004
Cyclohexanone	ND	39		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Naphthalene	ND	3.9		µg/Kg	1	4/15/2004
o-Xylene	ND	3.9		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Styrene	ND	3.9		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/15/2004
Tetrachloroethene	9.1	3.9		µg/Kg	1	4/15/2004
Toluene	ND	3.9		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/15/2004
Trichloroethene	40	3.9		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:10:00 AM
Lab ID:	068455-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethane	8.4	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethene	9.7	4.0		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
2-Butanone	ND	40		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
2-Hexanone	ND	40		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/15/2004
Acetone	ND	40		µg/Kg	1	4/15/2004
Benzene	ND	4.0		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/15/2004
Bromoform	ND	4.0		µg/Kg	1	4/15/2004
Bromomethane	ND	4.0		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
Chloroethane	ND	4.0		µg/Kg	1	4/15/2004
Chloroform	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:10:00 AM
Lab ID:	068455-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	4.5	4.0		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
Cyclohexanone	ND	40		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Naphthalene	ND	4.0		µg/Kg	1	4/15/2004
o-Xylene	ND	4.0		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Styrene	ND	4.0		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Tetrachloroethene	13	4.0		µg/Kg	1	4/15/2004
Toluene	ND	4.0		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
Trichloroethene	58	4.0		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:20:00 AM
Lab ID:	068455-007A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethane	7.8	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethene	8.9	3.8		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
2-Butanone	ND	38		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
2-Hexanone	ND	38		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/15/2004
Acetone	ND	38		µg/Kg	1	4/15/2004
Benzene	ND	3.8		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/15/2004
Bromoform	ND	3.8		µg/Kg	1	4/15/2004
Bromomethane	ND	3.8		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
Chloroethane	ND	3.8		µg/Kg	1	4/15/2004
Chloroform	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:20:00 AM
Lab ID:	068455-007A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
Cyclohexanone	ND	38		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Naphthalene	ND	3.8		µg/Kg	1	4/15/2004
o-Xylene	ND	3.8		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Styrene	ND	3.8		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Tetrachloroethene	12	3.8		µg/Kg	1	4/15/2004
Toluene	ND	3.8		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichloroethene	53	3.8		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:30:00 AM
Lab ID:	068455-008A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	4.2		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.2		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
2-Butanone	ND	42		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.2		µg/Kg	1	4/15/2004
2-Hexanone	ND	42		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.2		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.2		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	42		µg/Kg	1	4/15/2004
Acetone	ND	42		µg/Kg	1	4/15/2004
Benzene	ND	4.2		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.2		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.2		µg/Kg	1	4/15/2004
Bromoform	ND	4.2		µg/Kg	1	4/15/2004
Bromomethane	ND	4.2		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.2		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
Chloroethane	ND	4.2		µg/Kg	1	4/15/2004
Chloroform	ND	4.2		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:30:00 AM
Lab ID:	068455-008A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.2		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	4.2		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.2		µg/Kg	1	4/15/2004
Cyclohexanone	ND	42		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.2		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.2		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.2		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.2		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.2		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.2		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.2		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Naphthalene	ND	4.2		µg/Kg	1	4/15/2004
o-Xylene	ND	4.2		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Styrene	ND	4.2		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	4.2		µg/Kg	1	4/15/2004
Toluene	ND	4.2		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	1	4/15/2004
Trichloroethene	9.4	4.2		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.2		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.2		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:45:00 AM
Lab ID:	068455-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
2-Butanone	ND	38		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
2-Hexanone	ND	38		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/15/2004
Acetone	ND	38		µg/Kg	1	4/15/2004
Benzene	ND	3.8		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/15/2004
Bromoform	ND	3.8		µg/Kg	1	4/15/2004
Bromomethane	ND	3.8		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
Chloroethane	ND	3.8		µg/Kg	1	4/15/2004
Chloroform	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:45:00 AM
Lab ID:	068455-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
Cyclohexanone	ND	38		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Naphthalene	ND	3.8		µg/Kg	1	4/15/2004
o-Xylene	ND	3.8		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Styrene	ND	3.8		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Tetrachloroethene	5.3	3.8		µg/Kg	1	4/15/2004
Toluene	ND	3.8		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichloroethene	28	3.8		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:54:00 AM
Lab ID:	068455-010A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,1-Dichloroethane	13	3.7		µg/Kg	1	4/15/2004
1,1-Dichloroethene	23	3.7		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.7		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.4		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.7		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.7		µg/Kg	1	4/15/2004
2-Butanone	ND	37		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.7		µg/Kg	1	4/15/2004
2-Hexanone	ND	37		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.7		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.7		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	37		µg/Kg	1	4/15/2004
Acetone	ND	37		µg/Kg	1	4/15/2004
Benzene	ND	3.7		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.7		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.7		µg/Kg	1	4/15/2004
Bromoform	ND	3.7		µg/Kg	1	4/15/2004
Bromomethane	ND	3.7		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.7		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.7		µg/Kg	1	4/15/2004
Chloroethane	ND	3.7		µg/Kg	1	4/15/2004
Chloroform	ND	3.7		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 10:54:00 AM
Lab ID:	068455-010A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.7		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	9.2	3.7		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.7		µg/Kg	1	4/15/2004
Cyclohexanone	ND	37		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.7		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.7		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.7		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.7		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.7		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.7		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.7		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Naphthalene	ND	3.7		µg/Kg	1	4/15/2004
o-Xylene	ND	3.7		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Styrene	ND	3.7		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.7		µg/Kg	1	4/15/2004
Tetrachloroethene	28	3.7		µg/Kg	1	4/15/2004
Toluene	ND	3.7		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.7		µg/Kg	1	4/15/2004
Trichloroethene	140	3.7		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.7		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.7		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 11:02:00 AM
Lab ID:	068455-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,1-Dichloroethane	38	4.2		µg/Kg	1	4/15/2004
1,1-Dichloroethene	63	4.2		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.2		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.2		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.2		µg/Kg	1	4/15/2004
2-Butanone	ND	42		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.2		µg/Kg	1	4/15/2004
2-Hexanone	ND	42		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.2		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.2		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	42		µg/Kg	1	4/15/2004
Acetone	ND	42		µg/Kg	1	4/15/2004
Benzene	ND	4.2		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.2		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.2		µg/Kg	1	4/15/2004
Bromoform	ND	4.2		µg/Kg	1	4/15/2004
Bromomethane	ND	4.2		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.2		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.2		µg/Kg	1	4/15/2004
Chloroethane	ND	4.2		µg/Kg	1	4/15/2004
Chloroform	6.4	4.2		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-22-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 11:02:00 AM
Lab ID:	068455-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.2		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	20	4.2		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.2		µg/Kg	1	4/15/2004
Cyclohexanone	ND	42		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.2		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.2		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.2		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.2		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.2		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.2		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.2		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Naphthalene	ND	4.2		µg/Kg	1	4/15/2004
o-Xylene	ND	4.2		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Styrene	ND	4.2		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.2		µg/Kg	1	4/15/2004
Tetrachloroethene	81	4.2		µg/Kg	1	4/15/2004
Toluene	ND	4.2		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	1	4/15/2004
Trichloroethene	370	4.2	E	µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.2		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.2		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:15:00 PM
Lab ID:	068455-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/15/2004
2-Butanone	ND	40		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
2-Hexanone	ND	40		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/15/2004
Acetone	ND	40		µg/Kg	1	4/15/2004
Benzene	ND	4.0		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/15/2004
Bromoform	ND	4.0		µg/Kg	1	4/15/2004
Bromomethane	ND	4.0		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/15/2004
Chloroethane	ND	4.0		µg/Kg	1	4/15/2004
Chloroform	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:15:00 PM
Lab ID:	068455-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/15/2004
Cyclohexanone	ND	40		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Naphthalene	ND	4.0		µg/Kg	1	4/15/2004
o-Xylene	ND	4.0		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Styrene	ND	4.0		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	4.0		µg/Kg	1	4/15/2004
Toluene	ND	4.0		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/15/2004
Trichloroethene	4.3	4.0		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:20:00 PM
Lab ID:	068455-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.5		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.5		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.5		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.5		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	9.1		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.5		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.5		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.5		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.5		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.5		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.5		µg/Kg	1	4/16/2004
2-Butanone	ND	45		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.5		µg/Kg	1	4/16/2004
2-Hexanone	ND	45		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.5		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.5		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	45		µg/Kg	1	4/16/2004
Acetone	ND	45		µg/Kg	1	4/16/2004
Benzene	ND	4.5		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.5		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.5		µg/Kg	1	4/16/2004
Bromoform	ND	4.5		µg/Kg	1	4/16/2004
Bromomethane	ND	4.5		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.5		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.5		µg/Kg	1	4/16/2004
Chloroethane	ND	4.5		µg/Kg	1	4/16/2004
Chloroform	ND	4.5		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:20:00 PM
Lab ID:	068455-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.5		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.5		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.5		µg/Kg	1	4/16/2004
Cyclohexanone	ND	45		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.5		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.5		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.5		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.5		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.5		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.5		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.5		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.5		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.5		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.5		µg/Kg	1	4/16/2004
Naphthalene	ND	4.5		µg/Kg	1	4/16/2004
o-Xylene	ND	4.5		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.5		µg/Kg	1	4/16/2004
Styrene	ND	4.5		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.5		µg/Kg	1	4/16/2004
Tetrachloroethene	4.9	4.5		µg/Kg	1	4/16/2004
Toluene	ND	4.5		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.5		µg/Kg	1	4/16/2004
Trichloroethene	11	4.5		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.5		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.5		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:30:00 PM
Lab ID:	068455-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.4		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.4		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.4		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.4		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.8		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.4		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.4		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.4		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.4		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.4		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.4		µg/Kg	1	4/16/2004
2-Butanone	ND	44		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.4		µg/Kg	1	4/16/2004
2-Hexanone	ND	44		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.4		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.4		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	44		µg/Kg	1	4/16/2004
Acetone	ND	44		µg/Kg	1	4/16/2004
Benzene	ND	4.4		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.4		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.4		µg/Kg	1	4/16/2004
Bromoform	ND	4.4		µg/Kg	1	4/16/2004
Bromomethane	ND	4.4		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.4		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.4		µg/Kg	1	4/16/2004
Chloroethane	ND	4.4		µg/Kg	1	4/16/2004
Chloroform	ND	4.4		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:30:00 PM
Lab ID:	068455-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.4		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.4		µg/Kg	1	4/16/2004
Cyclohexanone	ND	44		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.4		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.4		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.4		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.4		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.4		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.4		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.4		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.4		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.4		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.4		µg/Kg	1	4/16/2004
Naphthalene	ND	4.4		µg/Kg	1	4/16/2004
o-Xylene	ND	4.4		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.4		µg/Kg	1	4/16/2004
Styrene	ND	4.4		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.4		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	4.4		µg/Kg	1	4/16/2004
Toluene	ND	4.4		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/16/2004
Trichloroethene	11	4.4		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.4		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.4		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:40:00 PM
Lab ID:	068455-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.8		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.8		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.8		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.8		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	9.6		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.8		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.8		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.8		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.8		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.8		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.8		µg/Kg	1	4/16/2004
2-Butanone	ND	48		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.8		µg/Kg	1	4/16/2004
2-Hexanone	ND	48		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.8		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.8		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	48		µg/Kg	1	4/16/2004
Acetone	ND	48		µg/Kg	1	4/16/2004
Benzene	ND	4.8		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.8		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.8		µg/Kg	1	4/16/2004
Bromoform	ND	4.8		µg/Kg	1	4/16/2004
Bromomethane	ND	4.8		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.8		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.8		µg/Kg	1	4/16/2004
Chloroethane	ND	4.8		µg/Kg	1	4/16/2004
Chloroform	ND	4.8		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:40:00 PM
Lab ID:	068455-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.8		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.8		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.8		µg/Kg	1	4/16/2004
Cyclohexanone	ND	48		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.8		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.8		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.8		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.8		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.8		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.8		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.8		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.8		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.8		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.8		µg/Kg	1	4/16/2004
Naphthalene	ND	4.8		µg/Kg	1	4/16/2004
o-Xylene	ND	4.8		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.8		µg/Kg	1	4/16/2004
Styrene	ND	4.8		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.8		µg/Kg	1	4/16/2004
Tetrachloroethene	5.3	4.8		µg/Kg	1	4/16/2004
Toluene	ND	4.8		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.8		µg/Kg	1	4/16/2004
Trichloroethene	12	4.8		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.8		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.8		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:50:00 PM
Lab ID:	068455-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
2-Butanone	ND	39		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/16/2004
2-Hexanone	ND	39		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/16/2004
Acetone	ND	39		µg/Kg	1	4/16/2004
Benzene	ND	3.9		µg/Kg	1	4/16/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/16/2004
Bromoform	ND	3.9		µg/Kg	1	4/16/2004
Bromomethane	ND	3.9		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/16/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
Chloroethane	ND	3.9		µg/Kg	1	4/16/2004
Chloroform	ND	3.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 12:50:00 PM
Lab ID:	068455-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/16/2004
Cyclohexanone	ND	39		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/16/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/16/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/16/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/16/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Naphthalene	ND	3.9		µg/Kg	1	4/16/2004
o-Xylene	ND	3.9		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Styrene	ND	3.9		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Tetrachloroethene	18	3.9		µg/Kg	1	4/16/2004
Toluene	ND	3.9		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
Trichloroethene	47	3.9		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/16/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:00:00 PM
Lab ID:	068455-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.7		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.7		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.7		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.7		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	9.4		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.7		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.7		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.7		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.7		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.7		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.7		µg/Kg	1	4/16/2004
2-Butanone	ND	47		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.7		µg/Kg	1	4/16/2004
2-Hexanone	ND	47		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.7		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.7		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	47		µg/Kg	1	4/16/2004
Acetone	ND	47		µg/Kg	1	4/16/2004
Benzene	ND	4.7		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.7		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.7		µg/Kg	1	4/16/2004
Bromoform	ND	4.7		µg/Kg	1	4/16/2004
Bromomethane	ND	4.7		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.7		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.7		µg/Kg	1	4/16/2004
Chloroethane	ND	4.7		µg/Kg	1	4/16/2004
Chloroform	ND	4.7		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:00:00 PM
Lab ID:	068455-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415B QC Batch: R04VS076 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.7		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.7		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.7		µg/Kg	1	4/16/2004
Cyclohexanone	ND	47		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.7		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.7		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.7		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.7		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.7		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.7		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.7		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.7		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.7		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.7		µg/Kg	1	4/16/2004
Naphthalene	ND	4.7		µg/Kg	1	4/16/2004
o-Xylene	ND	4.7		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.7		µg/Kg	1	4/16/2004
Styrene	ND	4.7		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.7		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	4.7		µg/Kg	1	4/16/2004
Toluene	ND	4.7		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.7		µg/Kg	1	4/16/2004
Trichloroethene	ND	4.7		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.7		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.7		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:10:00 PM
Lab ID:	068455-018A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	5.2		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	5.2		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	5.2		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	5.2		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	5.2		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	5.2		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	5.2		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	5.2		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	5.2		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	5.2		µg/Kg	1	4/16/2004
2-Butanone	ND	52		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	5.2		µg/Kg	1	4/16/2004
2-Hexanone	ND	52		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	5.2		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	5.2		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	52		µg/Kg	1	4/16/2004
Acetone	ND	52		µg/Kg	1	4/16/2004
Benzene	ND	5.2		µg/Kg	1	4/16/2004
Bromobenzene	ND	5.2		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	5.2		µg/Kg	1	4/16/2004
Bromoform	ND	5.2		µg/Kg	1	4/16/2004
Bromomethane	ND	5.2		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	5.2		µg/Kg	1	4/16/2004
Chlorobenzene	ND	5.2		µg/Kg	1	4/16/2004
Chloroethane	ND	5.2		µg/Kg	1	4/16/2004
Chloroform	ND	5.2		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:10:00 PM
Lab ID:	068455-018A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	5.2		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	5.2		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	5.2		µg/Kg	1	4/16/2004
Cyclohexanone	ND	52		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	5.2		µg/Kg	1	4/16/2004
Dibromomethane	ND	5.2		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	5.2		µg/Kg	1	4/16/2004
Ethylbenzene	ND	5.2		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	5.2		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	5.2		µg/Kg	1	4/16/2004
m,p-Xylene	ND	5.2		µg/Kg	1	4/16/2004
Methylene chloride	ND	5.2		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	5.2		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	5.2		µg/Kg	1	4/16/2004
Naphthalene	ND	5.2		µg/Kg	1	4/16/2004
o-Xylene	ND	5.2		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	5.2		µg/Kg	1	4/16/2004
Styrene	ND	5.2		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	5.2		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	5.2		µg/Kg	1	4/16/2004
Toluene	ND	5.2		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	5.2		µg/Kg	1	4/16/2004
Trichloroethene	ND	5.2		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	5.2		µg/Kg	1	4/16/2004
Vinyl chloride	ND	5.2		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:20:00 PM
Lab ID:	068455-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	5.1		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	5.1		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	5.1		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	5.1		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	5.1		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	5.1		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	5.1		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	5.1		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	5.1		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	5.1		µg/Kg	1	4/16/2004
2-Butanone	ND	51		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	5.1		µg/Kg	1	4/16/2004
2-Hexanone	ND	51		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	5.1		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	5.1		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	51		µg/Kg	1	4/16/2004
Acetone	ND	51		µg/Kg	1	4/16/2004
Benzene	ND	5.1		µg/Kg	1	4/16/2004
Bromobenzene	ND	5.1		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	5.1		µg/Kg	1	4/16/2004
Bromoform	ND	5.1		µg/Kg	1	4/16/2004
Bromomethane	ND	5.1		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	5.1		µg/Kg	1	4/16/2004
Chlorobenzene	ND	5.1		µg/Kg	1	4/16/2004
Chloroethane	ND	5.1		µg/Kg	1	4/16/2004
Chloroform	ND	5.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:20:00 PM
Lab ID:	068455-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	5.1		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	5.1		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	5.1		µg/Kg	1	4/16/2004
Cyclohexanone	ND	51		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	5.1		µg/Kg	1	4/16/2004
Dibromomethane	ND	5.1		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	5.1		µg/Kg	1	4/16/2004
Ethylbenzene	ND	5.1		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	5.1		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	5.1		µg/Kg	1	4/16/2004
m,p-Xylene	ND	5.1		µg/Kg	1	4/16/2004
Methylene chloride	ND	5.1		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	5.1		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	5.1		µg/Kg	1	4/16/2004
Naphthalene	ND	5.1		µg/Kg	1	4/16/2004
o-Xylene	ND	5.1		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	5.1		µg/Kg	1	4/16/2004
Styrene	ND	5.1		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	5.1		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	5.1		µg/Kg	1	4/16/2004
Toluene	ND	5.1		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	5.1		µg/Kg	1	4/16/2004
Trichloroethene	ND	5.1		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	5.1		µg/Kg	1	4/16/2004
Vinyl chloride	ND	5.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:35:00 PM
Lab ID:	068455-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.3		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/16/2004
1,1-Dichloroethane	5.3	4.3		µg/Kg	1	4/16/2004
1,1-Dichloroethene	10	4.3		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.6		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/16/2004
2-Butanone	ND	43		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/16/2004
2-Hexanone	ND	43		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/16/2004
Acetone	ND	43		µg/Kg	1	4/16/2004
Benzene	ND	4.3		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/16/2004
Bromoform	ND	4.3		µg/Kg	1	4/16/2004
Bromomethane	ND	4.3		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/16/2004
Chloroethane	ND	4.3		µg/Kg	1	4/16/2004
Chloroform	ND	4.3		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:35:00 PM
Lab ID:	068455-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	4.7	4.3		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/16/2004
Cyclohexanone	ND	43		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/16/2004
Naphthalene	ND	4.3		µg/Kg	1	4/16/2004
o-Xylene	ND	4.3		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/16/2004
Styrene	ND	4.3		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/16/2004
Tetrachloroethene	75	4.3		µg/Kg	1	4/16/2004
Toluene	ND	4.3		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/16/2004
Trichloroethene	210	4.3		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:43:00 PM
Lab ID:	068455-021A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	6.4		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	6.4		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	6.4		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	6.4		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	13		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	6.4		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	6.4		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	6.4		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	6.4		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	6.4		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	6.4		µg/Kg	1	4/16/2004
2-Butanone	ND	64		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	6.4		µg/Kg	1	4/16/2004
2-Hexanone	ND	64		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	6.4		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	6.4		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	64		µg/Kg	1	4/16/2004
Acetone	ND	64		µg/Kg	1	4/16/2004
Benzene	ND	6.4		µg/Kg	1	4/16/2004
Bromobenzene	ND	6.4		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	6.4		µg/Kg	1	4/16/2004
Bromoform	ND	6.4		µg/Kg	1	4/16/2004
Bromomethane	ND	6.4		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	6.4		µg/Kg	1	4/16/2004
Chlorobenzene	ND	6.4		µg/Kg	1	4/16/2004
Chloroethane	ND	6.4		µg/Kg	1	4/16/2004
Chloroform	ND	6.4		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 1:43:00 PM
Lab ID:	068455-021A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	6.4		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	6.4		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	6.4		µg/Kg	1	4/16/2004
Cyclohexanone	ND	64		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	6.4		µg/Kg	1	4/16/2004
Dibromomethane	ND	6.4		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	6.4		µg/Kg	1	4/16/2004
Ethylbenzene	ND	6.4		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	6.4		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	6.4		µg/Kg	1	4/16/2004
m,p-Xylene	ND	6.4		µg/Kg	1	4/16/2004
Methylene chloride	ND	6.4		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	6.4		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	6.4		µg/Kg	1	4/16/2004
Naphthalene	ND	6.4		µg/Kg	1	4/16/2004
o-Xylene	ND	6.4		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	6.4		µg/Kg	1	4/16/2004
Styrene	ND	6.4		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	6.4		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	6.4		µg/Kg	1	4/16/2004
Toluene	ND	6.4		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	6.4		µg/Kg	1	4/16/2004
Trichloroethene	12	6.4		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	6.4		µg/Kg	1	4/16/2004
Vinyl chloride	ND	6.4		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 2:00:00 PM
Lab ID:	068455-022A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethene	6.5	4.0		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
2-Butanone	ND	40		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
2-Hexanone	ND	40		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/16/2004
Acetone	ND	40		µg/Kg	1	4/16/2004
Benzene	ND	4.0		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/16/2004
Bromoform	ND	4.0		µg/Kg	1	4/16/2004
Bromomethane	ND	4.0		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
Chloroethane	ND	4.0		µg/Kg	1	4/16/2004
Chloroform	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-21-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 2:00:00 PM
Lab ID:	068455-022A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
Cyclohexanone	ND	40		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Naphthalene	ND	4.0		µg/Kg	1	4/16/2004
o-Xylene	ND	4.0		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Styrene	ND	4.0		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Tetrachloroethene	56	4.0		µg/Kg	1	4/16/2004
Toluene	ND	4.0		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
Trichloroethene	160	4.0		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 3:55:00 PM
Lab ID:	068455-023A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/16/2004
2-Butanone	ND	39		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/16/2004
2-Hexanone	ND	39		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/16/2004
Acetone	ND	39		µg/Kg	1	4/16/2004
Benzene	ND	3.9		µg/Kg	1	4/16/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/16/2004
Bromoform	ND	3.9		µg/Kg	1	4/16/2004
Bromomethane	ND	3.9		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/16/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/16/2004
Chloroethane	ND	3.9		µg/Kg	1	4/16/2004
Chloroform	ND	3.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-5
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 3:55:00 PM
Lab ID:	068455-023A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/16/2004
Cyclohexanone	ND	39		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/16/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/16/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/16/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/16/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Naphthalene	ND	3.9		µg/Kg	1	4/16/2004
o-Xylene	ND	3.9		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Styrene	ND	3.9		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/16/2004
Tetrachloroethene	6.0	3.9		µg/Kg	1	4/16/2004
Toluene	ND	3.9		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/16/2004
Trichloroethene	ND	3.9		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/16/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:05:00 PM
Lab ID:	068455-024A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS3_040416A	QC Batch: R04VS077			PrepDate	4/13/2004	Analyst: **JPC**
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.2		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
2-Butanone	ND	41		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/16/2004
2-Hexanone	ND	41		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/16/2004
Acetone	ND	41		µg/Kg	1	4/16/2004
Benzene	ND	4.1		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/16/2004
Bromoform	ND	4.1		µg/Kg	1	4/16/2004
Bromomethane	ND	4.1		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
Chloroethane	ND	4.1		µg/Kg	1	4/16/2004
Chloroform	ND	4.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-10
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:05:00 PM
Lab ID:	068455-024A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416A QC Batch: R04VS077 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/16/2004
Cyclohexanone	ND	41		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Naphthalene	ND	4.1		µg/Kg	1	4/16/2004
o-Xylene	ND	4.1		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Styrene	ND	4.1		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	4.1		µg/Kg	1	4/16/2004
Toluene	ND	4.1		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/16/2004
Trichloroethene	ND	4.1		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:13:00 PM
Lab ID:	068455-025A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
2-Butanone	ND	40		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
2-Hexanone	ND	40		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/16/2004
Acetone	ND	40		µg/Kg	1	4/16/2004
Benzene	ND	4.0		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/16/2004
Bromoform	ND	4.0		µg/Kg	1	4/16/2004
Bromomethane	ND	4.0		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
Chloroethane	ND	4.0		µg/Kg	1	4/16/2004
Chloroform	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-15
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:13:00 PM
Lab ID:	068455-025A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
Cyclohexanone	ND	40		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Naphthalene	ND	4.0		µg/Kg	1	4/16/2004
o-Xylene	ND	4.0		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Styrene	ND	4.0		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	4.0		µg/Kg	1	4/16/2004
Toluene	ND	4.0		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
Trichloroethene	8.3	4.0		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:20:00 PM
Lab ID:	068455-026A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	3.6		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	3.6		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	3.6		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	7.2		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	3.6		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	3.6		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	3.6		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	3.6		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	3.6		µg/Kg	1	4/16/2004
2-Butanone	ND	36		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	3.6		µg/Kg	1	4/16/2004
2-Hexanone	ND	36		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	3.6		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	3.6		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	36		µg/Kg	1	4/16/2004
Acetone	ND	36		µg/Kg	1	4/16/2004
Benzene	ND	3.6		µg/Kg	1	4/16/2004
Bromobenzene	ND	3.6		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	3.6		µg/Kg	1	4/16/2004
Bromoform	ND	3.6		µg/Kg	1	4/16/2004
Bromomethane	ND	3.6		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	3.6		µg/Kg	1	4/16/2004
Chlorobenzene	ND	3.6		µg/Kg	1	4/16/2004
Chloroethane	ND	3.6		µg/Kg	1	4/16/2004
Chloroform	ND	3.6		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-20
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:20:00 PM
Lab ID:	068455-026A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.6		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	3.6		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	3.6		µg/Kg	1	4/16/2004
Cyclohexanone	ND	36		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	3.6		µg/Kg	1	4/16/2004
Dibromomethane	ND	3.6		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	3.6		µg/Kg	1	4/16/2004
Ethylbenzene	ND	3.6		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	3.6		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	3.6		µg/Kg	1	4/16/2004
m,p-Xylene	ND	3.6		µg/Kg	1	4/16/2004
Methylene chloride	ND	3.6		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	3.6		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	3.6		µg/Kg	1	4/16/2004
Naphthalene	ND	3.6		µg/Kg	1	4/16/2004
o-Xylene	ND	3.6		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	3.6		µg/Kg	1	4/16/2004
Styrene	ND	3.6		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	3.6		µg/Kg	1	4/16/2004
Tetrachloroethene	5.4	3.6		µg/Kg	1	4/16/2004
Toluene	ND	3.6		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	3.6		µg/Kg	1	4/16/2004
Trichloroethene	13	3.6		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	3.6		µg/Kg	1	4/16/2004
Vinyl chloride	ND	3.6		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:30:00 PM
Lab ID:	068455-027A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
2-Butanone	ND	40		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
2-Hexanone	ND	40		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/16/2004
Acetone	ND	40		µg/Kg	1	4/16/2004
Benzene	ND	4.0		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/16/2004
Bromoform	ND	4.0		µg/Kg	1	4/16/2004
Bromomethane	ND	4.0		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
Chloroethane	ND	4.0		µg/Kg	1	4/16/2004
Chloroform	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-25
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:30:00 PM
Lab ID:	068455-027A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
Cyclohexanone	ND	40		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Naphthalene	ND	4.0		µg/Kg	1	4/16/2004
o-Xylene	ND	4.0		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Styrene	ND	4.0		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Tetrachloroethene	5.2	4.0		µg/Kg	1	4/16/2004
Toluene	ND	4.0		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
Trichloroethene	14	4.0		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:37:00 PM
Lab ID:	068455-028A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/16/2004
2-Butanone	ND	40		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
2-Hexanone	ND	40		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/16/2004
Acetone	ND	40		µg/Kg	1	4/16/2004
Benzene	ND	4.0		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/16/2004
Bromoform	ND	4.0		µg/Kg	1	4/16/2004
Bromomethane	ND	4.0		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/16/2004
Chloroethane	ND	4.0		µg/Kg	1	4/16/2004
Chloroform	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-30
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:37:00 PM
Lab ID:	068455-028A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS3_040416B	QC Batch: R04VS078			PrepDate	4/13/2004	Analyst: **JPC**
Chloromethane	ND	4.0		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/16/2004
Cyclohexanone	ND	40		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Naphthalene	ND	4.0		µg/Kg	1	4/16/2004
o-Xylene	ND	4.0		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Styrene	ND	4.0		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/16/2004
Tetrachloroethene	6.4	4.0		µg/Kg	1	4/16/2004
Toluene	ND	4.0		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/16/2004
Trichloroethene	12	4.0		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:45:00 PM
Lab ID:	068455-029B	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040419A QC Batch: R04VS079 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,1,1-Trichloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,1,2,2-Tetrachloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,1,2-Trichloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,1-Dichloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,1-Dichloroethene	ND	5.3		µg/Kg	1	4/19/2004
1,1-Dichloropropene	ND	5.3		µg/Kg	1	4/19/2004
1,2,3-Trichlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
1,2,3-Trichloropropane	ND	5.3		µg/Kg	1	4/19/2004
1,2,4-Trichlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
1,2,4-Trimethylbenzene	ND	5.3		µg/Kg	1	4/19/2004
1,2-Dibromo-3-chloropropane	ND	11		µg/Kg	1	4/19/2004
1,2-Dibromoethane	ND	5.3		µg/Kg	1	4/19/2004
1,2-Dichlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
1,2-Dichloroethane	ND	5.3		µg/Kg	1	4/19/2004
1,2-Dichloropropane	ND	5.3		µg/Kg	1	4/19/2004
1,3,5-Trimethylbenzene	ND	5.3		µg/Kg	1	4/19/2004
1,3-Dichlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
1,3-Dichloropropane	ND	5.3		µg/Kg	1	4/19/2004
1,4-Dichlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
2,2-Dichloropropane	ND	5.3		µg/Kg	1	4/19/2004
2-Butanone	ND	53		µg/Kg	1	4/19/2004
2-Chlorotoluene	ND	5.3		µg/Kg	1	4/19/2004
2-Hexanone	ND	53		µg/Kg	1	4/19/2004
4-Chlorotoluene	ND	5.3		µg/Kg	1	4/19/2004
4-Isopropyltoluene	ND	5.3		µg/Kg	1	4/19/2004
4-Methyl-2-pentanone	ND	53		µg/Kg	1	4/19/2004
Acetone	ND	53		µg/Kg	1	4/19/2004
Benzene	ND	5.3		µg/Kg	1	4/19/2004
Bromobenzene	ND	5.3		µg/Kg	1	4/19/2004
Bromodichloromethane	ND	5.3		µg/Kg	1	4/19/2004
Bromoform	ND	5.3		µg/Kg	1	4/19/2004
Bromomethane	ND	5.3		µg/Kg	1	4/19/2004
Carbon tetrachloride	ND	5.3		µg/Kg	1	4/19/2004
Chlorobenzene	ND	5.3		µg/Kg	1	4/19/2004
Chloroethane	ND	5.3		µg/Kg	1	4/19/2004
Chloroform	ND	5.3		µg/Kg	1	4/19/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-35
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:45:00 PM
Lab ID:	068455-029B	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040419A QC Batch: R04VS079 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	5.3		µg/Kg	1	4/19/2004
cis-1,2-Dichloroethene	ND	5.3		µg/Kg	1	4/19/2004
cis-1,3-Dichloropropene	ND	5.3		µg/Kg	1	4/19/2004
Cyclohexanone	ND	53		µg/Kg	1	4/19/2004
Dibromochloromethane	ND	5.3		µg/Kg	1	4/19/2004
Dibromomethane	ND	5.3		µg/Kg	1	4/19/2004
Dichlorodifluoromethane	ND	5.3		µg/Kg	1	4/19/2004
Ethylbenzene	ND	5.3		µg/Kg	1	4/19/2004
Hexachlorobutadiene	ND	5.3		µg/Kg	1	4/19/2004
Isopropylbenzene	ND	5.3		µg/Kg	1	4/19/2004
m,p-Xylene	ND	5.3		µg/Kg	1	4/19/2004
Methylene chloride	ND	5.3		µg/Kg	1	4/19/2004
n-Butylbenzene	ND	5.3		µg/Kg	1	4/19/2004
n-Propylbenzene	ND	5.3		µg/Kg	1	4/19/2004
Naphthalene	ND	5.3		µg/Kg	1	4/19/2004
o-Xylene	ND	5.3		µg/Kg	1	4/19/2004
sec-Butylbenzene	ND	5.3		µg/Kg	1	4/19/2004
Styrene	ND	5.3		µg/Kg	1	4/19/2004
tert-Butylbenzene	ND	5.3		µg/Kg	1	4/19/2004
Tetrachloroethene	ND	5.3		µg/Kg	1	4/19/2004
Toluene	ND	5.3		µg/Kg	1	4/19/2004
trans-1,2-Dichloroethene	ND	5.3		µg/Kg	1	4/19/2004
Trichloroethene	ND	5.3		µg/Kg	1	4/19/2004
Trichlorofluoromethane	ND	5.3		µg/Kg	1	4/19/2004
Vinyl chloride	ND	5.3		µg/Kg	1	4/19/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:55:00 PM
Lab ID:	068455-030B	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040419A QC Batch: R04VS079 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,1,1-Trichloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,1-Dichloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,1-Dichloroethene	4.3	4.3		µg/Kg	1	4/19/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/19/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/19/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/19/2004
1,2-Dibromo-3-chloropropane	ND	8.5		µg/Kg	1	4/19/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/19/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/19/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/19/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/19/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/19/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/19/2004
2-Butanone	ND	43		µg/Kg	1	4/19/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/19/2004
2-Hexanone	ND	43		µg/Kg	1	4/19/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/19/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/19/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/19/2004
Acetone	ND	43		µg/Kg	1	4/19/2004
Benzene	ND	4.3		µg/Kg	1	4/19/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/19/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/19/2004
Bromoform	ND	4.3		µg/Kg	1	4/19/2004
Bromomethane	ND	4.3		µg/Kg	1	4/19/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/19/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/19/2004
Chloroethane	ND	4.3		µg/Kg	1	4/19/2004
Chloroform	ND	4.3		µg/Kg	1	4/19/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-40
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 4:55:00 PM
Lab ID:	068455-030B	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040419A QC Batch: R04VS079 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/19/2004
cis-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/19/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/19/2004
Cyclohexanone	ND	43		µg/Kg	1	4/19/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/19/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/19/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/19/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/19/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/19/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/19/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/19/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/19/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/19/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/19/2004
Naphthalene	ND	4.3		µg/Kg	1	4/19/2004
o-Xylene	ND	4.3		µg/Kg	1	4/19/2004
séc-Butylbenzene	ND	4.3		µg/Kg	1	4/19/2004
Styrene	ND	4.3		µg/Kg	1	4/19/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/19/2004
Tetrachloroethene	11	4.3		µg/Kg	1	4/19/2004
Toluene	ND	4.3		µg/Kg	1	4/19/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/19/2004
Trichloroethene	27	4.3		µg/Kg	1	4/19/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/19/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/19/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 5:05:00 PM
Lab ID:	068455-031A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1-Dichloroethene	ND	4.9		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.9		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	9.8		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
2-Butanone	ND	49		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.9		µg/Kg	1	4/16/2004
2-Hexanone	ND	49		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.9		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.9		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	49		µg/Kg	1	4/16/2004
Acetone	ND	49		µg/Kg	1	4/16/2004
Benzene	ND	4.9		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.9		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.9		µg/Kg	1	4/16/2004
Bromoform	ND	4.9		µg/Kg	1	4/16/2004
Bromomethane	ND	4.9		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.9		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
Chloroethane	ND	4.9		µg/Kg	1	4/16/2004
Chloroform	ND	4.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-45
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 5:05:00 PM
Lab ID:	068455-031A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.9		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.9		µg/Kg	1	4/16/2004
Cyclohexanone	ND	49		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.9		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.9		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.9		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.9		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.9		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.9		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.9		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Naphthalene	ND	4.9		µg/Kg	1	4/16/2004
o-Xylene	ND	4.9		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Styrene	ND	4.9		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Tetrachloroethene	ND	4.9		µg/Kg	1	4/16/2004
Toluene	ND	4.9		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/16/2004
Trichloroethene	ND	4.9		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.9		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 5:18:00 PM
Lab ID:	068455-032A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,1-Dichloroethane	9.1	4.1		µg/Kg	1	4/16/2004
1,1-Dichloroethene	14	4.1		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	8.2		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/16/2004
2-Butanone	ND	41		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/16/2004
2-Hexanone	ND	41		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/16/2004
Acetone	ND	41		µg/Kg	1	4/16/2004
Benzene	ND	4.1		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/16/2004
Bromoform	ND	4.1		µg/Kg	1	4/16/2004
Bromomethane	ND	4.1		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/16/2004
Chloroethane	ND	4.1		µg/Kg	1	4/16/2004
Chloroform	ND	4.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-50
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004 5:18:00 PM
Lab ID:	068455-032A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/16/2004
Cyclohexanone	ND	41		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Naphthalene	ND	4.1		µg/Kg	1	4/16/2004
o-Xylene	ND	4.1		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Styrene	ND	4.1		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/16/2004
Tetrachloroethene	37	4.1		µg/Kg	1	4/16/2004
Toluene	ND	4.1		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/16/2004
Trichloroethene	110	4.1		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004
Lab ID:	068455-033A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,1-Trichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,2,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1,2-Trichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1-Dichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,1-Dichloroethene	5.1	4.9		µg/Kg	1	4/16/2004
1,1-Dichloropropene	ND	4.9		µg/Kg	1	4/16/2004
1,2,3-Trichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2,3-Trichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,2,4-Trichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2,4-Trimethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dibromo-3-chloropropane	ND	9.7		µg/Kg	1	4/16/2004
1,2-Dibromoethane	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichloroethane	ND	4.9		µg/Kg	1	4/16/2004
1,2-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,3,5-Trimethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
1,3-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
1,3-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
1,4-Dichlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
2,2-Dichloropropane	ND	4.9		µg/Kg	1	4/16/2004
2-Butanone	ND	49		µg/Kg	1	4/16/2004
2-Chlorotoluene	ND	4.9		µg/Kg	1	4/16/2004
2-Hexanone	ND	49		µg/Kg	1	4/16/2004
4-Chlorotoluene	ND	4.9		µg/Kg	1	4/16/2004
4-Isopropyltoluene	ND	4.9		µg/Kg	1	4/16/2004
4-Methyl-2-pentanone	ND	49		µg/Kg	1	4/16/2004
Acetone	ND	49		µg/Kg	1	4/16/2004
Benzene	ND	4.9		µg/Kg	1	4/16/2004
Bromobenzene	ND	4.9		µg/Kg	1	4/16/2004
Bromodichloromethane	ND	4.9		µg/Kg	1	4/16/2004
Bromoform	ND	4.9		µg/Kg	1	4/16/2004
Bromomethane	ND	4.9		µg/Kg	1	4/16/2004
Carbon tetrachloride	ND	4.9		µg/Kg	1	4/16/2004
Chlorobenzene	ND	4.9		µg/Kg	1	4/16/2004
Chloroethane	ND	4.9		µg/Kg	1	4/16/2004
Chloroform	ND	4.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-24-55
Lab Order:	068455		
Project:	PACCAR-ADDITIONAL ASSESSMENT, 161	**Collection Date:**	4/13/2004
Lab ID:	068455-033A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040416B QC Batch: R04VS078 PrepDate 4/13/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.9		µg/Kg	1	4/16/2004
cis-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/16/2004
cis-1,3-Dichloropropene	ND	4.9		µg/Kg	1	4/16/2004
Cyclohexanone	ND	49		µg/Kg	1	4/16/2004
Dibromochloromethane	ND	4.9		µg/Kg	1	4/16/2004
Dibromomethane	ND	4.9		µg/Kg	1	4/16/2004
Dichlorodifluoromethane	ND	4.9		µg/Kg	1	4/16/2004
Ethylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Hexachlorobutadiene	ND	4.9		µg/Kg	1	4/16/2004
Isopropylbenzene	ND	4.9		µg/Kg	1	4/16/2004
m,p-Xylene	ND	4.9		µg/Kg	1	4/16/2004
Methylene chloride	ND	4.9		µg/Kg	1	4/16/2004
n-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
n-Propylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Naphthalene	ND	4.9		µg/Kg	1	4/16/2004
o-Xylene	ND	4.9		µg/Kg	1	4/16/2004
sec-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Styrene	ND	4.9		µg/Kg	1	4/16/2004
tert-Butylbenzene	ND	4.9		µg/Kg	1	4/16/2004
Tetrachloroethene	14	4.9		µg/Kg	1	4/16/2004
Toluene	ND	4.9		µg/Kg	1	4/16/2004
trans-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/16/2004
Trichloroethene	44	4.9		µg/Kg	1	4/16/2004
Trichlorofluoromethane	ND	4.9		µg/Kg	1	4/16/2004
Vinyl chloride	ND	4.9		µg/Kg	1	4/16/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040415MB4** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415B**
Client ID: **ZZZZZ** Batch ID: **R04VS076** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **553314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040415MB4** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415B**
Client ID: **ZZZZZ** Batch ID: **R04VS076** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **553314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040416MB2** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416A**
Client ID: **ZZZZZ** Batch ID: **R04VS077** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID R040416MB2 SampType: MBLK TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040416A
Client ID: ZZZZZ Batch ID: R04VS077 TestNo: EPA 8260B Analysis Date: 4/16/2004 SeqNo: 554027

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; Calculations are based on raw values; DO - Surrogate dilute out; H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040416MB4** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416B**
Client ID: **ZZZZZ** Batch ID: **R04VS078** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554091**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID R040416MB4 SampType: MBLK TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040416B
Client ID: ZZZZZ Batch ID: R04VS078 TestNo: EPA 8260B Analysis Date: 4/16/2004 SeqNo: 554091

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; Calculations are based on raw values; DO - Surrogate dilute out; H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040419MB1** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040419A**
Client ID: **ZZZZZ** Batch ID: **R04VS079** TestNo: **EPA 8260B** Analysis Date: **4/19/2004** SeqNo: **554318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040419MB1** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040419A**
Client ID: *ZZZZZ* Batch ID: **R04VS079** TestNo: **EPA 8260B** Analysis Date: **4/19/2004** SeqNo: **554318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID R040415LC2 SampType: LCS TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040415B
Client ID: ZZZZZ Batch ID: R04VS076 TestNo: EPA 8260B Analysis Date: 4/15/2004 SeqNo: 553311

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	81.76	5.0	100	0	81.8	73	138	0	0		
Benzene	106.3	5.0	100	0	106	77	128	0	0		
Chlorobenzene	118	5.0	100	0	118	79	120	0	0		
Toluene	107.6	5.0	100	0	108	79	126	0	0		
Trichloroethene	114.1	5.0	100	0	114	76	125	0	0		

Sample ID R040416LC1 SampType: LCS TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040416A
Client ID: ZZZZZ Batch ID: R04VS077 TestNo: EPA 8260B Analysis Date: 4/16/2004 SeqNo: 554024

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	84.07	5.0	100	0	84.1	73	138	0	0		
Benzene	108.4	5.0	100	0	108	77	128	0	0		
Chlorobenzene	119.3	5.0	100	0	119	79	120	0	0		
Toluene	108.7	5.0	100	0	109	79	126	0	0		
Trichloroethene	116	5.0	100	0	116	76	125	0	0		

Sample ID R040416LC2 SampType: LCS TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040416B
Client ID: ZZZZZ Batch ID: R04VS078 TestNo: EPA 8260B Analysis Date: 4/16/2004 SeqNo: 554088

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.41	5.0	100	0	83.4	73	138	0	0		
Benzene	108.1	5.0	100	0	108	77	128	0	0		
Chlorobenzene	119.3	5.0	100	0	119	79	120	0	0		
Toluene	108.9	5.0	100	0	109	79	126	0	0		
Trichloroethene	115.8	5.0	100	0	116	76	125	0	0		

Sample ID R040419LC1 SampType: LCS TestCode: 8260_S_5035 Units: µg/Kg Prep Date: Run ID: MS3_040419A
Client ID: ZZZZZ Batch ID: R04VS079 TestNo: EPA 8260B Analysis Date: 4/19/2004 SeqNo: 554315

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040419LC1** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040419A**
Client ID: **ZZZZZ** Batch ID: **R04VS079** TestNo: **EPA 8260B** Analysis Date: **4/19/2004** SeqNo: **554315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	81.51	5.0	100	0	81.5	73	138	0	0		
Benzene	104.6	5.0	100	0	105	77	128	0	0		
Chlorobenzene	113.5	5.0	100	0	113	79	120	0	0		
Toluene	105.8	5.0	100	0	106	79	126	0	0		
Trichloroethene	113.9	5.0	100	0	114	76	125	0	0		

Sample ID **R040415MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415B**
Client ID: **ZZZZZ** Batch ID: **R04VS076** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **553312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	85.61	5.0	100	0	85.6	49	141	0	0		
Benzene	113.2	5.0	100	0	113	48	143	0	0		
Chlorobenzene	123.8	5.0	100	0	124	27	144	0	0		
Toluene	112.4	5.0	100	0	112	53	140	0	0		
Trichloroethene	124.3	5.0	100	0	124	55	146	0	0		

Sample ID **R040416MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416A**
Client ID: **ZZZZZ** Batch ID: **R04VS077** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.54	5.0	100	0	83.5	49	141	0	0		
Benzene	108.8	5.0	100	0	109	48	143	0	0		
Chlorobenzene	119.7	5.0	100	0	120	27	144	0	0		
Toluene	109.1	5.0	100	0	109	53	140	0	0		
Trichloroethene	117.5	5.0	100	0	118	55	146	0	0		

Sample ID **R040416MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416B**
Client ID: **ZZZZZ** Batch ID: **R04VS078** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040416MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416B**
Client ID: **ZZZZZ** Batch ID: **R04VS078** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554089**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.03	5.0	100	0	83	49	141	0	0		
Benzene	109.5	5.0	100	0	109	48	143	0	0		
Chlorobenzene	122	5.0	100	0	122	27	144	0	0		
Toluene	109.9	5.0	100	0	110	53	140	0	0		
Trichloroethene	118.4	5.0	100	0	118	55	146	0	0		

Sample ID **068486-001AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040419A**
Client ID: **ZZZZZ** Batch ID: **R04VS079** TestNo: **EPA 8260B** Analysis Date: **4/19/2004** SeqNo: **554316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	69.03	5.0	100	0	69	49	141	0	0		
Benzene	94.45	5.0	100	0	94.4	48	143	0	0		
Chlorobenzene	75.12	5.0	100	0	75.1	27	144	0	0		
Toluene	164	5.0	100	2.48	162	53	140	0	0		S
Trichloroethene	86.59	5.0	100	0	86.6	55	146	0	0		

Sample ID **R040415MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415B**
Client ID: **ZZZZZ** Batch ID: **R04VS076** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **553313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.28	5.0	100	0	83.3	49	141	85.61	2.76	30	
Benzene	108.3	5.0	100	0	108	48	143	113.2	4.43	30	
Chlorobenzene	120.3	5.0	100	0	120	27	144	123.8	2.94	30	
Toluene	108.4	5.0	100	0	108	53	140	112.4	3.58	30	
Trichloroethene	119.3	5.0	100	0	119	55	146	124.3	4.14	30	

Sample ID **R040416MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416A**
Client ID: **ZZZZZ** Batch ID: **R04VS077** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc.
Work Order: 068455
Project: PACCAR-ADDITIONAL ASSESSMENT, 161

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040416MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416A**
Client ID: **ZZZZZ** Batch ID: **R04VS077** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	82.27	5.0	100	0	82.3	49	141	83.54	1.53	30	
Benzene	108.7	5.0	100	0	109	48	143	108.8	0.0368	30	
Chlorobenzene	119	5.0	100	0	119	27	144	119.7	0.654	30	
Toluene	108.7	5.0	100	0	109	53	140	109.1	0.367	30	
Trichloroethene	116.2	5.0	100	0	116	55	146	117.5	1.12	30	

Sample ID **R040416MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040416B**
Client ID: **ZZZZZ** Batch ID: **R04VS078** TestNo: **EPA 8260B** Analysis Date: **4/16/2004** SeqNo: **554090**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	84.35	5.0	100	0	84.4	49	141	83.03	1.58	30	
Benzene	110.5	5.0	100	0	111	48	143	109.5	0.973	30	
Chlorobenzene	121.8	5.0	100	0	122	27	144	122	0.181	30	
Toluene	111	5.0	100	0	111	53	140	109.9	1.03	30	
Trichloroethene	118.7	5.0	100	0	119	55	146	118.4	0.177	30	

Sample ID **068486-001AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040419A**
Client ID: **ZZZZZ** Batch ID: **R04VS079** TestNo: **EPA 8260B** Analysis Date: **4/19/2004** SeqNo: **554317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	66.56	5.0	100	0	66.6	49	141	69.03	3.64	30	
Benzene	93.69	5.0	100	0	93.7	48	143	94.45	0.808	30	
Chlorobenzene	73.62	5.0	100	0	73.6	27	144	75.12	2.02	30	
Toluene	162	5.0	100	2.48	160	53	140	164	1.24	30	S
Trichloroethene	82.29	5.0	100	0	82.3	55	146	86.59	5.09	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

June 04, 2004

Ronald Halpern
Hart Crowser, Inc.
301 E. Ocean Blvd., Ste. 1950
Long Beach, CA 90802
TEL: (562) 733-1910
FAX: (562) 733-1750

RE: PACCAR- Soil Sampling, 16171

Attention: Ronald Halpern

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 068414

Enclosed are the results for sample(s) received on April 09, 2004 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT: Hart Crowser, Inc.
Project: PACCAR- Soil Sampling, 16171
Lab Order: 068414

CASE NARRATIVE

Regenerated report to include Ketones, per client request.

Analytical Comments for Method 8260

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-5
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:02:00 AM
Lab ID:	068414-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	5.4	4.1		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
2-Butanone	ND	41		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/14/2004
2-Hexanone	ND	41		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/14/2004
Acetone	ND	41		µg/Kg	1	4/14/2004
Benzene	ND	4.1		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/14/2004
Bromoform	ND	4.1		µg/Kg	1	4/14/2004
Bromomethane	ND	4.1		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
Chloroethane	ND	4.1		µg/Kg	1	4/14/2004
Chloroform	ND	4.1		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-5
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:02:00 AM
Lab ID:	068414-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/14/2004
Cyclohexanone	ND	41		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/14/2004
m,p-Xylene	4.3	4.1		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Naphthalene	ND	4.1		µg/Kg	1	4/14/2004
o-Xylene	ND	4.1		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Styrene	ND	4.1		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Tetrachloroethene	18	4.1		µg/Kg	1	4/14/2004
Toluene	ND	4.1		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/14/2004
Trichloroethene	18	4.1		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-10
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:20:00 AM
Lab ID:	068414-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
2-Butanone	ND	40		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
2-Hexanone	ND	40		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/14/2004
Acetone	ND	40		µg/Kg	1	4/14/2004
Benzene	ND	4.0		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/14/2004
Bromoform	ND	4.0		µg/Kg	1	4/14/2004
Bromomethane	ND	4.0		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
Chloroethane	ND	4.0		µg/Kg	1	4/14/2004
Chloroform	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-10
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:20:00 AM
Lab ID:	068414-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
Cyclohexanone	ND	40		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Naphthalene	ND	4.0		µg/Kg	1	4/14/2004
o-Xylene	ND	4.0		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Styrene	ND	4.0		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Tetrachloroethene	5.9	4.0		µg/Kg	1	4/14/2004
Toluene	ND	4.0		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichloroethene	7.4	4.0		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-15
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:33:00 AM
Lab ID:	068414-003A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.4		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.4		µg/Kg	1	4/14/2004
1,1-Dichloroethane	7.3	4.4		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.4		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.4		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.4		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.4		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.8		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.4		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.4		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.4		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.4		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.4		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.4		µg/Kg	1	4/14/2004
2-Butanone	ND	44		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.4		µg/Kg	1	4/14/2004
2-Hexanone	ND	44		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.4		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.4		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	44		µg/Kg	1	4/14/2004
Acetone	ND	44		µg/Kg	1	4/14/2004
Benzene	ND	4.4		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.4		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.4		µg/Kg	1	4/14/2004
Bromoform	ND	4.4		µg/Kg	1	4/14/2004
Bromomethane	ND	4.4		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.4		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.4		µg/Kg	1	4/14/2004
Chloroethane	ND	4.4		µg/Kg	1	4/14/2004
Chloroform	ND	4.4		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-15
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:33:00 AM
Lab ID:	068414-003A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.4		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.4		µg/Kg	1	4/14/2004
Cyclohexanone	ND	44		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.4		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.4		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.4		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.4		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.4		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.4		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.4		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.4		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.4		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.4		µg/Kg	1	4/14/2004
Naphthalene	ND	4.4		µg/Kg	1	4/14/2004
o-Xylene	ND	4.4		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.4		µg/Kg	1	4/14/2004
Styrene	ND	4.4		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.4		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	4.4		µg/Kg	1	4/14/2004
Toluene	ND	4.4		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/14/2004
Trichloroethene	7.6	4.4		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.4		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.4		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-20
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:50:00 AM
Lab ID:	068414-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
2-Butanone	ND	40		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
2-Hexanone	ND	40		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/14/2004
Acetone	ND	40		µg/Kg	1	4/14/2004
Benzene	ND	4.0		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/14/2004
Bromoform	ND	4.0		µg/Kg	1	4/14/2004
Bromomethane	ND	4.0		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
Chloroethane	ND	4.0		µg/Kg	1	4/14/2004
Chloroform	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-20
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 10:50:00 AM
Lab ID:	068414-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
Cyclohexanone	ND	40		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Naphthalene	ND	4.0		µg/Kg	1	4/14/2004
o-Xylene	ND	4.0		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Styrene	ND	4.0		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	4.0		µg/Kg	1	4/14/2004
Toluene	ND	4.0		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-25
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:00:00 AM
Lab ID:	068414-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1-Dichloroethane	14	3.8		µg/Kg	1	4/14/2004
1,1-Dichloroethene	6.3	3.8		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
2-Butanone	ND	38		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/14/2004
2-Hexanone	ND	38		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/14/2004
Acetone	ND	38		µg/Kg	1	4/14/2004
Benzene	ND	3.8		µg/Kg	1	4/14/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/14/2004
Bromoform	ND	3.8		µg/Kg	1	4/14/2004
Bromomethane	ND	3.8		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/14/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
Chloroethane	ND	3.8		µg/Kg	1	4/14/2004
Chloroform	ND	3.8		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 · Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-25
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:00:00 AM
Lab ID:	068414-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/14/2004
Cyclohexanone	ND	38		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/14/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/14/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/14/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/14/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Naphthalene	ND	3.8		µg/Kg	1	4/14/2004
o-Xylene	ND	3.8		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Styrene	ND	3.8		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Tetrachloroethene	3.9	3.8		µg/Kg	1	4/14/2004
Toluene	ND	3.8		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/14/2004
Trichloroethene	13	3.8		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/14/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-30
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:08:00 AM
Lab ID:	068414-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	8.9	4.3		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethane	32	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethene	18	4.3		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
2-Butanone	ND	43		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
2-Hexanone	ND	43		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/14/2004
Acetone	ND	43		µg/Kg	1	4/14/2004
Benzene	ND	4.3		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/14/2004
Bromoform	ND	4.3		µg/Kg	1	4/14/2004
Bromomethane	ND	4.3		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
Chloroethane	ND	4.3		µg/Kg	1	4/14/2004
Chloroform	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-30
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:08:00 AM
Lab ID:	068414-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
Cyclohexanone	ND	43		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Naphthalene	ND	4.3		µg/Kg	1	4/14/2004
o-Xylene	ND	4.3		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Styrene	ND	4.3		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Tetrachloroethene	8.6	4.3		µg/Kg	1	4/14/2004
Toluene	ND	4.3		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
Trichloroethene	27	4.3		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-35
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:17:00 AM
Lab ID:	068414-007C	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415A QC Batch: R04VS075 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	250		µg/Kg	50	4/15/2004
1,1,1-Trichloroethane	ND	250		µg/Kg	50	4/15/2004
1,1,2,2-Tetrachloroethane	ND	250		µg/Kg	50	4/15/2004
1,1,2-Trichloroethane	ND	250		µg/Kg	50	4/15/2004
1,1-Dichloroethane	ND	250		µg/Kg	50	4/15/2004
1,1-Dichloroethene	ND	250		µg/Kg	50	4/15/2004
1,1-Dichloropropene	ND	250		µg/Kg	50	4/15/2004
1,2,3-Trichlorobenzene	ND	250		µg/Kg	50	4/15/2004
1,2,3-Trichloropropane	ND	250		µg/Kg	50	4/15/2004
1,2,4-Trichlorobenzene	ND	250		µg/Kg	50	4/15/2004
1,2,4-Trimethylbenzene	ND	250		µg/Kg	50	4/15/2004
1,2-Dibromo-3-chloropropane	ND	500		µg/Kg	50	4/15/2004
1,2-Dibromoethane	ND	250		µg/Kg	50	4/15/2004
1,2-Dichlorobenzene	ND	250		µg/Kg	50	4/15/2004
1,2-Dichloroethane	ND	250		µg/Kg	50	4/15/2004
1,2-Dichloropropane	ND	250		µg/Kg	50	4/15/2004
1,3,5-Trimethylbenzene	ND	250		µg/Kg	50	4/15/2004
1,3-Dichlorobenzene	ND	250		µg/Kg	50	4/15/2004
1,3-Dichloropropane	ND	250		µg/Kg	50	4/15/2004
1,4-Dichlorobenzene	ND	250		µg/Kg	50	4/15/2004
2,2-Dichloropropane	ND	250		µg/Kg	50	4/15/2004
2-Butanone	ND	2500		µg/Kg	50	4/15/2004
2-Chlorotoluene	ND	250		µg/Kg	50	4/15/2004
2-Hexanone	ND	2500		µg/Kg	50	4/15/2004
4-Chlorotoluene	ND	250		µg/Kg	50	4/15/2004
4-Isopropyltoluene	ND	250		µg/Kg	50	4/15/2004
4-Methyl-2-pentanone	ND	2500		µg/Kg	50	4/15/2004
Acetone	ND	2500		µg/Kg	50	4/15/2004
Benzene	ND	250		µg/Kg	50	4/15/2004
Bromobenzene	ND	250		µg/Kg	50	4/15/2004
Bromodichloromethane	ND	250		µg/Kg	50	4/15/2004
Bromoform	ND	250		µg/Kg	50	4/15/2004
Bromomethane	ND	250		µg/Kg	50	4/15/2004
Carbon tetrachloride	ND	250		µg/Kg	50	4/15/2004
Chlorobenzene	ND	250		µg/Kg	50	4/15/2004
Chloroethane	ND	250		µg/Kg	50	4/15/2004
Chloroform	ND	250		µg/Kg	50	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-35
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:17:00 AM
Lab ID:	068414-007C	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040415A QC Batch: R04VS075 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	250		µg/Kg	50	4/15/2004
cis-1,2-Dichloroethene	ND	250		µg/Kg	50	4/15/2004
cis-1,3-Dichloropropene	ND	250		µg/Kg	50	4/15/2004
Cyclohexanone	ND	2500		µg/Kg	50	4/15/2004
Dibromochloromethane	ND	250		µg/Kg	50	4/15/2004
Dibromomethane	ND	250		µg/Kg	50	4/15/2004
Dichlorodifluoromethane	ND	250		µg/Kg	50	4/15/2004
Ethylbenzene	ND	250		µg/Kg	50	4/15/2004
Hexachlorobutadiene	ND	250		µg/Kg	50	4/15/2004
Isopropylbenzene	ND	250		µg/Kg	50	4/15/2004
m,p-Xylene	ND	250		µg/Kg	50	4/15/2004
Methylene chloride	ND	250		µg/Kg	50	4/15/2004
n-Butylbenzene	ND	250		µg/Kg	50	4/15/2004
n-Propylbenzene	ND	250		µg/Kg	50	4/15/2004
Naphthalene	ND	250		µg/Kg	50	4/15/2004
o-Xylene	ND	250		µg/Kg	50	4/15/2004
sec-Butylbenzene	ND	250		µg/Kg	50	4/15/2004
Styrene	ND	250		µg/Kg	50	4/15/2004
tert-Butylbenzene	ND	250		µg/Kg	50	4/15/2004
Tetrachloroethene	ND	250		µg/Kg	50	4/15/2004
Toluene	ND	250		µg/Kg	50	4/15/2004
trans-1,2-Dichloroethene	ND	250		µg/Kg	50	4/15/2004
Trichloroethene	ND	250		µg/Kg	50	4/15/2004
Trichlorofluoromethane	ND	250		µg/Kg	50	4/15/2004
Vinyl chloride	ND	250		µg/Kg	50	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-40
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:26:00 AM
Lab ID:	068414-008A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.5		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	3.5		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	3.5		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	3.5		µg/Kg	1	4/14/2004
1,1-Dichloroethane	14	3.5		µg/Kg	1	4/14/2004
1,1-Dichloroethene	5.9	3.5		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	3.5		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	3.5		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	3.5		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	6.9		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	3.5		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	3.5		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	3.5		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	3.5		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	3.5		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	3.5		µg/Kg	1	4/14/2004
2-Butanone	ND	35		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	3.5		µg/Kg	1	4/14/2004
2-Hexanone	ND	35		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	3.5		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	3.5		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	35		µg/Kg	1	4/14/2004
Acetone	ND	35		µg/Kg	1	4/14/2004
Benzene	ND	3.5		µg/Kg	1	4/14/2004
Bromobenzene	ND	3.5		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	3.5		µg/Kg	1	4/14/2004
Bromoform	ND	3.5		µg/Kg	1	4/14/2004
Bromomethane	ND	3.5		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	3.5		µg/Kg	1	4/14/2004
Chlorobenzene	ND	3.5		µg/Kg	1	4/14/2004
Chloroethane	ND	3.5		µg/Kg	1	4/14/2004
Chloroform	ND	3.5		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-40
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:26:00 AM
Lab ID:	068414-008A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.5		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	3.5		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	3.5		µg/Kg	1	4/14/2004
Cyclohexanone	ND	35		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	3.5		µg/Kg	1	4/14/2004
Dibromomethane	ND	3.5		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	3.5		µg/Kg	1	4/14/2004
Ethylbenzene	ND	3.5		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	3.5		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	3.5		µg/Kg	1	4/14/2004
m,p-Xylene	ND	3.5		µg/Kg	1	4/14/2004
Methylene chloride	ND	3.5		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	3.5		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	3.5		µg/Kg	1	4/14/2004
Naphthalene	ND	3.5		µg/Kg	1	4/14/2004
o-Xylene	ND	3.5		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	3.5		µg/Kg	1	4/14/2004
Styrene	ND	3.5		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	3.5		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	3.5		µg/Kg	1	4/14/2004
Toluene	ND	3.5		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	3.5		µg/Kg	1	4/14/2004
Trichloroethene	7.6	3.5		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	3.5		µg/Kg	1	4/14/2004
Vinyl chloride	ND	3.5		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-45
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:37:00 AM
Lab ID:	068414-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	8.8	4.0		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethane	66	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethene	39	4.0		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
2-Butanone	ND	40		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
2-Hexanone	ND	40		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/14/2004
Acetone	ND	40		µg/Kg	1	4/14/2004
Benzene	ND	4.0		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/14/2004
Bromoform	ND	4.0		µg/Kg	1	4/14/2004
Bromomethane	ND	4.0		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
Chloroethane	ND	4.0		µg/Kg	1	4/14/2004
Chloroform	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-45
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:37:00 AM
Lab ID:	068414-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414A QC Batch: R04VS073 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
Cyclohexanone	ND	40		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Naphthalene	ND	4.0		µg/Kg	1	4/14/2004
o-Xylene	ND	4.0		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Styrene	ND	4.0		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Tetrachloroethene	9.3	4.0		µg/Kg	1	4/14/2004
Toluene	ND	4.0		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichloroethene	32	4.0		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-50
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:46:00 AM
Lab ID:	068414-010A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,1-Dichloroethane	36	3.8		µg/Kg	1	4/14/2004
1,1-Dichloroethene	17	3.8		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/14/2004
2-Butanone	ND	38		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/14/2004
2-Hexanone	ND	38		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/14/2004
Acetone	ND	38		µg/Kg	1	4/14/2004
Benzene	ND	3.8		µg/Kg	1	4/14/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/14/2004
Bromoform	ND	3.8		µg/Kg	1	4/14/2004
Bromomethane	ND	3.8		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/14/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/14/2004
Chloroethane	ND	3.8		µg/Kg	1	4/14/2004
Chloroform	ND	3.8		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-50
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:46:00 AM
Lab ID:	068414-010A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/14/2004
Cyclohexanone	ND	38		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/14/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/14/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/14/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/14/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Naphthalene	ND	3.8		µg/Kg	1	4/14/2004
o-Xylene	ND	3.8		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Styrene	ND	3.8		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/14/2004
Tetrachloroethene	3.9	3.8		µg/Kg	1	4/14/2004
Toluene	ND	3.8		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/14/2004
Trichloroethene	16	3.8		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/14/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-55
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:55:00 AM
Lab ID:	068414-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethane	170	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethene	140	4.3		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
2-Butanone	ND	43		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
2-Hexanone	ND	43		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/14/2004
Acetone	ND	43		µg/Kg	1	4/14/2004
Benzene	ND	4.3		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/14/2004
Bromoform	ND	4.3		µg/Kg	1	4/14/2004
Bromomethane	ND	4.3		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
Chloroethane	ND	4.3		µg/Kg	1	4/14/2004
Chloroform	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-23-55
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 11:55:00 AM
Lab ID:	068414-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
Cyclohexanone	ND	43		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Naphthalene	ND	4.3		µg/Kg	1	4/14/2004
o-Xylene	ND	4.3		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Styrene	ND	4.3		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Tetrachloroethene	15	4.3		µg/Kg	1	4/14/2004
Toluene	ND	4.3		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
Trichloroethene	55	4.3		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-10
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 12:55:00 PM
Lab ID:	068414-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethane	4.6	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
2-Butanone	ND	43		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
2-Hexanone	ND	43		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/14/2004
Acetone	ND	43		µg/Kg	1	4/14/2004
Benzene	ND	4.3		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/14/2004
Bromoform	ND	4.3		µg/Kg	1	4/14/2004
Bromomethane	ND	4.3		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
Chloroethane	ND	4.3		µg/Kg	1	4/14/2004
Chloroform	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-10
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 12:55:00 PM
Lab ID:	068414-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
Cyclohexanone	ND	43		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Naphthalene	ND	4.3		µg/Kg	1	4/14/2004
o-Xylene	ND	4.3		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Styrene	ND	4.3		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Tetrachloroethene	6.1	4.3		µg/Kg	1	4/14/2004
Toluene	ND	4.3		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
Trichloroethene	6.3	4.3		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-15
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:05:00 PM
Lab ID:	068414-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.2		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.2		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.2		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.2		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.2		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.2		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.2		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.2		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.2		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.2		µg/Kg	1	4/14/2004
2-Butanone	ND	42		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.2		µg/Kg	1	4/14/2004
2-Hexanone	ND	42		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.2		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.2		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	42		µg/Kg	1	4/14/2004
Acetone	ND	42		µg/Kg	1	4/14/2004
Benzene	ND	4.2		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.2		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.2		µg/Kg	1	4/14/2004
Bromoform	ND	4.2		µg/Kg	1	4/14/2004
Bromomethane	ND	4.2		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.2		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.2		µg/Kg	1	4/14/2004
Chloroethane	ND	4.2		µg/Kg	1	4/14/2004
Chloroform	ND	4.2		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-15
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:05:00 PM
Lab ID:	068414-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.2		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.2		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.2		µg/Kg	1	4/14/2004
Cyclohexanone	ND	42		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.2		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.2		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.2		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.2		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.2		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.2		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.2		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.2		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.2		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.2		µg/Kg	1	4/14/2004
Naphthalene	ND	4.2		µg/Kg	1	4/14/2004
o-Xylene	ND	4.2		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.2		µg/Kg	1	4/14/2004
Styrene	ND	4.2		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.2		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	4.2		µg/Kg	1	4/14/2004
Toluene	ND	4.2		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.2		µg/Kg	1	4/14/2004
Trichloroethene	ND	4.2		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.2		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.2		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-20
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:13:00 PM
Lab ID:	068414-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,1-Dichloroethene	ND	4.9		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.9		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.9		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.9		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	9.8		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.9		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.9		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.9		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.9		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.9		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.9		µg/Kg	1	4/14/2004
2-Butanone	ND	49		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.9		µg/Kg	1	4/14/2004
2-Hexanone	ND	49		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.9		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.9		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	49		µg/Kg	1	4/14/2004
Acetone	ND	49		µg/Kg	1	4/14/2004
Benzene	ND	4.9		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.9		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.9		µg/Kg	1	4/14/2004
Bromoform	ND	4.9		µg/Kg	1	4/14/2004
Bromomethane	ND	4.9		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.9		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.9		µg/Kg	1	4/14/2004
Chloroethane	ND	4.9		µg/Kg	1	4/14/2004
Chloroform	ND	4.9		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-20
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:13:00 PM
Lab ID:	068414-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.9		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.9		µg/Kg	1	4/14/2004
Cyclohexanone	ND	49		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.9		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.9		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.9		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.9		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.9		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.9		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.9		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.9		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.9		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.9		µg/Kg	1	4/14/2004
Naphthalene	ND	4.9		µg/Kg	1	4/14/2004
o-Xylene	ND	4.9		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.9		µg/Kg	1	4/14/2004
Styrene	ND	4.9		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.9		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	4.9		µg/Kg	1	4/14/2004
Toluene	ND	4.9		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/14/2004
Trichloroethene	ND	4.9		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.9		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.9		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-25
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:30:00 PM
Lab ID:	068414-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	7.4	4.3		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,1-Dichloroethene	6.7	4.3		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.6		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/14/2004
2-Butanone	ND	43		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
2-Hexanone	ND	43		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/14/2004
Acetone	ND	43		µg/Kg	1	4/14/2004
Benzene	ND	4.3		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/14/2004
Bromoform	ND	4.3		µg/Kg	1	4/14/2004
Bromomethane	ND	4.3		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/14/2004
Chloroethane	ND	4.3		µg/Kg	1	4/14/2004
Chloroform	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-25
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:30:00 PM
Lab ID:	068414-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/14/2004
Cyclohexanone	ND	43		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Naphthalene	ND	4.3		µg/Kg	1	4/14/2004
o-Xylene	ND	4.3		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Styrene	ND	4.3		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/14/2004
Tetrachloroethene	ND	4.3		µg/Kg	1	4/14/2004
Toluene	ND	4.3		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/14/2004
Trichloroethene	ND	4.3		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-30
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:40:00 PM
Lab ID:	068414-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	9.3	4.0		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethane	4.2	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethene	7.0	4.0		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
2-Butanone	ND	40		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
2-Hexanone	ND	40		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone.	ND	40		µg/Kg	1	4/14/2004
Acetone	ND	40		µg/Kg	1	4/14/2004
Benzene	ND	4.0		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/14/2004
Bromoform	ND	4.0		µg/Kg	1	4/14/2004
Bromomethane	ND	4.0		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
Chloroethane	ND	4.0		µg/Kg	1	4/14/2004
Chloroform	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-30
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:40:00 PM
Lab ID:	068414-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
Cyclohexanone	ND	40		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Naphthalene	ND	4.0		µg/Kg	1	4/14/2004
o-Xylene	ND	4.0		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Styrene	ND	4.0		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Tetrachloroethene	4.4	4.0		µg/Kg	1	4/14/2004
Toluene	ND	4.0		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-35
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:50:00 PM
Lab ID:	068414-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	14	4.0		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethane	8.8	4.0		µg/Kg	1	4/14/2004
1,1-Dichloroethene	11	4.0		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/14/2004
2-Butanone	ND	40		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
2-Hexanone	ND	40		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/14/2004
Acetone	ND	40		µg/Kg	1	4/14/2004
Benzene	ND	4.0		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/14/2004
Bromoform	ND	4.0		µg/Kg	1	4/14/2004
Bromomethane	ND	4.0		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/14/2004
Chloroethane	ND	4.0		µg/Kg	1	4/14/2004
Chloroform	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-35
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 1:50:00 PM
Lab ID:	068414-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/14/2004
Cyclohexanone	ND	40		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Naphthalene	ND	4.0		µg/Kg	1	4/14/2004
o-Xylene	ND	4.0		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Styrene	ND	4.0		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/14/2004
Tetrachloroethene	5.1	4.0		µg/Kg	1	4/14/2004
Toluene	ND	4.0		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/14/2004
Trichloroethene	4.9	4.0		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-45
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 2:40:00 PM
Lab ID:	068414-018A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1,1-Trichloroethane	13	4.1		µg/Kg	1	4/14/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,1-Dichloroethane	27	4.1		µg/Kg	1	4/14/2004
1,1-Dichloroethene	37	4.1		µg/Kg	1	4/14/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/14/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/14/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/14/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/14/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/14/2004
2-Butanone	ND	41		µg/Kg	1	4/14/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/14/2004
2-Hexanone	ND	41		µg/Kg	1	4/14/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/14/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/14/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/14/2004
Acetone	ND	41		µg/Kg	1	4/14/2004
Benzene	ND	4.1		µg/Kg	1	4/14/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/14/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/14/2004
Bromoform	ND	4.1		µg/Kg	1	4/14/2004
Bromomethane	ND	4.1		µg/Kg	1	4/14/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/14/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/14/2004
Chloroethane	ND	4.1		µg/Kg	1	4/14/2004
Chloroform	ND	4.1		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-45
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 2:40:00 PM
Lab ID:	068414-018A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/14/2004
cis-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/14/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/14/2004
Cyclohexanone	ND	41		µg/Kg	1	4/14/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/14/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/14/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/14/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/14/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/14/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/14/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/14/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Naphthalene	ND	4.1		µg/Kg	1	4/14/2004
o-Xylene	ND	4.1		µg/Kg	1	4/14/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Styrene	ND	4.1		µg/Kg	1	4/14/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/14/2004
Tetrachloroethene	7.4	4.1		µg/Kg	1	4/14/2004
Toluene	ND	4.1		µg/Kg	1	4/14/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/14/2004
Trichloroethene	11	4.1		µg/Kg	1	4/14/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/14/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-50
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 3:00:00 PM
Lab ID:	068414-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethane	5.5	3.8		µg/Kg	1	4/15/2004
1,1-Dichloroethene	4.2	3.8		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	7.5		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/15/2004
2-Butanone	ND	38		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
2-Hexanone	ND	38		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/15/2004
Acetone	ND	38		µg/Kg	1	4/15/2004
Benzene	ND	3.8		µg/Kg	1	4/15/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/15/2004
Bromoform	ND	3.8		µg/Kg	1	4/15/2004
Bromomethane	ND	3.8		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/15/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/15/2004
Chloroethane	ND	3.8		µg/Kg	1	4/15/2004
Chloroform	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-50
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 3:00:00 PM
Lab ID:	068414-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/15/2004
Cyclohexanone	ND	38		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/15/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/15/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/15/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Naphthalene	ND	3.8		µg/Kg	1	4/15/2004
o-Xylene	ND	3.8		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Styrene	ND	3.8		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/15/2004
Tetrachloroethene	ND	3.8		µg/Kg	1	4/15/2004
Toluene	ND	3.8		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichloroethene	ND	3.8		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/15/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-55
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 3:25:00 PM
Lab ID:	068414-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/15/2004
1,1,1-Trichloroethane	10	4.4		µg/Kg	1	4/15/2004
1,1,2,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/15/2004
1,1,2-Trichloroethane	ND	4.4		µg/Kg	1	4/15/2004
1,1-Dichloroethane	40	4.4		µg/Kg	1	4/15/2004
1,1-Dichloroethene	66	4.4		µg/Kg	1	4/15/2004
1,1-Dichloropropene	ND	4.4		µg/Kg	1	4/15/2004
1,2,3-Trichlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
1,2,3-Trichloropropane	ND	4.4		µg/Kg	1	4/15/2004
1,2,4-Trichlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
1,2,4-Trimethylbenzene	ND	4.4		µg/Kg	1	4/15/2004
1,2-Dibromo-3-chloropropane	ND	8.8		µg/Kg	1	4/15/2004
1,2-Dibromoethane	ND	4.4		µg/Kg	1	4/15/2004
1,2-Dichlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
1,2-Dichloroethane	ND	4.4		µg/Kg	1	4/15/2004
1,2-Dichloropropane	ND	4.4		µg/Kg	1	4/15/2004
1,3,5-Trimethylbenzene	ND	4.4		µg/Kg	1	4/15/2004
1,3-Dichlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
1,3-Dichloropropane	ND	4.4		µg/Kg	1	4/15/2004
1,4-Dichlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
2,2-Dichloropropane	ND	4.4		µg/Kg	1	4/15/2004
2-Butanone	ND	44		µg/Kg	1	4/15/2004
2-Chlorotoluene	ND	4.4		µg/Kg	1	4/15/2004
2-Hexanone	ND	44		µg/Kg	1	4/15/2004
4-Chlorotoluene	ND	4.4		µg/Kg	1	4/15/2004
4-Isopropyltoluene	ND	4.4		µg/Kg	1	4/15/2004
4-Methyl-2-pentanone	ND	44		µg/Kg	1	4/15/2004
Acetone	ND	44		µg/Kg	1	4/15/2004
Benzene	ND	4.4		µg/Kg	1	4/15/2004
Bromobenzene	ND	4.4		µg/Kg	1	4/15/2004
Bromodichloromethane	ND	4.4		µg/Kg	1	4/15/2004
Bromoform	ND	4.4		µg/Kg	1	4/15/2004
Bromomethane	ND	4.4		µg/Kg	1	4/15/2004
Carbon tetrachloride	ND	4.4		µg/Kg	1	4/15/2004
Chlorobenzene	ND	4.4		µg/Kg	1	4/15/2004
Chloroethane	ND	4.4		µg/Kg	1	4/15/2004
Chloroform	ND	4.4		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-25-55
Lab Order:	068414		
Project:	PACCAR- Soil Sampling, 16171	**Collection Date:**	4/9/2004 3:25:00 PM
Lab ID:	068414-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040414B QC Batch: R04VS074 PrepDate 4/9/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.4		µg/Kg	1	4/15/2004
cis-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/15/2004
cis-1,3-Dichloropropene	ND	4.4		µg/Kg	1	4/15/2004
Cyclohexanone	ND	44		µg/Kg	1	4/15/2004
Dibromochloromethane	ND	4.4		µg/Kg	1	4/15/2004
Dibromomethane	ND	4.4		µg/Kg	1	4/15/2004
Dichlorodifluoromethane	ND	4.4		µg/Kg	1	4/15/2004
Ethylbenzene	ND	4.4		µg/Kg	1	4/15/2004
Hexachlorobutadiene	ND	4.4		µg/Kg	1	4/15/2004
Isopropylbenzene	ND	4.4		µg/Kg	1	4/15/2004
m,p-Xylene	ND	4.4		µg/Kg	1	4/15/2004
Methylene chloride	ND	4.4		µg/Kg	1	4/15/2004
n-Butylbenzene	ND	4.4		µg/Kg	1	4/15/2004
n-Propylbenzene	ND	4.4		µg/Kg	1	4/15/2004
Naphthalene	ND	4.4		µg/Kg	1	4/15/2004
o-Xylene	ND	4.4		µg/Kg	1	4/15/2004
sec-Butylbenzene	ND	4.4		µg/Kg	1	4/15/2004
Styrene	ND	4.4		µg/Kg	1	4/15/2004
tert-Butylbenzene	ND	4.4		µg/Kg	1	4/15/2004
Tetrachloroethene	9.1	4.4		µg/Kg	1	4/15/2004
Toluene	ND	4.4		µg/Kg	1	4/15/2004
trans-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/15/2004
Trichloroethene	15	4.4		µg/Kg	1	4/15/2004
Trichlorofluoromethane	ND	4.4		µg/Kg	1	4/15/2004
Vinyl chloride	ND	4.4		µg/Kg	1	4/15/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

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Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414MB2** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID	R040414MB2	SampType:	MBLK	TestCode:	8260_S_5035	Units:	µg/Kg	Prep Date:		Run ID:	MS3_040414A
Client ID:	ZZZZZ	Batch ID:	R04VS073	TestNo:	EPA 8260B			Analysis Date:	4/14/2004	SeqNo:	552310

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414MB3**	SampType: **MBLK**	TestCode: **8260_S_5035**	Units: **µg/Kg**	Prep Date:	Run ID: **MS3_040414B**
Client ID: **ZZZZZ**	Batch ID: **R04VS074**	TestNo: **EPA 8260B**		Analysis Date: **4/14/2004**	SeqNo: **552686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414MB3**	SampType: **MBLK**	TestCode: **8260_S_5035**	Units: **µg/Kg**	Prep Date:	Run ID: **MS3_040414B**
Client ID: **ZZZZZ**	Batch ID: **R04VS074**	TestNo: **EPA 8260B**		Analysis Date: **4/14/2004**	SeqNo: **552686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040415MB2**	SampType: **MBLK**	TestCode: **8260_S_5035**	Units: **µg/Kg**	Prep Date:	Run ID: **MS3_040415A**
Client ID: **ZZZZZ**	Batch ID: **R04VS075**	TestNo: **EPA 8260B**		Analysis Date: **4/15/2004**	SeqNo: **552944**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID R040415MB2	SampType: MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	Run ID: MS3_040415A
Client ID: ZZZZZ	Batch ID: R04VS075	TestNo: EPA 8260B		Analysis Date: 4/15/2004	SeqNo: 552944

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414LC1** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	87.11	5.0	100	0	87.1	73	138	0	0		
Benzene	112.8	5.0	100	0	113	77	128	0	0		
Chlorobenzene	119.6	5.0	100	0	120	79	120	0	0		
Toluene	113.4	5.0	100	0	113	79	126	0	0		
Trichloroethene	121.1	5.0	100	0	121	76	125	0	0		

Sample ID **R040414LC2** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414B**
Client ID: **ZZZZZ** Batch ID: **R04VS074** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	5.0	100	0	0	73	138	0	0		S
Benzene	ND	5.0	100	0	0	77	128	0	0		S
Chlorobenzene	ND	5.0	100	0	0	79	120	0	0		S
Toluene	ND	5.0	100	0	0	79	126	0	0		S
Trichloroethene	ND	5.0	100	0	0	76	125	0	0		S

Sample ID **R040415LC1** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415A**
Client ID: **ZZZZZ** Batch ID: **R04VS075** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **552940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	81.35	5.0	100	0	81.4	73	138	0	0		
Benzene	104.6	5.0	100	0	105	77	128	0	0		
Chlorobenzene	116.3	5.0	100	0	116	79	120	0	0		
Toluene	105.7	5.0	100	0	106	79	126	0	0		
Trichloroethene	112.9	5.0	100	0	113	76	125	0	0		

Sample ID **R040414MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: *ND - Not Detected at the Reporting Limit* *S - Spike Recovery outside accepted recovery limits* *DO- Surrogate dilute out*
J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
R - RPD outside accepted recovery limits **Calculations are based on raw values**

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.99	5.0	100	0	84	49	141	0	0		
Benzene	109.6	5.0	100	0	110	48	143	0	0		
Chlorobenzene	120.7	5.0	100	0	121	27	144	0	0		
Toluene	109.8	5.0	100	0	110	53	140	0	0		
Trichloroethene	117.4	5.0	100	0	117	55	146	0	0		

Sample ID **068419-001AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414B**
Client ID: **ZZZZZ** Batch ID: **R04VS074** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	5.0	100	0	0	49	141	0	0		S
Benzene	ND	5.0	100	0	0	48	143	0	0		S
Chlorobenzene	ND	5.0	100	0	0	27	144	0	0		S
Toluene	ND	5.0	100	0	0	53	140	0	0		S
Trichloroethene	ND	5.0	100	0	0	55	146	0	0		S

Sample ID **068400-003AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415A**
Client ID: **ZZZZZ** Batch ID: **R04VS075** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **552941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	77	5.0	100	0	77	49	141	0	0		
Benzene	101	5.0	100	0	101	48	143	0	0		
Chlorobenzene	110.2	5.0	100	0	110	27	144	0	0		
Toluene	101.4	5.0	100	0	101	53	140	0	0		
Trichloroethene	108.2	5.0	100	0	108	55	146	0	0		

Sample ID **R040414MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Hart Crowser, Inc.
Work Order: 068414
Project: PACCAR- Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040414MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414A**
Client ID: **ZZZZZ** Batch ID: **R04VS073** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	85.62	5.0	100	0	85.6	49	141	83.99	1.92	30	
Benzene	111.5	5.0	100	0	112	48	143	109.6	1.75	30	
Chlorobenzene	124.2	5.0	100	0	124	27	144	120.7	2.85	30	
Toluene	112	5.0	100	0	112	53	140	109.8	1.98	30	
Trichloroethene	119.9	5.0	100	0	120	55	146	117.4	2.06	30	

Sample ID **068419-001AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040414B**
Client ID: **ZZZZZ** Batch ID: **R04VS074** TestNo: **EPA 8260B** Analysis Date: **4/14/2004** SeqNo: **552685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	5.0	100	0	0	49	141	0	0	30	S
Benzene	ND	5.0	100	0	0	48	143	0	0	30	S
Chlorobenzene	ND	5.0	100	0	0	27	144	0	0	30	S
Toluene	ND	5.0	100	0	0	53	140	0	0	30	S
Trichloroethene	ND	5.0	100	0	0	55	146	0	0	30	S

Sample ID **068400-003AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040415A**
Client ID: **ZZZZZ** Batch ID: **R04VS075** TestNo: **EPA 8260B** Analysis Date: **4/15/2004** SeqNo: **552942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	79.16	5.0	100	0	79.2	49	141	77	2.77	30	
Benzene	102.3	5.0	100	0	102	48	143	101	1.30	30	
Chlorobenzene	111.7	5.0	100	0	112	27	144	110.2	1.34	30	
Toluene	103.1	5.0	100	0	103	53	140	101.4	1.69	30	
Trichloroethene	110	5.0	100	0	110	55	146	108.2	1.64	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Sample Custody Record

DATE 4/9/04 PAGE 1 OF ____

HARTCROWSER

Hart Crowser, Inc.
One World Trade Center, Suite 2300
Long Beach, California 90831-2300

JOB NUMBER 16171 LAB NUMBER ATL

PROJECT MANAGER RON HALPER

PROJECT NAME PACCAR - Soil Sampling

SAMPLED BY: Stephen & James

LAB NO.	SAMPLE	TIME	STATION	MATRIX	TESTING: 8260B VOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/COMPOSITING INSTRUCTIONS
	BL-23-5	1002		Soil	X	3	VOAs
	BL-23-10	1020		↓	↓	↓	
	BL-23-15	1033					
	BL-23-20	1050					
	BL-23-25	1100					
	BL-23-30	1108					
	BL-23-35	1117					
	BL-23-40	1126					
	BL-23-45	1137					
	BL-23-50	1146					
	BL-23-55	1155		↓	↓	↓	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4/9/04	SIGNATURE	4-9-04
STEPHEN ADU-GYAMF	TIME	M. STAGGS	TIME
PRINTED NAME	4:35p	PRINTED NAME	4:35p
HART CROWSER		A.T.L.	
COMPANY		COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4-9-04	SIGNATURE	4/9/04
M. STAGGS	TIME	[illegible]	TIME
PRINTED NAME	6:00p	PRINTED NAME	6:10
M. STAGGS		ATL	
COMPANY		COMPANY	

TOTAL NUMBER OF CONTAINERS 33

METHOD OF SHIPMENT COURIER

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS STANDARD TURNAROUND TIME

DISTRIBUTION:

1. PROVIDE WHITE AND YELLOW COPIES TO LABORATORY
2. RETURN PINK COPY TO PROJECT MANAGER
3. LABORATORY TO FILL IN SAMPLE NUMBER AND SIGN FOR RECEIPT
4. LABORATORY TO RETURN WHITE COPY TO HART CROWSER

PACCAR 03792

Sample Custody Record

DATE 4/9/04 PAGE 1 OF ____

HARTCROWSER

Hart Crowser, Inc.
One World Trade Center, Suite 2300
Long Beach, California 90831-2300

JOB NUMBER 16171 LAB NUMBER ____

PROJECT MANAGER Ron Halpern

PROJECT NAME PACCAR - Soil Sampling

SAMPLED BY: Stephen & James

LAB NO.	SAMPLE	TIME	STATION	MATRIX	TESTING: 8260 B VOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/COMPOSITING INSTRUCTIONS
	~~BL-25-5~~			Soil	X	3	W/As
	BL-25-10	1255		Soil	X		
	BL-25-15	1305					
	BL-25-20	1313					
	BL-25-25	1330					
	BL-25-30	1340					
	BL-25-35	1350					
	~~BL-25-40~~						
	BL-25-45	1440					
	BL-25-50	1500					
	BL-25-55	1525					

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4/9/04	SIGNATURE	4-9-04
PRINTED NAME: STEPHEN A. GIAMFI	TIME	PRINTED NAME: M. STAGGS	TIME
COMPANY: HART CROWSER	4:35p	COMPANY: A.T.L.	4:35p

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4-9-04	SIGNATURE	4/9/04
PRINTED NAME: M. STAGGS	TIME	PRINTED NAME: CARMEN BRUNER	TIME
COMPANY: A.T.L.	6:10p	COMPANY: ATL	6:10

TOTAL NUMBER OF CONTAINERS ~~35~~ 27 (FAX)

METHOD OF SHIPMENT: COURIER

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS: STANDARD TURN-AROUND TIME

DISTRIBUTION:
1. PROVIDE WHITE AND YELLOW COPIES TO LABORATORY
2. RETURN PINK COPY TO PROJECT MANAGER
3. LABORATORY TO FILL IN SAMPLE NUMBER AND SIGN FOR RECEIPT
4. LABORATORY TO RETURN WHITE COPY TO HART CROWSER

SAMPLES DELIVERED SUNDAY

PACCAR 03793

June 04, 2004

Ronald Halpern
Hart Crowser, Inc.
301 E. Ocean Blvd., Ste. 1950
Long Beach, CA 90802
TEL: (562) 733-1910
FAX: (562) 733-1750

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 068380

RE: PACCAR-Soil Sampling, 16171

Attention: Ronald Halpern

Enclosed are the results for sample(s) received on April 08, 2004 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Project: PACCAR-Soil Sampling, 16171
Lab Order: 068380

CASE NARRATIVE

Regenerated report to include Ketones, per client request.

Analytical Comments for Method 8260

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

For sample 068380-008C, the QC criteria was not met for the sodium bisulfate preserved vials. Results were reported from the methanol preserved vials.

Results were J-Flag for sample 068380-008C. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-5
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:00:00 AM
Lab ID:	068380-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.9		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
2-Butanone	ND	39		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	39		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/12/2004
Acetone	ND	39		µg/Kg	1	4/12/2004
Benzene	ND	3.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/12/2004
Bromoform	ND	3.9		µg/Kg	1	4/12/2004
Bromomethane	ND	3.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
Chloroethane	ND	3.9		µg/Kg	1	4/12/2004
Chloroform	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-5
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:00:00 AM
Lab ID:	068380-001A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	39		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Naphthalene	ND	3.9		µg/Kg	1	4/12/2004
o-Xylene	ND	3.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Styrene	ND	3.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Tetrachloroethene	35	3.9		µg/Kg	1	4/12/2004
Toluene	ND	3.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
Trichloroethene	42	3.9		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-10
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:20:00 AM
Lab ID:	068380-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
2-Butanone	ND	39		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	39		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/12/2004
Acetone	ND	39		µg/Kg	1	4/12/2004
Benzene	ND	3.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/12/2004
Bromoform	ND	3.9		µg/Kg	1	4/12/2004
Bromomethane	ND	3.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
Chloroethane	ND	3.9		µg/Kg	1	4/12/2004
Chloroform	7.5	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-10
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:20:00 AM
Lab ID:	068380-002A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	14	3.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	39		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Naphthalene	ND	3.9		µg/Kg	1	4/12/2004
o-Xylene	ND	3.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Styrene	ND	3.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Tetrachloroethene	150	3.9		µg/Kg	1	4/12/2004
Toluene	ND	3.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
Trichloroethene	190	3.9		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-15
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:30:00 AM
Lab ID:	068380-003A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
2-Butanone	ND	39		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	39		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/12/2004
Acetone	ND	39		µg/Kg	1	4/12/2004
Benzene	ND	3.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/12/2004
Bromoform	ND	3.9		µg/Kg	1	4/12/2004
Bromomethane	ND	3.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
Chloroethane	ND	3.9		µg/Kg	1	4/12/2004
Chloroform	5.2	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-15
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:30:00 AM
Lab ID:	068380-003A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	8.9	3.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	39		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Naphthalene	ND	3.9		µg/Kg	1	4/12/2004
o-Xylene	ND	3.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Styrene	ND	3.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Tetrachloroethene	100	3.9		µg/Kg	1	4/12/2004
Toluene	ND	3.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
Trichloroethene	130	3.9		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-20
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:35:00 AM
Lab ID:	068380-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	4.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	9.7		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	15	4.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	5.8	4.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	7.5	4.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.9		µg/Kg	1	4/12/2004
2-Butanone	ND	49		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	49		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	49		µg/Kg	1	4/12/2004
Acetone	ND	49		µg/Kg	1	4/12/2004
Benzene	ND	4.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.9		µg/Kg	1	4/12/2004
Bromoform	ND	4.9		µg/Kg	1	4/12/2004
Bromomethane	ND	4.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.9		µg/Kg	1	4/12/2004
Chloroethane	ND	4.9		µg/Kg	1	4/12/2004
Chloroform	17	4.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-20
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 10:35:00 AM
Lab ID:	068380-004A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	39	4.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	49		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	4.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.9		µg/Kg	1	4/12/2004
Naphthalene	ND	4.9		µg/Kg	1	4/12/2004
o-Xylene	ND	4.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.9		µg/Kg	1	4/12/2004
Styrene	ND	4.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.9		µg/Kg	1	4/12/2004
Tetrachloroethene	940	250		µg/Kg	50	4/13/2004
Toluene	ND	4.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.9		µg/Kg	1	4/12/2004
Trichloroethene	960	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-25
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:10:00 AM
Lab ID:	068380-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	4.9	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	18	4.1		µg/Kg	1	4/12/2004
1,2-Dichloroethane	7.4	4.1		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	11	4.1		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
2-Butanone	ND	41		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
2-Hexanone	ND	41		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/12/2004
Acetone	ND	41		µg/Kg	1	4/12/2004
Benzene	ND	4.1		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/12/2004
Bromoform	ND	4.1		µg/Kg	1	4/12/2004
Bromomethane	ND	4.1		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
Chloroethane	ND	4.1		µg/Kg	1	4/12/2004
Chloroform	18	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-25
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:10:00 AM
Lab ID:	068380-005A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	48	4.1		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
Cyclohexanone	ND	41		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/12/2004
Methylene chloride	8.6	4.1		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Naphthalene	ND	4.1		µg/Kg	1	4/12/2004
o-Xylene	ND	4.1		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Styrene	ND	4.1		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Tetrachloroethene	1300	250		µg/Kg	50	4/13/2004
Toluene	ND	4.1		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
Trichloroethene	1200	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-30
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:16:00 AM
Lab ID:	068380-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.8		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
2-Butanone	ND	39		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	39		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/12/2004
Acetone	ND	39		µg/Kg	1	4/12/2004
Benzene	ND	3.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/12/2004
Bromoform	ND	3.9		µg/Kg	1	4/12/2004
Bromomethane	ND	3.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
Chloroethane	ND	3.9		µg/Kg	1	4/12/2004
Chloroform	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-30
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:16:00 AM
Lab ID:	068380-006A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	7.6	3.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	39		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Naphthalene	ND	3.9		µg/Kg	1	4/12/2004
o-Xylene	ND	3.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Styrene	ND	3.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Tetrachloroethene	92	3.9		µg/Kg	1	4/12/2004
Toluene	ND	3.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
Trichloroethene	91	3.9		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-35
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:25:00 AM
Lab ID:	068380-007A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	5.2	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	13	4.1		µg/Kg	1	4/12/2004
1,2-Dichloroethane	6.1	4.1		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	8.4	4.1		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
2-Butanone	ND	41		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
2-Hexanone	ND	41		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/12/2004
Acetone	ND	41		µg/Kg	1	4/12/2004
Benzene	ND	4.1		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/12/2004
Bromoform	ND	4.1		µg/Kg	1	4/12/2004
Bromomethane	ND	4.1		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
Chloroethane	ND	4.1		µg/Kg	1	4/12/2004
Chloroform	13	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-35
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:25:00 AM
Lab ID:	068380-007A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	36	4.1		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
Cyclohexanone	ND	41		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/12/2004
Methylene chloride	13	4.1		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Naphthalene	ND	4.1		µg/Kg	1	4/12/2004
o-Xylene	ND	4.1		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Styrene	ND	4.1		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Tetrachloroethene	1300	250		µg/Kg	50	4/13/2004
Toluene	ND	4.1		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
Trichloroethene	1200	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-40
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:35:00 AM
Lab ID:	068380-008C	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413B QC Batch: R04VS072 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	250		µg/Kg	50	4/13/2004
1,1,1-Trichloroethane	ND	250		µg/Kg	50	4/13/2004
1,1,2,2-Tetrachloroethane	ND	250		µg/Kg	50	4/13/2004
1,1,2-Trichloroethane	ND	250		µg/Kg	50	4/13/2004
1,1-Dichloroethane	ND	250		µg/Kg	50	4/13/2004
1,1-Dichloroethene	ND	250		µg/Kg	50	4/13/2004
1,1-Dichloropropene	ND	250		µg/Kg	50	4/13/2004
1,2,3-Trichlorobenzene	ND	250		µg/Kg	50	4/13/2004
1,2,3-Trichloropropane	ND	250		µg/Kg	50	4/13/2004
1,2,4-Trichlorobenzene	ND	250		µg/Kg	50	4/13/2004
1,2,4-Trimethylbenzene	ND	250		µg/Kg	50	4/13/2004
1,2-Dibromo-3-chloropropane	ND	500		µg/Kg	50	4/13/2004
1,2-Dibromoethane	ND	250		µg/Kg	50	4/13/2004
1,2-Dichlorobenzene	ND	250		µg/Kg	50	4/13/2004
1,2-Dichloroethane	ND	250		µg/Kg	50	4/13/2004
1,2-Dichloropropane	ND	250		µg/Kg	50	4/13/2004
1,3,5-Trimethylbenzene	ND	250		µg/Kg	50	4/13/2004
1,3-Dichlorobenzene	ND	250		µg/Kg	50	4/13/2004
1,3-Dichloropropane	ND	250		µg/Kg	50	4/13/2004
1,4-Dichlorobenzene	ND	250		µg/Kg	50	4/13/2004
2,2-Dichloropropane	ND	250		µg/Kg	50	4/13/2004
2-Butanone	ND	2500		µg/Kg	50	4/13/2004
2-Chlorotoluene	ND	250		µg/Kg	50	4/13/2004
2-Hexanone	ND	2500		µg/Kg	50	4/13/2004
4-Chlorotoluene	ND	250		µg/Kg	50	4/13/2004
4-Isopropyltoluene	ND	250		µg/Kg	50	4/13/2004
4-Methyl-2-pentanone	ND	2500		µg/Kg	50	4/13/2004
Acetone	ND	2500		µg/Kg	50	4/13/2004
Benzene	ND	250		µg/Kg	50	4/13/2004
Bromobenzene	ND	250		µg/Kg	50	4/13/2004
Bromodichloromethane	ND	250		µg/Kg	50	4/13/2004
Bromoform	ND	250		µg/Kg	50	4/13/2004
Bromomethane	ND	250		µg/Kg	50	4/13/2004
Carbon tetrachloride	ND	250		µg/Kg	50	4/13/2004
Chlorobenzene	ND	250		µg/Kg	50	4/13/2004
Chloroethane	ND	250		µg/Kg	50	4/13/2004
Chloroform	ND	250		µg/Kg	50	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-40
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:35:00 AM
Lab ID:	068380-008C	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413B QC Batch: R04VS072 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	250		µg/Kg	50	4/13/2004
cis-1,2-Dichloroethene	ND	250		µg/Kg	50	4/13/2004
cis-1,3-Dichloropropene	ND	250		µg/Kg	50	4/13/2004
Cyclohexanone	ND	2500		µg/Kg	50	4/13/2004
Dibromochloromethane	ND	250		µg/Kg	50	4/13/2004
Dibromomethane	ND	250		µg/Kg	50	4/13/2004
Dichlorodifluoromethane	ND	250		µg/Kg	50	4/13/2004
Ethylbenzene	ND	250		µg/Kg	50	4/13/2004
Hexachlorobutadiene	ND	250		µg/Kg	50	4/13/2004
Isopropylbenzene	ND	250		µg/Kg	50	4/13/2004
m,p-Xylene	ND	250		µg/Kg	50	4/13/2004
Methylene chloride	ND	250		µg/Kg	50	4/13/2004
n-Butylbenzene	ND	250		µg/Kg	50	4/13/2004
n-Propylbenzene	ND	250		µg/Kg	50	4/13/2004
Naphthalene	ND	250		µg/Kg	50	4/13/2004
o-Xylene	ND	250		µg/Kg	50	4/13/2004
sec-Butylbenzene	ND	250		µg/Kg	50	4/13/2004
Styrene	ND	250		µg/Kg	50	4/13/2004
tert-Butylbenzene	ND	250		µg/Kg	50	4/13/2004
Tetrachloroethene	ND	250		µg/Kg	50	4/13/2004
Toluene	ND	250		µg/Kg	50	4/13/2004
trans-1,2-Dichloroethene	ND	250		µg/Kg	50	4/13/2004
Trichloroethene	ND	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	250		µg/Kg	50	4/13/2004
Vinyl chloride	ND	250		µg/Kg	50	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-45
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:45:00 AM
Lab ID:	068380-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	5.8	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.2		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	25	4.1		µg/Kg	1	4/12/2004
1,2-Dichloroethane	14	4.1		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	12	4.1		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
2-Butanone	ND	41		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
2-Hexanone	ND	41		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/12/2004
Acetone	ND	41		µg/Kg	1	4/12/2004
Benzene	ND	4.1		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/12/2004
Bromoform	ND	4.1		µg/Kg	1	4/12/2004
Bromomethane	ND	4.1		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
Chloroethane	ND	4.1		µg/Kg	1	4/12/2004
Chloroform	14	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-45
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:45:00 AM
Lab ID:	068380-009A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	44	4.1		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
Cyclohexanone	ND	41		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/12/2004
Methylene chloride	110	4.1		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Naphthalene	ND	4.1		µg/Kg	1	4/12/2004
o-Xylene	4.5	4.1		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Styrene	ND	4.1		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Tetrachloroethene	370	250		µg/Kg	50	4/13/2004
Toluene	ND	4.1		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
Trichloroethene	510	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-50
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:55:00 AM
Lab ID:	068380-010A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	7.9	3.8		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.8		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.8		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.5		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	33	3.8		µg/Kg	1	4/12/2004
1,2-Dichloroethane	31	3.8		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	16	3.8		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/12/2004
2-Butanone	ND	38		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/12/2004
2-Hexanone	ND	38		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/12/2004
Acetone	ND	38		µg/Kg	1	4/12/2004
Benzene	4.9	3.8		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/12/2004
Bromoform	ND	3.8		µg/Kg	1	4/12/2004
Bromomethane	ND	3.8		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/12/2004
Chloroethane	ND	3.8		µg/Kg	1	4/12/2004
Chloroform	33	3.8		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-50
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 11:55:00 AM
Lab ID:	068380-010A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS3_040412A	QC Batch: R04VS070			PrepDate	4/8/2004	Analyst: **JPC**
Chloromethane	ND	3.8		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	120	3.8		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/12/2004
Cyclohexanone	ND	38		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/12/2004
Methylene chloride	710	250		µg/Kg	50	4/13/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/12/2004
Naphthalene	ND	3.8		µg/Kg	1	4/12/2004
o-Xylene	ND	3.8		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/12/2004
Styrene	ND	3.8		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/12/2004
Tetrachloroethene	3100	250		µg/Kg	50	4/13/2004
Toluene	ND	3.8		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/12/2004
Trichloroethene	3700	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-55
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 12:05:00 PM
Lab ID:	068380-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	5.2	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethane	5.7	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethene	6.6	4.1		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	26	4.1		µg/Kg	1	4/12/2004
1,2-Dichloroethane	14	4.1		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	15	4.1		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
2-Butanone	ND	41		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
2-Hexanone	ND	41		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/12/2004
Acetone	ND	41		µg/Kg	1	4/12/2004
Benzene	8.1	4.1		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/12/2004
Bromoform	ND	4.1		µg/Kg	1	4/12/2004
Bromomethane	ND	4.1		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
Chloroethane	ND	4.1		µg/Kg	1	4/12/2004
Chloroform	40	4.1		µg/Kg	1	4/12/2004

Qualifiers:

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H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-26-55
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 12:05:00 PM
Lab ID:	068380-011A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	150	4.1		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
Cyclohexanone	ND	41		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/12/2004
Methylene chloride	6.3	4.1		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Naphthalene	ND	4.1		µg/Kg	1	4/12/2004
o-Xylene	ND	4.1		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Styrene	ND	4.1		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Tetrachloroethene	4900	500		µg/Kg	100	4/13/2004
Toluene	ND	4.1		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
Trichloroethene	7000	500		µg/Kg	100	4/13/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-5
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:27:00 PM
Lab ID:	068380-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/12/2004
2-Butanone	ND	40		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/12/2004
2-Hexanone	ND	40		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/12/2004
Acetone	ND	40		µg/Kg	1	4/12/2004
Benzene	ND	4.0		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/12/2004
Bromoform	ND	4.0		µg/Kg	1	4/12/2004
Bromomethane	ND	4.0		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/12/2004
Chloroethane	ND	4.0		µg/Kg	1	4/12/2004
Chloroform	ND	4.0		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-5
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:27:00 PM
Lab ID:	068380-012A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/12/2004
Cyclohexanone	ND	40		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/12/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/12/2004
Naphthalene	ND	4.0		µg/Kg	1	4/12/2004
o-Xylene	ND	4.0		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/12/2004
Styrene	ND	4.0		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/12/2004
Tetrachloroethene	77	4.0		µg/Kg	1	4/12/2004
Toluene	ND	4.0		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/12/2004
Trichloroethene	65	4.0		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-10
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:33:00 PM
Lab ID:	068380-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	7.7		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	3.9		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	3.9		µg/Kg	1	4/12/2004
2-Butanone	ND	39		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
2-Hexanone	ND	39		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	3.9		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	39		µg/Kg	1	4/12/2004
Acetone	ND	39		µg/Kg	1	4/12/2004
Benzene	ND	3.9		µg/Kg	1	4/12/2004
Bromobenzene	ND	3.9		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	3.9		µg/Kg	1	4/12/2004
Bromoform	ND	3.9		µg/Kg	1	4/12/2004
Bromomethane	ND	3.9		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	3.9		µg/Kg	1	4/12/2004
Chlorobenzene	ND	3.9		µg/Kg	1	4/12/2004
Chloroethane	ND	3.9		µg/Kg	1	4/12/2004
Chloroform	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-10
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:33:00 PM
Lab ID:	068380-013A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.9		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	7.1	3.9		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	3.9		µg/Kg	1	4/12/2004
Cyclohexanone	ND	39		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	3.9		µg/Kg	1	4/12/2004
Dibromomethane	ND	3.9		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Ethylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	3.9		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	3.9		µg/Kg	1	4/12/2004
m,p-Xylene	ND	3.9		µg/Kg	1	4/12/2004
Methylene chloride	ND	3.9		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Naphthalene	ND	3.9		µg/Kg	1	4/12/2004
o-Xylene	ND	3.9		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Styrene	ND	3.9		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	3.9		µg/Kg	1	4/12/2004
Tetrachloroethene	120	3.9		µg/Kg	1	4/12/2004
Toluene	ND	3.9		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	3.9		µg/Kg	1	4/12/2004
Trichloroethene	140	3.9		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	3.9		µg/Kg	1	4/12/2004
Vinyl chloride	ND	3.9		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-15
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:42:00 PM
Lab ID:	068380-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	8.1		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/12/2004
2-Butanone	ND	41		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
2-Hexanone	ND	41		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/12/2004
Acetone	ND	41		µg/Kg	1	4/12/2004
Benzene	ND	4.1		µg/Kg	1	4/12/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/12/2004
Bromoform	ND	4.1		µg/Kg	1	4/12/2004
Bromomethane	ND	4.1		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/12/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/12/2004
Chloroethane	ND	4.1		µg/Kg	1	4/12/2004
Chloroform	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-15
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 1:42:00 PM
Lab ID:	068380-014A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.1		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	6.7	4.1		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/12/2004
Cyclohexanone	ND	41		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/12/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/12/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/12/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Naphthalene	ND	4.1		µg/Kg	1	4/12/2004
o-Xylene	ND	4.1		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Styrene	ND	4.1		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/12/2004
Tetrachloroethene	100	4.1		µg/Kg	1	4/12/2004
Toluene	ND	4.1		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/12/2004
Trichloroethene	130	4.1		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/12/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-20
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:08:00 PM
Lab ID:	068380-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,1,1-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,1,2,2-Tetrachloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,1,2-Trichloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,1-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,1-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2004
1,1-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2004
1,2,3-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
1,2,3-Trichloropropane	ND	5.0		µg/Kg	1	4/12/2004
1,2,4-Trichlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
1,2,4-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2004
1,2-Dibromo-3-chloropropane	ND	10		µg/Kg	1	4/12/2004
1,2-Dibromoethane	ND	5.0		µg/Kg	1	4/12/2004
1,2-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
1,2-Dichloroethane	ND	5.0		µg/Kg	1	4/12/2004
1,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2004
1,3,5-Trimethylbenzene	ND	5.0		µg/Kg	1	4/12/2004
1,3-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
1,3-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2004
1,4-Dichlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
2,2-Dichloropropane	ND	5.0		µg/Kg	1	4/12/2004
2-Butanone	ND	50		µg/Kg	1	4/12/2004
2-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2004
2-Hexanone	ND	50		µg/Kg	1	4/12/2004
4-Chlorotoluene	ND	5.0		µg/Kg	1	4/12/2004
4-Isopropyltoluene	ND	5.0		µg/Kg	1	4/12/2004
4-Methyl-2-pentanone	ND	50		µg/Kg	1	4/12/2004
Acetone	ND	50		µg/Kg	1	4/12/2004
Benzene	ND	5.0		µg/Kg	1	4/12/2004
Bromobenzene	ND	5.0		µg/Kg	1	4/12/2004
Bromodichloromethane	ND	5.0		µg/Kg	1	4/12/2004
Bromoform	ND	5.0		µg/Kg	1	4/12/2004
Bromomethane	ND	5.0		µg/Kg	1	4/12/2004
Carbon tetrachloride	ND	5.0		µg/Kg	1	4/12/2004
Chlorobenzene	ND	5.0		µg/Kg	1	4/12/2004
Chloroethane	ND	5.0		µg/Kg	1	4/12/2004
Chloroform	ND	5.0		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-20
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:08:00 PM
Lab ID:	068380-015A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040412A QC Batch: R04VS070 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	5.0		µg/Kg	1	4/12/2004
cis-1,2-Dichloroethene	7.8	5.0		µg/Kg	1	4/12/2004
cis-1,3-Dichloropropene	ND	5.0		µg/Kg	1	4/12/2004
Cyclohexanone	ND	50		µg/Kg	1	4/12/2004
Dibromochloromethane	ND	5.0		µg/Kg	1	4/12/2004
Dibromomethane	ND	5.0		µg/Kg	1	4/12/2004
Dichlorodifluoromethane	ND	5.0		µg/Kg	1	4/12/2004
Ethylbenzene	ND	5.0		µg/Kg	1	4/12/2004
Hexachlorobutadiene	ND	5.0		µg/Kg	1	4/12/2004
Isopropylbenzene	ND	5.0		µg/Kg	1	4/12/2004
m,p-Xylene	ND	5.0		µg/Kg	1	4/12/2004
Methylene chloride	ND	5.0		µg/Kg	1	4/12/2004
n-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2004
n-Propylbenzene	ND	5.0		µg/Kg	1	4/12/2004
Naphthalene	ND	5.0		µg/Kg	1	4/12/2004
o-Xylene	ND	5.0		µg/Kg	1	4/12/2004
sec-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2004
Styrene	ND	5.0		µg/Kg	1	4/12/2004
tert-Butylbenzene	ND	5.0		µg/Kg	1	4/12/2004
Tetrachloroethene	110	5.0		µg/Kg	1	4/12/2004
Toluene	ND	5.0		µg/Kg	1	4/12/2004
trans-1,2-Dichloroethene	ND	5.0		µg/Kg	1	4/12/2004
Trichloroethene	130	5.0		µg/Kg	1	4/12/2004
Trichlorofluoromethane	ND	5.0		µg/Kg	1	4/12/2004
Vinyl chloride	ND	5.0		µg/Kg	1	4/12/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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S - Spike/Surrogate outside of limits due to matrix interfere
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-25
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:16:00 PM
Lab ID:	068380-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	4.4		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	4.4		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	4.4		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	4.4		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	8.9		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	4.4		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	4.4		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	4.4		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	4.4		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	4.4		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	4.4		µg/Kg	1	4/13/2004
2-Butanone	ND	44		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	4.4		µg/Kg	1	4/13/2004
2-Hexanone	ND	44		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	4.4		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	4.4		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	44		µg/Kg	1	4/13/2004
Acetone	ND	44		µg/Kg	1	4/13/2004
Benzene	ND	4.4		µg/Kg	1	4/13/2004
Bromobenzene	ND	4.4		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	4.4		µg/Kg	1	4/13/2004
Bromoform	ND	4.4		µg/Kg	1	4/13/2004
Bromomethane	ND	4.4		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	4.4		µg/Kg	1	4/13/2004
Chlorobenzene	ND	4.4		µg/Kg	1	4/13/2004
Chloroethane	ND	4.4		µg/Kg	1	4/13/2004
Chloroform	7.8	4.4		µg/Kg	1	4/13/2004

Qualifiers:

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Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-25
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:16:00 PM
Lab ID:	068380-016A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.4		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	37	4.4		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	4.4		µg/Kg	1	4/13/2004
Cyclohexanone	ND	44		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	4.4		µg/Kg	1	4/13/2004
Dibromomethane	ND	4.4		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	4.4		µg/Kg	1	4/13/2004
Ethylbenzene	ND	4.4		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	4.4		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	4.4		µg/Kg	1	4/13/2004
m,p-Xylene	ND	4.4		µg/Kg	1	4/13/2004
Methylene chloride	ND	4.4		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	4.4		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	4.4		µg/Kg	1	4/13/2004
Naphthalene	ND	4.4		µg/Kg	1	4/13/2004
o-Xylene	ND	4.4		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	4.4		µg/Kg	1	4/13/2004
Styrene	ND	4.4		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	4.4		µg/Kg	1	4/13/2004
Tetrachloroethene	620	250		µg/Kg	50	4/13/2004
Toluene	ND	4.4		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	4.4		µg/Kg	1	4/13/2004
Trichloroethene	680	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.4		µg/Kg	1	4/13/2004
Vinyl chloride	ND	4.4		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-30
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:25:00 PM
Lab ID:	068380-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	4.5		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	4.5		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	4.5		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	4.5		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	9.1		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	4.5		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	4.5		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	4.5		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	4.5		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	4.5		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	4.5		µg/Kg	1	4/13/2004
2-Butanone	ND	45		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	4.5		µg/Kg	1	4/13/2004
2-Hexanone	ND	45		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	4.5		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	4.5		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	45		µg/Kg	1	4/13/2004
Acetone	ND	45		µg/Kg	1	4/13/2004
Benzene	ND	4.5		µg/Kg	1	4/13/2004
Bromobenzene	ND	4.5		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	4.5		µg/Kg	1	4/13/2004
Bromoform	ND	4.5		µg/Kg	1	4/13/2004
Bromomethane	ND	4.5		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	4.5		µg/Kg	1	4/13/2004
Chlorobenzene	ND	4.5		µg/Kg	1	4/13/2004
Chloroethane	ND	4.5		µg/Kg	1	4/13/2004
Chloroform	4.9	4.5		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-30
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:25:00 PM
Lab ID:	068380-017A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.5		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	19	4.5		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	4.5		µg/Kg	1	4/13/2004
Cyclohexanone	ND	45		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	4.5		µg/Kg	1	4/13/2004
Dibromomethane	ND	4.5		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	4.5		µg/Kg	1	4/13/2004
Ethylbenzene	ND	4.5		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	4.5		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	4.5		µg/Kg	1	4/13/2004
m,p-Xylene	ND	4.5		µg/Kg	1	4/13/2004
Methylene chloride	ND	4.5		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	4.5		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	4.5		µg/Kg	1	4/13/2004
Naphthalene	ND	4.5		µg/Kg	1	4/13/2004
o-Xylene	ND	4.5		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	4.5		µg/Kg	1	4/13/2004
Styrene	ND	4.5		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	4.5		µg/Kg	1	4/13/2004
Tetrachloroethene	220	4.5		µg/Kg	1	4/13/2004
Toluene	ND	4.5		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	4.5		µg/Kg	1	4/13/2004
Trichloroethene	270	4.5		µg/Kg	1	4/13/2004
Trichlorofluoromethane	ND	4.5		µg/Kg	1	4/13/2004
Vinyl chloride	ND	4.5		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-35
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:35:00 PM
Lab ID:	068380-018A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	4.1		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	4.1		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	4.1		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	4.1		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	8.3		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	4.1		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	4.1		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	4.1		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	4.1		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	4.1		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	4.1		µg/Kg	1	4/13/2004
2-Butanone	ND	41		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	4.1		µg/Kg	1	4/13/2004
2-Hexanone	ND	41		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	4.1		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	4.1		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	41		µg/Kg	1	4/13/2004
Acetone	ND	41		µg/Kg	1	4/13/2004
Benzene	ND	4.1		µg/Kg	1	4/13/2004
Bromobenzene	ND	4.1		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	4.1		µg/Kg	1	4/13/2004
Bromoform	ND	4.1		µg/Kg	1	4/13/2004
Bromomethane	ND	4.1		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	4.1		µg/Kg	1	4/13/2004
Chlorobenzene	ND	4.1		µg/Kg	1	4/13/2004
Chloroethane	ND	4.1		µg/Kg	1	4/13/2004
Chloroform	8.8	4.1		µg/Kg	1	4/13/2004

Qualifiers:

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S - Spike/Surrogate outside of limits due to matrix interfere
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-35
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:35:00 PM
Lab ID:	068380-018A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS						
				EPA 8260B		
RunID: MS3_040413A	QC Batch: R04VS071			PrepDate	4/8/2004	Analyst: JPC
Chloromethane	ND	4.1		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	43	4.1		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	4.1		µg/Kg	1	4/13/2004
Cyclohexanone	ND	41		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	4.1		µg/Kg	1	4/13/2004
Dibromomethane	ND	4.1		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	4.1		µg/Kg	1	4/13/2004
Ethylbenzene	ND	4.1		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	4.1		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	4.1		µg/Kg	1	4/13/2004
m,p-Xylene	ND	4.1		µg/Kg	1	4/13/2004
Methylene chloride	ND	4.1		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	4.1		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	4.1		µg/Kg	1	4/13/2004
Naphthalene	ND	4.1		µg/Kg	1	4/13/2004
o-Xylene	ND	4.1		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	4.1		µg/Kg	1	4/13/2004
Styrene	ND	4.1		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	4.1		µg/Kg	1	4/13/2004
Tetrachloroethene	690	250		µg/Kg	50	4/13/2004
Toluene	ND	4.1		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	4.1		µg/Kg	1	4/13/2004
Trichloroethene	810	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.1		µg/Kg	1	4/13/2004
Vinyl chloride	ND	4.1		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-40
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:50:00 PM
Lab ID:	068380-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	4.3		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	4.3		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	4.3		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	4.3		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	8.5		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	4.3		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	4.3		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	4.3		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	4.3		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	4.3		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	4.3		µg/Kg	1	4/13/2004
2-Butanone	ND	43		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	4.3		µg/Kg	1	4/13/2004
2-Hexanone	ND	43		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	4.3		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	4.3		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	43		µg/Kg	1	4/13/2004
Acetone	ND	43		µg/Kg	1	4/13/2004
Benzene	ND	4.3		µg/Kg	1	4/13/2004
Bromobenzene	ND	4.3		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	4.3		µg/Kg	1	4/13/2004
Bromoform	ND	4.3		µg/Kg	1	4/13/2004
Bromomethane	ND	4.3		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	4.3		µg/Kg	1	4/13/2004
Chlorobenzene	ND	4.3		µg/Kg	1	4/13/2004
Chloroethane	ND	4.3		µg/Kg	1	4/13/2004
Chloroform	4.4	4.3		µg/Kg	1	4/13/2004

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-40
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:50:00 PM
Lab ID:	068380-019A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.3		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	17	4.3		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	4.3		µg/Kg	1	4/13/2004
Cyclohexanone	ND	43		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	4.3		µg/Kg	1	4/13/2004
Dibromomethane	ND	4.3		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	4.3		µg/Kg	1	4/13/2004
Ethylbenzene	ND	4.3		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	4.3		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	4.3		µg/Kg	1	4/13/2004
m,p-Xylene	ND	4.3		µg/Kg	1	4/13/2004
Methylene chloride	ND	4.3		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	4.3		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	4.3		µg/Kg	1	4/13/2004
Naphthalene	ND	4.3		µg/Kg	1	4/13/2004
o-Xylene	ND	4.3		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	4.3		µg/Kg	1	4/13/2004
Styrene	ND	4.3		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	4.3		µg/Kg	1	4/13/2004
Tetrachloroethene	130	4.3		µg/Kg	1	4/13/2004
Toluene	ND	4.3		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	4.3		µg/Kg	1	4/13/2004
Trichloroethene	190	4.3		µg/Kg	1	4/13/2004
Trichlorofluoromethane	ND	4.3		µg/Kg	1	4/13/2004
Vinyl chloride	ND	4.3		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-45
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:58:00 PM
Lab ID:	068380-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	4.0		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	4.0		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	4.0		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	4.0		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	4.0		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	4.0		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	8.0		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	4.0		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	6.5	4.0		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	4.0		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	4.0		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	4.0		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	4.0		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	4.0		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	5.1	4.0		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	4.0		µg/Kg	1	4/13/2004
2-Butanone	ND	40		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	4.0		µg/Kg	1	4/13/2004
2-Hexanone	ND	40		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	4.0		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	4.0		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	40		µg/Kg	1	4/13/2004
Acetone	ND	40		µg/Kg	1	4/13/2004
Benzene	ND	4.0		µg/Kg	1	4/13/2004
Bromobenzene	ND	4.0		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	4.0		µg/Kg	1	4/13/2004
Bromoform	ND	4.0		µg/Kg	1	4/13/2004
Bromomethane	ND	4.0		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	4.0		µg/Kg	1	4/13/2004
Chlorobenzene	ND	4.0		µg/Kg	1	4/13/2004
Chloroethane	ND	4.0		µg/Kg	1	4/13/2004
Chloroform	19	4.0		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-45
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 2:58:00 PM
Lab ID:	068380-020A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	4.0		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	100	4.0		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	4.0		µg/Kg	1	4/13/2004
Cyclohexanone	ND	40		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	4.0		µg/Kg	1	4/13/2004
Dibromomethane	ND	4.0		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	4.0		µg/Kg	1	4/13/2004
Ethylbenzene	ND	4.0		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	4.0		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	4.0		µg/Kg	1	4/13/2004
m,p-Xylene	ND	4.0		µg/Kg	1	4/13/2004
Methylene chloride	ND	4.0		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	4.0		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	4.0		µg/Kg	1	4/13/2004
Naphthalene	ND	4.0		µg/Kg	1	4/13/2004
o-Xylene	ND	4.0		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	4.0		µg/Kg	1	4/13/2004
Styrene	ND	4.0		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	4.0		µg/Kg	1	4/13/2004
Tetrachloroethene	1600	250		µg/Kg	50	4/13/2004
Toluene	ND	4.0		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	4.0		µg/Kg	1	4/13/2004
Trichloroethene	1800	250		µg/Kg	50	4/13/2004
Trichlorofluoromethane	ND	4.0		µg/Kg	1	4/13/2004
Vinyl chloride	ND	4.0		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-50
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 3:10:00 PM
Lab ID:	068380-021A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	3.6		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	3.6		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	3.6		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	3.6		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	7.2		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	3.6		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	3.6		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	3.6		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	3.6		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	3.6		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	3.6		µg/Kg	1	4/13/2004
2-Butanone	ND	36		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	3.6		µg/Kg	1	4/13/2004
2-Hexanone	ND	36		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	3.6		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	3.6		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	36		µg/Kg	1	4/13/2004
Acetone	ND	36		µg/Kg	1	4/13/2004
Benzene	ND	3.6		µg/Kg	1	4/13/2004
Bromobenzene	ND	3.6		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	3.6		µg/Kg	1	4/13/2004
Bromoform	ND	3.6		µg/Kg	1	4/13/2004
Bromomethane	ND	3.6		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	3.6		µg/Kg	1	4/13/2004
Chlorobenzene	ND	3.6		µg/Kg	1	4/13/2004
Chloroethane	ND	3.6		µg/Kg	1	4/13/2004
Chloroform	6.6	3.6		µg/Kg	1	4/13/2004

Qualifiers:

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S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-50
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 3:10:00 PM
Lab ID:	068380-021A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.6		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	35	3.6		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	3.6		µg/Kg	1	4/13/2004
Cyclohexanone	ND	36		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	3.6		µg/Kg	1	4/13/2004
Dibromomethane	ND	3.6		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	3.6		µg/Kg	1	4/13/2004
Ethylbenzene	ND	3.6		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	3.6		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	3.6		µg/Kg	1	4/13/2004
m,p-Xylene	ND	3.6		µg/Kg	1	4/13/2004
Methylene chloride	ND	3.6		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	3.6		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	3.6		µg/Kg	1	4/13/2004
Naphthalene	ND	3.6		µg/Kg	1	4/13/2004
o-Xylene	ND	3.6		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	3.6		µg/Kg	1	4/13/2004
Styrene	ND	3.6		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	3.6		µg/Kg	1	4/13/2004
Tetrachloroethene	1700	250		µg/Kg	50	4/14/2004
Toluene	ND	3.6		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	3.6		µg/Kg	1	4/13/2004
Trichloroethene	2400	250		µg/Kg	50	4/14/2004
Trichlorofluoromethane	ND	3.6		µg/Kg	1	4/13/2004
Vinyl chloride	ND	3.6		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-55
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 3:17:00 PM
Lab ID:	068380-022A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: **JPC**

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,1,1-Trichloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,1,2,2-Tetrachloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,1,2-Trichloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,1-Dichloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,1-Dichloroethene	ND	3.8		µg/Kg	1	4/13/2004
1,1-Dichloropropene	ND	3.8		µg/Kg	1	4/13/2004
1,2,3-Trichlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
1,2,3-Trichloropropane	ND	3.8		µg/Kg	1	4/13/2004
1,2,4-Trichlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
1,2,4-Trimethylbenzene	ND	3.8		µg/Kg	1	4/13/2004
1,2-Dibromo-3-chloropropane	ND	7.6		µg/Kg	1	4/13/2004
1,2-Dibromoethane	ND	3.8		µg/Kg	1	4/13/2004
1,2-Dichlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
1,2-Dichloroethane	ND	3.8		µg/Kg	1	4/13/2004
1,2-Dichloropropane	ND	3.8		µg/Kg	1	4/13/2004
1,3,5-Trimethylbenzene	ND	3.8		µg/Kg	1	4/13/2004
1,3-Dichlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
1,3-Dichloropropane	ND	3.8		µg/Kg	1	4/13/2004
1,4-Dichlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
2,2-Dichloropropane	ND	3.8		µg/Kg	1	4/13/2004
2-Butanone	ND	38		µg/Kg	1	4/13/2004
2-Chlorotoluene	ND	3.8		µg/Kg	1	4/13/2004
2-Hexanone	ND	38		µg/Kg	1	4/13/2004
4-Chlorotoluene	ND	3.8		µg/Kg	1	4/13/2004
4-Isopropyltoluene	ND	3.8		µg/Kg	1	4/13/2004
4-Methyl-2-pentanone	ND	38		µg/Kg	1	4/13/2004
Acetone	ND	38		µg/Kg	1	4/13/2004
Benzene	ND	3.8		µg/Kg	1	4/13/2004
Bromobenzene	ND	3.8		µg/Kg	1	4/13/2004
Bromodichloromethane	ND	3.8		µg/Kg	1	4/13/2004
Bromoform	ND	3.8		µg/Kg	1	4/13/2004
Bromomethane	ND	3.8		µg/Kg	1	4/13/2004
Carbon tetrachloride	ND	3.8		µg/Kg	1	4/13/2004
Chlorobenzene	ND	3.8		µg/Kg	1	4/13/2004
Chloroethane	ND	3.8		µg/Kg	1	4/13/2004
Chloroform	14	3.8		µg/Kg	1	4/13/2004

Qualifiers:

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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	BL-27-55
Lab Order:	068380		
Project:	PACCAR-Soil Sampling, 16171	**Collection Date:**	4/8/2004 3:17:00 PM
Lab ID:	068380-022A	**Matrix:**	SOIL

VOLATILE ORGANIC COMPOUNDS BY GC/MS

EPA 8260B

RunID: MS3_040413A QC Batch: R04VS071 PrepDate 4/8/2004 Analyst: JPC

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Chloromethane	ND	3.8		µg/Kg	1	4/13/2004
cis-1,2-Dichloroethene	78	3.8		µg/Kg	1	4/13/2004
cis-1,3-Dichloropropene	ND	3.8		µg/Kg	1	4/13/2004
Cyclohexanone	ND	38		µg/Kg	1	4/13/2004
Dibromochloromethane	ND	3.8		µg/Kg	1	4/13/2004
Dibromomethane	ND	3.8		µg/Kg	1	4/13/2004
Dichlorodifluoromethane	ND	3.8		µg/Kg	1	4/13/2004
Ethylbenzene	ND	3.8		µg/Kg	1	4/13/2004
Hexachlorobutadiene	ND	3.8		µg/Kg	1	4/13/2004
Isopropylbenzene	ND	3.8		µg/Kg	1	4/13/2004
m,p-Xylene	ND	3.8		µg/Kg	1	4/13/2004
Methylene chloride	ND	3.8		µg/Kg	1	4/13/2004
n-Butylbenzene	ND	3.8		µg/Kg	1	4/13/2004
n-Propylbenzene	ND	3.8		µg/Kg	1	4/13/2004
Naphthalene	ND	3.8		µg/Kg	1	4/13/2004
o-Xylene	ND	3.8		µg/Kg	1	4/13/2004
sec-Butylbenzene	ND	3.8		µg/Kg	1	4/13/2004
Styrene	ND	3.8		µg/Kg	1	4/13/2004
tert-Butylbenzene	ND	3.8		µg/Kg	1	4/13/2004
Tetrachloroethene	1800	250		µg/Kg	50	4/14/2004
Toluene	ND	3.8		µg/Kg	1	4/13/2004
trans-1,2-Dichloroethene	ND	3.8		µg/Kg	1	4/13/2004
Trichloroethene	2500	250		µg/Kg	50	4/14/2004
Trichlorofluoromethane	ND	3.8		µg/Kg	1	4/13/2004
Vinyl chloride	ND	3.8		µg/Kg	1	4/13/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *04-Jun-04*

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040412MB1** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

PACCAR 03840

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID	R040412MB1	SampType:	MBLK	TestCode: 8260_S_5035	Units: µg/Kg	Prep Date:	Run ID: MS3_040412A
Client ID:	ZZZZZ	Batch ID:	R04VS070	TestNo: EPA 8260B		Analysis Date: 4/12/2004	SeqNo: 550540

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID	R040413MB2	SampType:	MBLK	TestCode:	8260_S_5035	Units:	µg/Kg	Prep Date:		Run ID:	MS3_040413A
Client ID:	ZZZZZ	Batch ID:	R04VS071	TestNo:	EPA 8260B			Analysis Date:	4/13/2004	SeqNo:	551704

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040413MB2** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413A**
Client ID: **ZZZZZ** Batch ID: **R04VS071** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551704**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040413MB3** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413B**
Client ID: **ZZZZZ** Batch ID: **R04VS072** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040413MB3** SampType: **MBLK** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413B**
Client ID: **ZZZZZ** Batch ID: **R04VS072** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Dibromochloromethane	ND	5.0									
Dibromomethane	ND	5.0									
Dichlorodifluoromethane	ND	5.0									
Ethylbenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
n-Butylbenzene	ND	5.0									
n-Propylbenzene	ND	5.0									
Naphthalene	ND	5.0									
o-Xylene	ND	5.0									
sec-Butylbenzene	ND	5.0									
Styrene	ND	5.0									
tert-Butylbenzene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	5.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **R040412LC1** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550537**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	83.58	5.0	100	0	83.6	73	138	0	0		
Benzene	109.1	5.0	100	0	109	77	128	0	0		
Chlorobenzene	119.2	5.0	100	0	119	79	120	0	0		
Toluene	109.6	5.0	100	0	110	79	126	0	0		
Trichloroethene	116.6	5.0	100	0	117	76	125	0	0		

Sample ID **R040413LC1** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413A**
Client ID: **ZZZZZ** Batch ID: **R04VS071** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551701**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	82.86	5.0	100	0	82.9	73	138	0	0		
Benzene	109	5.0	100	0	109	77	128	0	0		
Chlorobenzene	119.5	5.0	100	0	120	79	120	0	0		
Toluene	109.5	5.0	100	0	109	79	126	0	0		
Trichloroethene	116.6	5.0	100	0	117	76	125	0	0		

Sample ID **R040413LC2** SampType: **LCS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413B**
Client ID: **ZZZZZ** Batch ID: **R04VS072** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551927**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	89.21	5.0	100	0	89.2	73	138	0	0		
Benzene	113.5	5.0	100	0	114	77	128	0	0		
Chlorobenzene	118.2	5.0	100	0	118	79	120	0	0		
Toluene	115	5.0	100	0	115	79	126	0	0		
Trichloroethene	122.1	5.0	100	0	122	76	125	0	0		

Sample ID **068407-031AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **068407-031AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550538**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	81.95	5.0	100	0	82	49	141	0	0		
Benzene	108.3	5.0	100	0	108	48	143	0	0		
Chlorobenzene	116.2	5.0	100	0	116	27	144	0	0		
Toluene	108.2	5.0	100	0	108	53	140	0	0		
Trichloroethene	117.6	5.0	100	0	118	55	146	0	0		

Sample ID **R040413MB1MS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413A**
Client ID: **ZZZZZ** Batch ID: **R04VS071** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551702**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	84.9	5.0	100	0	84.9	49	141	0	0		
Benzene	110.7	5.0	100	0	111	48	143	0	0		
Chlorobenzene	122.9	5.0	100	0	123	27	144	0	0		
Toluene	111	5.0	100	0	111	53	140	0	0		
Trichloroethene	118.2	5.0	100	0	118	55	146	0	0		

Sample ID **068399-005AMS** SampType: **MS** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413B**
Client ID: **ZZZZZ** Batch ID: **R04VS072** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	95.53	5.0	100	0	95.5	49	141	0	0		
Benzene	102.3	5.0	100	0	102	48	143	0	0		
Chlorobenzene	106.3	5.0	100	0	106	27	144	0	0		
Toluene	101.4	5.0	100	0	101	53	140	0	0		
Trichloroethene	190.1	5.0	100	0	190	55	146	0	0		S

Sample ID **068407-031AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Hart Crowser, Inc.
Work Order: 068380
Project: PACCAR-Soil Sampling, 16171

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260_S_5035

Sample ID **068407-031AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040412A**
Client ID: **ZZZZZ** Batch ID: **R04VS070** TestNo: **EPA 8260B** Analysis Date: **4/12/2004** SeqNo: **550539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	79.97	5.0	100	0	80	49	141	81.95	2.45	30	
Benzene	103.2	5.0	100	0	103	48	143	108.3	4.85	30	
Chlorobenzene	111.4	5.0	100	0	111	27	144	116.2	4.28	30	
Toluene	103.8	5.0	100	0	104	53	140	108.2	4.17	30	
Trichloroethene	113.5	5.0	100	0	114	55	146	117.6	3.49	30	

Sample ID **R040413MB1MSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413A**
Client ID: **ZZZZZ** Batch ID: **R04VS071** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551703**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	85.36	5.0	100	0	85.4	49	141	84.9	0.540	30	
Benzene	111.9	5.0	100	0	112	48	143	110.7	1.06	30	
Chlorobenzene	125.2	5.0	100	0	125	27	144	122.9	1.88	30	
Toluene	112.9	5.0	100	0	113	53	140	111	1.69	30	
Trichloroethene	120.4	5.0	100	0	120	55	146	118.2	1.90	30	

Sample ID **068399-005AMSD** SampType: **MSD** TestCode: **8260_S_5035** Units: **µg/Kg** Prep Date: Run ID: **MS3_040413B**
Client ID: **ZZZZZ** Batch ID: **R04VS072** TestNo: **EPA 8260B** Analysis Date: **4/13/2004** SeqNo: **551878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	93.73	5.0	100	0	93.7	49	141	95.53	1.90	30	
Benzene	98.26	5.0	100	0	98.3	48	143	102.3	4.01	30	
Chlorobenzene	100.2	5.0	100	0	100	27	144	106.3	5.92	30	
Toluene	96.24	5.0	100	0	96.2	53	140	101.4	5.23	30	
Trichloroethene	183	5.0	100	0	183	55	146	190.1	3.85	30	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

Sample Custody Record

Samples Shipped to: ATL

HARTCROWSER

Hart Crowser, Inc.
1910 Fairview Avenue East
Seattle, Washington 98102-3699
Phone: 206-324-9530 FAX: 206-328-5581

JOB 16171 LAB NUMBER

PROJECT NAME PACCAR - Soil Sampling

HART CROWSER CONTACT Ron Halpern

SAMPLED BY: Stephen & James

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	8260B VOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
-012	BL-27-5		4/8/04	1327	Soil	X	3	VOAs
-013	BL-27-10			1333				
-014	BL-27-15			1342				
-015	BL-27-20			1408				
-016	BL-27-25			1416				
-017	BL-27-30			1425				
-018	BL-27-35			1435				
-019	BL-27-40			1450				
-020	BL-27-45			1458				
-021	BL-27-50			1510				
-022	BL-27-55			1517				

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4/8/04	SIGNATURE	4/8/04
PRINT NAME James Brady	TIME	PRINT NAME	TIME
COMPANY HC	1700	COMPANY ATL	5:00 pm

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE	
PRINT NAME	TIME	PRINT NAME	TIME
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

33 TOTAL NUMBER OF CONTAINERS

TURNAROUND TIME:

- ☐ 24 HOURS
- ☐ 48 HOURS
- ☐ 72 HOURS
- ☐ 1 WEEK
- ☒ STANDARD
- OTHER _____

PACCAR 03849

Sample Custody Record

Samples Shipped to: ATL

HARTCROWSER

Hart Crowser, Inc.
1910 Fairview Avenue East
Seattle, Washington 98102-3699
Phone: 206-324-9530 FAX: 206-328-5581

JOB 16171 LAB NUMBER

PROJECT NAME PACCAR - Soil Sampling

HART CROWSER CONTACT Ron Halpern

SAMPLED BY: Stephen & James S

REQUESTED ANALYSIS: 8260B VOCs

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	8260B VOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
OV8360-1	BL-26-5		4/8/04	1000	Soil	X	3	VOAs
-2	BL-26-10			1020				
-3	BL-26-15			1030				
-4	BL-26-20			1035				
-5	BL-26-25			1110				
-6	BL-26-30			1116				
-7	BL-26-35			1125				
-8	BL-26-40			1135				
-9	BL-26-45			1145				
-10	BL-26-50			1155				
-11	BL-26-55			1205				

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	4/8/04	SIGNATURE	4/8/04
PRINT NAME James Brady	TIME	PRINT NAME	TIME
COMPANY HC	1700	COMPANY ATL	5:10 pm

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

33 TOTAL NUMBER OF CONTAINERS

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TURNAROUND TIME:
- ☐ 24 HOURS
- ☐ 48 HOURS
- ☐ 72 HOURS
- ☐ 1 WEEK
- ☒ STANDARD
- OTHER _____

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

PACCAR 03850

APPENDIX E
ANALYTICAL LABORATORY REPORTS FOR ROLL OFF CONTAINERS (JONES ENVIRONMENTAL, INC.)

Appendix E

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	HART CROWSER, INC.	**Report Date:**	07/06/04
Client Address:	1910 Fairview Avenue East	**JEL Ref. No.:**	ST-1411
	Seattle, WA 98102-3699	**Client Ref. No.:**	16171-00
Attn:	Barry Kellems	**Date Sampled:**	06/29/04
		Date Received:	06/29/04
Project:	PACCAR, CA	**Date Analyzed:**	07/01/04
	Additional Assessment	**Physical State:**	Soil

ANALYSES REQUESTED

1. Mod 8015 Diesel - Simulated Distillation Extended Range (EPA 2887)
2. EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	HART CROWSER, INC.	**Report Date:**	07/06/04
Client Address:	1910 Fairview Avenue East Seattle, WA 98102-3699	**JEL Ref. No.:** **Client Ref. No.:**	ST-1411 16171-00
Attn:	Barry Kellems	**Date Sampled:** **Date Received:**	06/29/04 06/29/04
Project:	PACCAR, CA Additional Assessment	**Date Analyzed:** **Physical State:**	07/01/04 Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

	Sample ID Concentration (mg/Kg)	
Carbon Chain Range	ROB-01	ROB-02
C6-C7	ND	ND
C8-C9	ND	ND
C10-C11	ND	ND
C12-C13	ND	ND
C14-C15	ND	ND
C16-C17	ND	ND
C18-C19	ND	ND
C20-C23	ND	ND
C24-C27	ND	ND
C28-C31	ND	ND
C32-C35	ND	ND
C36-C39	ND	ND
C40-C43	ND	ND
C44+	ND	ND
Total	ND	ND
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	103%	97%
Dilution Factor	1	1
Practical Quantitation limits	10	10

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

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(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	HART CROWSER, INC.	**Report Date:**	07/06/04
Client Address:	1910 Fairview Avenue East Seattle, WA 98102-3699	**JEL Ref. No.:** **Client Ref. No.:**	ST-1411 16171-00
Attn:	Barry Kellems	**Date Sampled:** **Date Received:**	06/29/04 06/29/04
Project:	PACCAR, CA Additional Assessment	**Date Analyzed:** **Physical State:**	07/01/04 Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: B1-D25

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	101%	86%	16.6%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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JONES ENVIRONMENTAL

LABORATORY RESULTS

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Attn:	Barry Kellems	**Date Sampled:** **Date Received:**	06/29/04 06/29/04
Project:	PACCAR, CA Additional Assessment	**Date Analyzed:** **Physical State:**	07/01/04 Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	ROB-01	ROB-02	Practical Quantitation Limits	Units
Analytes:				
Benzene	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	1.0	ug/Kg
n-Butylbenzene	**25**	ND	1.0	ug/Kg
sec-Butylbenzene	ND	ND	1.0	ug/Kg
tert-Butylbenzene	ND	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	1.0	ug/Kg
Chloroform	ND	ND	1.0	ug/Kg
Chloromethane	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected

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LABORATORY RESULTS

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Attn:	Barry Kellems	**Date Sampled:** **Date Received:**	06/29/04 06/29/04
Project:	PACCAR, CA Additional Assessment	**Date Analyzed:** **Physical State:**	07/01/04 Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	ROB-01	ROB-02	Practical Quantitation Limits	Units
Analytes:				
1,2-Dichloroethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
Ethylbenzene	**5.6**	ND	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	1.0	ug/Kg
Isopropylbenzene	ND	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	ND	1.0	ug/Kg
Methylene chloride	ND	ND	1.0	ug/Kg
Naphthalene	ND	ND	1.0	ug/Kg
n-Propylbenzene	ND	ND	1.0	ug/Kg
Styrene	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
Tetrachloroethylene	ND	ND	1.0	ug/Kg
Toluene	ND	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected

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Project:	PACCAR, CA Additional Assessment	**Date Analyzed:** **Physical State:**	07/01/04 Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	ROB-01	ROB-02	Practical Quantitation Limits	Units
Analytes:				
1,1,2-Trichloroethane	ND	ND	1.0	ug/Kg
Trichloroethylene	ND	ND	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	**32**	ND	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	1.0	ug/Kg
Xylenes	**14**	ND	1.0	ug/Kg
MTBE	ND	ND	1.0	ug/Kg
Ethyl-tert-butylether	ND	ND	1.0	ug/Kg
Di-isopropylether	ND	ND	1.0	ug/Kg
tert-amylmethylether	ND	ND	1.0	ug/Kg
tert-Butylalcohol	ND	ND	5.0	ug/Kg
Dilution Factor	1	1		
Surrogate Recovery :			**QC Limits**	
Dibromofluoromethane	92%	92%	60 - 140	
Toluene-d_8	97%	91%	60 - 140	
4-Bromofluorobenzene	93%	90%	60 - 140	

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	HART CROWSER, INC.	**Report Date:**	07/06/04
Client Address:	1910 Fairview Avenue East Seattle, WA 98102-3699	**JEL Ref. No.:**	ST-1411
		Client Ref. No.:	16171-00
Attn:	Barry Kellems	**Date Sampled:**	06/29/04
		Date Received:	06/29/04
Project:	PACCAR, CA Additional Assessment	**Date Analyzed:**	07/01/04
		Physical State:	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: DE

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	99%	97%	2.1%	60 - 140
Chlorobenzene	100%	92%	9.1%	60 - 140
Toluene	92%	91%	1.5%	60 - 140
Trichloroethylene	92%	87%	5.4%	60 - 140
1,1-Dichloroethylene	99%	97%	2.1%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

S. 1711

Sample Custody Record

DATE 6/29/04 PAGE 1 OF 1

HARTCROWSER

Hart Crowser, Inc.
One World Trade Center, Suite 2300
Long Beach, California 90831-2300

JOB NUMBER 16171-00 LAB NUMBER Jones Env.

PROJECT MANAGER Barry Kellems

PROJECT NAME PACCAR - Additional Assessment

SAMPLED BY: James Brady

LAB NO.	SAMPLE	TIME	STATION	MATRIX	TPH-Cc 8015M	VOCs 8260B/5035									NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
ST-1411-1	ROB-01	1035		Soil	X	X									1	
ST-1411-2	ROB-02	1045		Soil	X	X									1	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	6/29/04	SIGNATURE	6/29/04
PRINTED NAME James Brady	TIME	PRINTED NAME Stephen Adu-Gyamfi	TIME
COMPANY Hart Crowser	12:10	COMPANY Hart Crowser	1210

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	6/29/04	SIGNATURE	6/29/04
PRINTED NAME STEPHEN ADU-GYAMFI	TIME	PRINTED NAME Jace Jones	TIME
COMPANY Hart Crowser		COMPANY JEL	1620

TOTAL NUMBER OF CONTAINERS 2

METHOD OF SHIPMENT DROP OFF

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS 1 WEEK TURN AROUND TIME

Results & Invoice should be sent to Barry Kellems in the Seattle office: 1910 Fairview Ave East. Seattle, WA 98102 Phone #(206) 324-9530 Fax # (206) 328-5581

DISTRIBUTION:

1. PROVIDE WHITE AND YELLOW COPIES TO LABORATORY
2. RETURN PINK COPY TO PROJECT MANAGER
3. LABORATORY TO FILL IN SAMPLE NUMBER AND SIGN FOR RECEIPT
4. LABORATORY TO RETURN WHITE COPY TO HART CROWSER

PACCAR 03859

APPENDIX F
WASTE DISPOSAL MANIFEST FOR SOIL CUTTINGS

NO. 57177

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

EPA I.D NO:

NAME: PACCAR

PROFILE NO: AV060504

ADDRESS: 19706 S. Normandie Ave.

CITY, STATE, ZIP: Torrance, CA 90502

PHONE NO. ( )

CONTAINERS: No. ____ VOLUME: 25 YD. WEIGHT ____

TYPE: ☐ TANK TRUCK ☒ DUMP TRUCK ☐ DRUMS ☒ CARTONS ☐ OTHER R/L

WASTE DESCRIPTION: SOIL

GENERATING PROCESS: EXCAVATION

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. NON-HAZ			5.		
2. A. Ro Trucking / M.B. Trucking					
3.			7.		
4.			8.		

PROPERTIES: pH ____ ☒ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☒ OTHER soil

HANDLING INSTRUCTIONS:

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

K. [illegible] as representative for PACCAR 7-9-04

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

EPA I.D NO:

NAME: MB ~~EAMORA~~ TRUCKING

ADDRESS: 1141 NORMAN

SERVICE ORDER NO.

CITY, STATE, ZIP: MONTEBELLO

PICK UP DATE

PHONE NO. 909 545 9646

TRUCK, UNIT, I.D. NO. 10/001

[illegible] 7.9.04

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TSD FACILITY

EPA I.D NO:

NAME: Antelope Valley

DISPOSAL METHOD

ADDRESS: ☒ LANDFILL ☐ OTHER

CITY, STATE, ZIP: Palmdale CA

PHONE NO.

Ismael Castanaza 07/12/04

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

GEN	DLD/NEW	L A	TONS
TRANS		S B	
C/Q		RT/CD	HWDF NONE

DISCREPANCY

(DRIVER: PLEASE SIGN BELOW)

6426832

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
304218
07/12/2004

(PLEASE SIGN HERE)

LOCATION: County
LACITY LA

S. POL
CA 100%

GROSS: 37.660
TARE: 20.200 (File)

	Oper	Time	Date
In:	RLW	03:38 PM	07/12/2004
Out:	RLW	03:38 PM	07/12/2004

NET: 17.460

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS

CUSTOMER NO.	TRUCK NO.	
0000201	UP10257	IND

PROFILE NO.
AV060504

MANIFEST NO.
57177

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
470	TPH Cover Soil	20.00	
	TOTAL	GATE FEE:	

OFFICE

PACCAR 03862

CWM Chemical Services, LLC
A WASTE MANAGEMENT COMPANY
Kettleman Hills Facility
P.O. Box 471
Kettleman City, CA 93239-0471
(559) 386-9711 Phone • (559) 386-6186 FAX

INVOICE

THIS AN INVOICE FOR CURRENT CHARGES.
PLEASE PAY AMOUNT INDICATED BELOW.

TERMS
DUE UPON RECEIPT
OR PER CONTRACT TERMS

ALL PAST DUE AMOUNTS WILL BEAR INTEREST AT ONE AND ONE HALF PERCENT PER MONTH OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS.

HART CROWSER INC
ATTN: ACCOUNTS PAYABLE
1910 FAIRVIEW AVE E
SEATTLE WA 98102-3620

Invoice Date: 07/20/2004
Customer #: 680-1449707
Invoice #: 2246-0579406
Page #: 1

anifest#	Profile Description	Gener/Quantity		P.O.#/Unit	Biller	Rate	Total
704AV0605				AV060504	JSCISSON	Svc Date	07/12/2004
	OFFSITE DISPOSAL	DISPOSAL AT PALMDALE	17.46	TON		37.00000	646.02
	PROFILE# AV060504						
	PACCAR						
						Subtotal	646.02

MIT TO
DDRESS

CHEMICAL WASTE MANAGEMENT, INC.
P.O. BOX 840606
DALLAS, TX 75284-0606

PLEASE PAY
THIS AMOUNT

$646.02

INVOICE COPY

WM 105 CWM

PACCAR 03863

www.hartcrowser.com

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Anchorage, Alaska 99503-2737
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Tel 907.276.7475

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Lakewood, Colorado 80228-1835
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Tel 303.986.6950

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Edmonds, Washington 98020-8411
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Long Beach, California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

Philadelphia
811 Church Rd, Suite 236
Cherry Hill, New Jersey 08002-1465
Fax 856.773.4106
Tel 856.773.4101

Portland
6146 Centerpointe Drive, Suite 240
Lake Oswego, Oregon 97035-8652
Fax 503.620.6918
Tel 503.620.7284

Seattle
1910 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206.328.5581
Tel 206.324.9530

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Work Plan for Supplemental Site Investigation

Former Trico Facility
1206 West 196th Street
Torrance, California

Prepared for:
PACCAR Inc.
777 106th Avenue N.E.
Bellevue, WA 98004

Prepared by:
Hart Crowser, Inc.
301 East Ocean Blvd.,
Suite 1950
Long Beach, California

March 31, 2004

Project No. 16171.00

HARTCROWSER
Delivering smarter solutions

PACCAR 03865

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Anchorage
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Jersey City
Long Beach
Portland
Seattle

Work Plan for Supplemental Site Investigation Former Trico Facility 1206 West 196th Street Torrance, California

Prepared for
PACCAR Inc.
777 106th Avenue N.E.
Bellevue, Washington 98004

March 31, 2004

16171.00

Prepared by
Hart Crowser, Inc.

Ronald Halpern, R.E.A, R.G
Associate Geologist

Alistaire Callender, PhD, REA
Principal

REGISTERED GEOLOGIST
RONALD M. HALPERN
NO. 6645
STATE OF CALIFORNIA

301 East Ocean Boulevard, Suite 1950
Long Beach, California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

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Letter of Transmittal

To: Fred Benz

PACCAR, Inc
777 106th Avenue N.E.
Bellevue, WA 98004

Date: April 5, 2004

Job No.: *16171*

We are sending the following items: UPS Next Day Air

Date	*Copies*	*Description*
April 5, 2004	2	Work Plan for Supplemental Site Investigation

These are transmitted:

☐ *For your information* ☐ *For action specified below* ☐ *For review and comment* ☐ *For your use* ☒ *As requested*

Remarks
Thank you.

By: Naomi Klinger

Title: Office Administrator

1.0 INTRODUCTION 1

2.0 SITE BACKGROUND 1

Potential Contaminant Sources 2

Potential On-Site Sources - Figure 2, Appendix A 3

Potential Off-Site Sources - Figure 3, Appendix A 4

3.0 SCOPE OF WORK 5

Quality Control Review of Analytical Data 7

Disposal of Investigative-Derived Waste 7

4.0 SCHEDULE 8

5.0 LIMITATIONS AND SIGNATURES 8

6.0 REFERENCES 8

FIGURES

Figure 1 - Site Location Map
Figure 2 - Proposed Soil Sampling Locations

APPENDICES

Appendix A - Historical Data
Appendix B - Sampling Plan
Appendix C - En Core Procedures / Forms / RWQCB Letter

PACCAR 03868

1.0 INTRODUCTION

The purpose of this Work plan is to identify how and why additional work proposed for the former Trico Site in Torrance California (Site) will be performed. On behalf of PACCAR, Hart Crowser completed the Supplemental Site Investigation during 2003 per a request from the California Regional Water Quality Control Board - Los Angeles Region (RWQCB).

This Work Plan was developed based on previous work done at the former Site and the discussions between PACCAR, Hart Crowser and the RWQCB at a January 13, 2004 meeting. The purpose of this Work Plan is to develop additional data on soil and groundwater conditions at the site, with the goal of obtaining RWQCB closure for the soil. Specifically the work will include:

- Assessment of the extent of chlorinated hydrocarbons in the Site soil at certain locations as described under Section 3.0, Task 3;
- Development of data to support a request for Site soil closure.

2.0 SITE BACKGROUND

The subject property is located in an industrial area in an unincorporated section of the County of Los Angeles, California (see Site Vicinity Map, Figure 1). Land use within one mile of the subject property is industrial, commercial, and residential. The subject property is approximately 100,000 square feet (sf) in size. It is developed with three buildings (Building A, B, and C) and is paved with asphalt concrete or concrete slab-on-grade with no exposed soil. The three buildings are single story and of different heights. The buildings are described as follows:

Building	Size	Construction	Former Use
A	20,000 sf	Concrete Block	Pump manufacturing
B	14,000 sf	Concrete Block with Metal Siding	Warehouse/Shipping
C	4,000 sf	Concrete Block	Warehouse

The subject property address is 1206 West 196th Street. The property is an "L"-shaped extension of the property located at 19706 South Normandie Avenue. The property at 19706 S. Normandie Avenue is currently owned and occupied by Mighty Enterprises, Incorporated, a finished products import company. Mighty Enterprises is currently using Buildings B and C for storage of imported

patio furniture products. Both properties (1206 W. 196th Street and 19706 S. Normandie Avenue) were formerly occupied by TRICO. TRICO sold the western section of the property (19706 S. Normandie Avenue) to Mighty Enterprises in 1989.

Land use in the vicinity of the subject property is composed primarily of industrial facilities. American Polystyrene Company (formerly Amoco Chemical Company) is located to the north; Mighty Enterprises (an importer) and a lumber yard are located to the west; Redman Manufacturing (a heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track is in place between the subject property and the R.R. Donnelly facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 200 feet and 600 feet northwest of the property, respectively. The Site is located adjacent to the western boundary of the "Del Amo Superfund site" and approximately 1,500 feet northeast of the "Montrose Chemical Superfund site".

A Record of Decision (ROD) was issued in March of 1999 for both the Montrose Chemical Superfund Site and the Del Amo Superfund site in Los Angeles County, California. Releases of hazardous substances, pollutants or contaminants from the former DDT pesticide manufacturing plant operated by Montrose Chemical Corporation, including but not limited to chlorobenzene, DDT, and parachlorobenzene sulphonic acid, have resulted in hazardous substances contamination in the groundwater. Release of hazardous substances from the former Del Amo Synthetic Rubber Manufacturing plant, including but not limited to benzene, ethylbenzene, and naphthalene have resulted in hazardous substances contamination in the groundwater. Releases of hazardous substances including but not limited to benzene, trichloroethylene (TCE), perchloroethylene (PCE), and dichloroethylene (DCE) have occurred potentially as a result of the operations at both the former Montrose Chemical and Del Amo plant properties and otherwise as a result of the operations of additional facilities in the immediately surrounding area. These releases have also resulted in groundwater contamination. EPA has given the name "joint site" to the groundwater contamination from the Del Amo and Montrose sites and from a few smaller nearby facilities which will be affected by the cleanup. According to the record, two facilities at the Del Amo western border handle solvents and have soils with high levels of these solvents. These two facilities are identified as the former AMOCO and Lawson Chemical, and the "Former Trenches" of the Del Amo site. It is believed that the former trenches were used for waste disposal activities.

Potential Contaminant Sources

As a result of previous work at the site by Hart Crowser and others (see Prior Site Investigations section), a number of potential on-site and off-site sources have been identified and partially characterized at the former TRICO facility.

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Potential On-Site Sources -- Figure 2, Appendix A

ASTs (Central). It was reported that former site occupants utilized three aboveground storage tanks in the central portion of the subject property to store solvents.

1995 Borings/Well(s) MW-4
December 2002 Borings: BL-05, BL-06, BL-07

ASTs (Northwest). Former site occupants appear to have utilized aboveground storage tanks in the northwestern portion of the property. The former contents of these tanks are unknown.

1995 Borings/Well(s) MW-3
December 2002 Borings: BL-01, BL-02, BL-03, BL-04

ASTs. Two ASTs south of Building B were reportedly used to store TCE.

December 2002 Borings: BL-12, BL-13. (Grab water sample from BL-12)

Vehicle Maintenance Area. TRICO reportedly conducted vehicle maintenance activities north of Building C.

December 2002 Borings: BL-16

Paint Dip Tank. TRICO reportedly utilized a paint dip tank to coat finished parts. A drip area was located along the center portion of the north wall of Building A to contain dripping paint from painted parts.

December 2002 Borings: BL-09, BL-10, BL-11 (Grab water samples from BL-09 and BL-11)

Cesspool. B & W and TRICO reportedly utilized a cesspool on the east side of Building A to dispose of wastewater. SCS conducted soil sampling around the cesspool and installed a groundwater monitoring well in the cesspool area. Soil and groundwater samples contained concentrations of chlorinated VOCs.

August 2000 Borings/Well(s): MW-7
December 2002 Borings: BL-15

Clarifier (Central). SCS Engineers did not assess the clarifier located in the center of the site near the vehicle and parts washing area in 1987. Boring BH-4 was installed in the general vicinity to assess the former steam cleaning area. However, the clarifier itself was not

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specifically assessed. Soil samples from boring BH-4 contained concentrations of chlorinated VOCs.

December 2002 Borings: BL-07, BL-08 (Grab water sample from BL-07)

Clarifier (Southeast). The southeast clarifier was reportedly used to process a machine outflow stream prior to discharge to the storm drain.

To be addressed by April 2004 Borings: BL-25

Chemical Storage Area. TRICO reportedly stored chemicals (including toluene) in the southeast corner of the property.

August 2000 Boring/Well: MW-7
December 2002 Borings: BL-15
To be addressed by April 2004 Borings: BL-25

Potential Off-Site Sources -- Figure 3, Appendix A

Lumber Storage and Treatment. A lumber storage and treatment operation exists on the west side of the subject property. The facility has been in operation since 1972 or earlier. If lumber was treated on (or very near to) the subject property in the past, it is possible that related treatment chemicals may have impacted soil beneath the subject property.

Shell Synthetic Rubber Plant. From the early 1940s until the late 1960s, the Shell Synthetic Rubber Plant was located on the east-side adjacent property. A portion of this property is now on the NPL and CERCLIS list (the Del Amo Superfund site). The portion of the Shell property that has been designated a Superfund site is located approximately 2,500 feet southeast of the subject property. The Shell plant utilized numerous ASTs, some within 50 feet of the subject property. Although no detectable concentrations of target compounds were reported in groundwater samples collected from the three Superfund groundwater monitoring wells located on the eastern side of the subject property, chlorinated VOC concentrations were detected in wells MW-1 and MW-2.

December 2002 Borings: BL-14, BL-16, BL-19, BL-20

Boeing Aircraft (Formerly McDonnell Douglas). A McDonnell Douglas facility was formerly located 600 feet west and northwest and upgradient of the subject property across Normandie Ave. Solvent-impacted soil and groundwater has been identified at the Douglas facility. This reported groundwater plume might pose a threat to the subject property since it is up gradient.

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Other Neighboring Industrial Facilities. American Polystyrene (formerly Amoco Chemical Company) located north of the site maintained chemical-containing ASTs. DPW documents from the 1960s indicated solvents were used by Amoco. Additionally, Amoco used a cesspool for disposal of wastewater and maintained sumps. A paint manufacturer located 500 feet northwest of the subject property formerly maintained solvent-containing USTs. Some of these USTs were abandoned in place. These two sites have apparently impacted the subject property.

April 2004 Borings: BL-26, BL-27

Agricultural Land Use. Historical data indicated the subject property and neighboring properties were used for agriculture from the 1920s to the 1950s. The subject property may have been impacted by previous pesticide application during the agricultural use. The pesticide, fungicide, and herbicide residues from farming on the subject property have had at least 40 years to break down, be washed away, or diluted. It is likely that potential residues from the pesticides, fungicides, and herbicides (if present) are in very low concentrations due to age deterioration and dilution.

3.0 SCOPE OF WORK

The proposed scope of work for the Work Plan consists of the following tasks:

- Task 1 - Health and Safety Plan Modification;
- Task 2 - Underground Utility Search, Permitting and Notifications;
- Task 3 - Soil Sampling and Laboratory Analyses;
- Task 4 - Site Investigation Report

These tasks are described in more detail in the following sections:

Task 1 - Health and Safety Plan Modification

The existing Site Health and Safety Plan will be modified as needed for this field program. Hart Crowser personnel will conduct daily tailgate health and safety meetings. Hart Crowser site supervisor will notify PACCAR, subcontractors and the present site supervisor regarding safety issues, as needed.

Task 2 - Underground Utility Search, Permitting and Notifications

Hart Crowser will subcontract a private locating service to identify on-site underground lines and utilities. Hart Crowser will also contact Underground Service Alert for the demarcation of underground utilities outside the property boundary at least 72 hours ahead of the proposed work. Hart Crowser has determined that there are no permits required for the advance and sampling of hollow-stem auger borings from the local agency (Los Angeles County Department of Public Health – Mountain and Rural Division). PACCAR, the present site supervisor, and regulatory agencies will be notified as required prior to initiating the boring program at the Site.

Task 3 - Soil Sampling and Laboratory Analyses

On April 7th and 8th 2004, Hart Crowser will advance 7 soil borings to 55 feet below ground surface (bgs) at the Site. The locations of the soil borings are shown in Figure 2. A description of the work Hart Crowser will complete follows:

- Advance four soil borings (BL-21, BL-22, BL-23, and BL-24) to 55 feet below ground surface (bgs) inside Building A to address data gaps in this area;

- Advance one soil boring (BL-25) to 55 feet bgs adjacent to the former clarifier in the southeast corner of the Property to address data gaps in this area*; and

- Advance two soil borings (BL-26 and BL-27) along the north portion of the property (not previously assessed) to 55 feet bgs.

Advancement of the soil borings will be accomplished using a limited access rig (LAR). An estimated 385 feet of borings will be advanced, with up to 50 soil samples collected for chemical analysis. Soil samples will be collected at five-foot intervals using a California-modified split-spoon sampler, lined with three 2-inch diameter by 6-inch long brass rings.

Samples collected at 5 feet bgs and at 10-foot intervals thereafter, will be collected for chemical analysis. Upon retrieval of the sampler, sub-samples will be collected using either Encore Samplers (or Quick Syringe) in accordance with EPA Method 5035 and with LARWQCB requirements. The remaining soil will be used for monitoring VOC content in the headspace above the soil using a photo-ionization detector (PID), and for descriptive purposes. A description of the material observed during advancement of the borings will be recorded on field boring logs in accordance with the Unified Soil Classification System (USCS) and standard practice.

Upon collection, soil samples for chemical analysis will be labeled, recorded on a chain-of-custody document, and placed in cold storage pending delivery to a state-certified laboratory for chemical analysis.

Soil samples will be analyzed for VOCs using EPA Method 8260B.

Upon completion of sampling activities, the borings will be backfilled with bentonite chips, hydrated in place, to one foot bgs and resurfaced with materials similar to current ground surface covering in each boring location.

*Note: **Southeast Corner (boring BL-25)** - A preliminary assessment report prepared by Roy F. Weston for the USEPA in 1993, drew the conclusion that *"...The most significant source of contamination identified on site is the former cesspool located on the southeast corner of the property."* The Weston report went on to state that; *"...SCS Engineers, TRICO's consultant, has estimated that soil contamination does not extend more that 50 feet in any direction around the former cesspool. Assuming contamination is present at 10 to 60 feet below surface in the vicinity of the cesspool, there would be approximately 16,000 cubic yards of potentially contaminated soil."*

During the Supplemental Site Investigation of 2003, boring BL-15 was drilled side-by-side with the former cesspool. The results showed that samples taken at 0.5', 5', 15', 25', 35', 50', and 55' did not find any contaminants of concern above USEPA's Region 9 PRG values. Monitoring well MW-7 sampled during the same investigation did show contaminants above the Maximum Contaminant Levels (MCL's), but those contaminant levels were far from the highest levels detected in the area of the Del Amo Montrose Joint Groundwater Operable Unit. Further, in August 2000 Hart Crowser performed cone penetrometer borings on site, and CPT-12, -13, and -14 in the area of the cesspool and clarifier also did not find any contaminants of concern above USEPA's Region 9 PRG values.

Quality Control Review of Analytical Data

Data received by the laboratory will be reviewed by Hart Crowser for consistency, appropriate holding times, and appropriate sample identification and analysis.

Disposal of Investigative-Derived Waste

Hart Crowser will coordinate the disposal of drummed soil stored on Site, generated during the additional assessment. A total of approximately 25 drums of soil and 4 drums rinseate water will be generated during the additional assessment. For the purposes of this estimate, it is assumed the water in the drums is non-hazardous. If the IDW water is determined to be hazardous, a change order will be requested for approval by PACCAR Inc. before any other action is taken.

Task 4 - Site Investigation Report

Upon completion of the investigation, receipt of field logs, and laboratory reports, a site assessment report will be prepared to document the procedures and results of the additional assessment. The report will include an update to the site conceptual model, a table summarizing analytical results to

show all chemical findings (including previous analytical results detected in site soil), a Site Location map showing soil boring locations, a Site Map showing previous and new sample locations, a revised figure showing the vertical distribution of PCE and TCE in soil in the borings sampled, soil iso-concentration contour maps of contaminants of concern, computer-generated boring logs, and a copy of the analytical laboratory data and quality control/quality assurance documentation and reports, and all necessary field documentation.

4.0 SCHEDULE

Hart Crowser will mark boring locations on April 1, 2004; A geophysical survey of the boring locations will be performed on April 6, 2004; Concrete coring will be performed April 7, 2004; Drilling and soil sampling will begin on April 7th, 2004 and be completed on April 8th, 2004. Laboratory analytical testing results of soil samples collected during the field program should be available within ten working days of submittal. Our report will be submitted to PACCAR by May 3, 2004.

5.0 LIMITATIONS AND SIGNATURES

The Work Plan has been prepared for the exclusive use of PACCAR for submittal to the RWQCB as it pertains to the property located at 1206 West 196th Street in Torrance, California. All work will be conducted under the direct supervision of a California Registered Geologist or Engineer and per RWQCB guidelines.

6.0 REFERENCES

United States Geological Survey, 1981. Topographic Map for the Torrance Quadrangle, 7.5-Minute Map.

SCS Engineers (SCS), 1987, Preliminary Draft Report for Additional Site Investigation at the Trico Industries Facility.

Dames and Moore, 1998, Final Groundwater Remedial Investigation Report, Del Amo Study Area, Volume I, May 15.

Hart Crowser, Inc., 1998a. Data Summary for Paccar, Inc., Torrance Facility. Project No. 6830. August 27.

Hart Crowser, Inc., 1998b. Draft Report of Groundwater Sampling, 1206 West 196th Street, Torrance, California. Project No. 6830. September 23.

Hart Crowser, Inc., 2000. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 6830. March.

Hart Crowser, Inc., 2000c. Draft Phase II Investigation Report. 1206 West 196th Street, Torrance, California. Project No. 6905. November.

USEPA, 1999. Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume I. March 1999.

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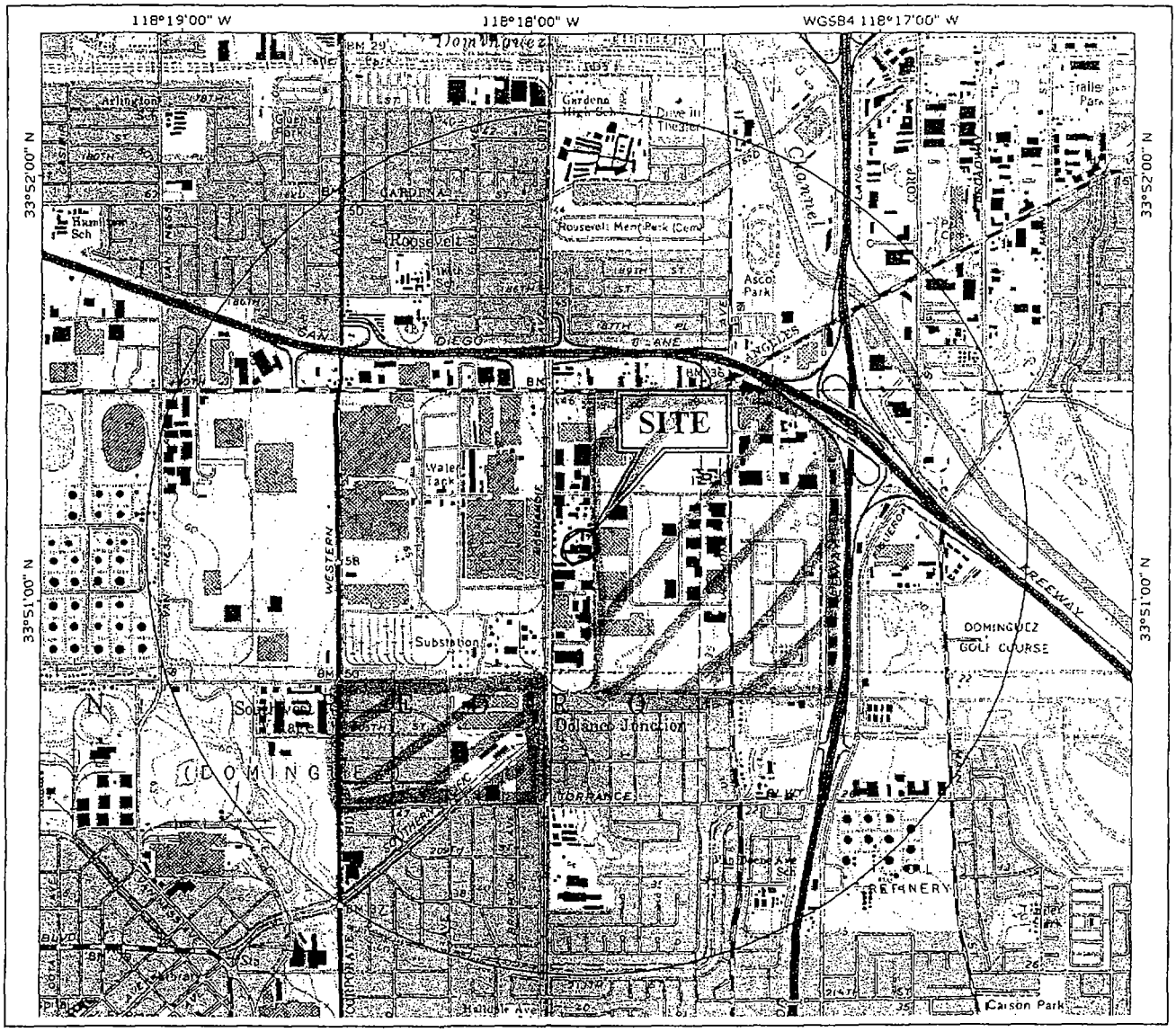
Figures

FIGURES



0 1 2 mi

0 2,000 4,000 6,000ft

Source: USGS, 1964
Torrance - California Quadrangle
7.5-minute (topographic) series
Photorevised 1981
Scale: 1" = 2,000 ft (1:24,000)
Site Location: Township 4S, Range 14W, Section 1G S.B B&M

N

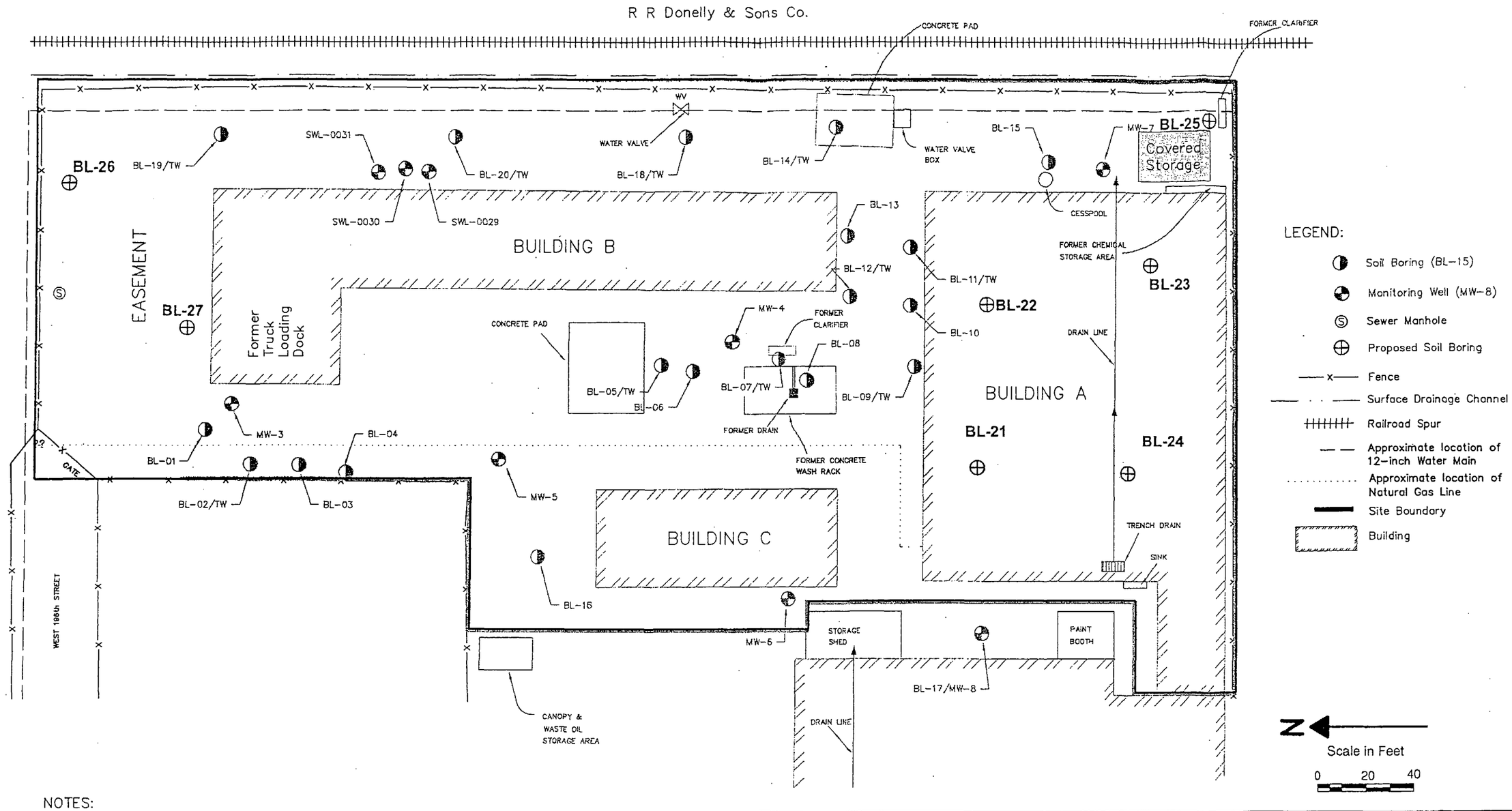
HARTCROWSER

PROJECT: Former Trico Facility
1206 W. 196th Street, Torrance, CA

FIGURE 1. SITE LOCATION MAP

Project No.:	Date:
1617100	March 29, 2003

F:\DATA\JOBS\16000s\16171 Paccar-Add'l Assessment\000-Project Base Files\Figures\161710-Fig 1



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

HARTCROWSER

PROPOSED SOIL BORING LOCATIONS

Former Trico Facility
1206 W 196th ST
Torrance, California

Date: March 31, 2004

File:F:Data/Jobs/16000/1617100/Figures/AutoCad/
Figure 2-Proposed soil boring locations April 04

FIGURE 2

Appendix A

APPENDIX A
HISTORICAL DATA

PHASE I ESA BACKGROUND DATA

HART CROWSER 1995

SITE GEOLOGY AND HYDROGEOLOGY

The site elevation is approximately 45 feet above mean sea level. The surface gradient is sloped to the east toward the Dominguez Channel (located approximately1 mile to the east) with an approximate slope of 20 feet per mile.

SCS indicates that the site is located in an area predominantly underlain by silt and sand (flood plain deposits) to a depth of 50 feet below ground surface (bgs). The Palos Verdes Sand exists from 50 to 100 feet bgs and is comprised of coarse-grained sand and gravel. An unnamed formation exists from 100 to 200 feet bgs and is comprised of fine-grained silt, clay, and sand in the upper half, and sand and gravel in the lower half. The San Pedro Formation is reported to exist below the 200-foot bgs level and is comprised of clay, silt, sand, and gravel and is approximately 500 feet thick.

SCS indicates that the depth to groundwater is approximately 60 to 65 feet bgs in this area. The general groundwater gradient in the vicinity of the subject property is reported to be to the southeast. Local site conditions may vary from regional conditions.

SITE HISTORICAL CONFIRMATION

Our site historical confirmation consisted of a review of the following:

- Aerial photographs at Whittier College, Department of Geography, 1927 through 1958 (not consecutive years) and Rupp Aerial Photography, 1938 through 1992 (not consecutive years)
- USGS Topographic Maps (Torrance, California, 1964, photo revised in 1981)
- Sanborn Fire Insurance Maps
- Building Permits, Los Angeles County Department of Public Works
- Interviews with Mr. Jim Dunavant and Mr. Leo Cahill

AERIAL PHOTOGRAPHS

We reviewed aerial photographs dated 1927 to 1992, and made the following observations:

- Photographs dated 1927 through 1947 show the subject property to be undeveloped. Land use in the vicinity includes farms located to the north and south of the subject property.

- A photograph dated 1941 shows the farm on the north side to have expanded to include portions of the subject property.

- A photograph dated 1946 shows the Shell Oil Company Synthetic Rubber Plant and McDonnell Douglas Aircraft Plant to be in place. The Shell plant is located adjacent to the subject property on the east side and the Douglas plant is located approximately 600 feet northwest of the subject property. This photograph shows the Shell plant with numerous ASTs, some within 50 feet of the subject property. A railroad line is visible in place around the perimeter of the Shell plant, adjacent to the subject property.

- A photograph dated 1951 shows Building C of the subject property in place. This photograph also shows miscellaneous debris on the southern portion of the subject property.

- A photograph dated 1954 shows the northern half of Building A in place. This photograph also shows a row of small aboveground tanks along the northwestern property line. This photograph does not reveal which side of the property line the tanks were located.

- A photograph dated 1957 shows the northern portion of Building B.

- A photograph dated 1963 shows a southern addition to Building A. A small square building is located in the center of the property and three ASTs are present to the south of the building.

- A photograph dated 1972 shows Building C connected to a building on the 19706 S. Normandie Avenue property (to the west). It is not clear whether this connection is simply an awning or an actual structural connection. This photograph also shows the lumber yard (currently adjacent to the subject property) in place. Additionally, the Shell plant has been demolished and the land is undeveloped.

- A photograph dated 1985 shows the southern extension of Building B to be in place. Building A runs continuously, extending onto the 19706 S. Normandie Avenue parcel (to the west). At this time, the two properties are still a single parcel. The land on the east side of the subject property (where the Shell plant formerly existed) has been developed into a business park.

- A photograph dated 1992 shows the division of the property into two separate parcels [Mr. Larry Sims (PACCAR) stated this division occurred around 1989]. Building A has been divided along the western property line into two separate buildings. Further, the portion of Building C on the west side of the western property line has been removed. The small square building in the center of the property appears in the photograph, but our site reconnaissance indicates that this is probably just the slab foundation left in place after the building was demolished.

USGS MAP REVIEW

We reviewed the USGS topographic map for the area of the subject property. Buildings A, B and C are shown on the 1964 map. No other relevant information is available from the USGS map.

SANBORN FIRE INSURANCE MAPS

We researched the availability of Sanborn Fire Insurance Maps for the subject property. Sanborn Fire Insurance Maps were produced from around 1890 through the 1960s for the purpose of fire insurance in many highly developed or industrial areas. However, the vicinity of the subject property was not mapped and, therefore, no maps are available for this area.

BUILDING PERMITS

We reviewed building permits for the subject property at the County of Los Angeles Department of Public Works (DPW) Annex in Lomita, California to check for the existence of permits which would indicate installation of waste water clarifiers, septic systems, underground storage tanks (USTs), and other items of potential environmental concern. Based on our building permit review, it appears that the site was originally developed in the 1940s. Through the 1950s and 1960s, the site occupants remodeled the subject buildings as well as constructed additional buildings on the property. The original land use appears to have been storage of construction related equipment (Kuchner Construction Company), followed by the manufacture of paints and storage of solvents (American Chemsolv, Inc.), and finally the manufacture of oil well completion equipment (B & W Monarch followed by TRICO). Substances used and stored on the property have included oil, hydraulic fluids, solvents, and paints.

The earliest permits contained in the file for 1206 W. 196th Street are dated 1957. These permits were obtained for the construction of a cesspool. Building permits indicate that the subject property was occupied by American Chemsolv, Inc. (a paint manufacturing and solvent storage facility) in 1957. By 1974, B & W Monarch (TRICO's predecessor) occupied the property.

We did not locate installation or abandonment permits for either the concrete-filled, three-stage vehicle and parts washing clarifier currently in place in the center of the subject site or for the waste water clarifier reportedly located in the southeast corner of the subject property shown on DPW documents. We reviewed a permit dated1958 for the installation of two 5,000-gallon aboveground storage tanks, and a permit dated 1960 for the "electrical wiring of pumps associated with copper column tanks." Both permits (1958 and 1960) were issued to American Chemsolv. No other permits were contained within the file for 1206 W. 196th Street.

Prior to the subject property (1206 W. 196th Street) being separated from the property at 19706 S. Normandie Avenue, the two parcels were one contiguous parcel with the Normandie Avenue address. During our building permit review at the DPW, we reviewed the permit file for the Normandie Avenue address. Permits in the file indicate the property at 19706 S. Normandie Avenue (not the subject property) was first occupied in 1947 by the Kuchner Construction Company. Two buildings and a cesspool were constructed at the Normandie property in 1947. Building permits for the Normandie property indicate a 550-gallon gasoline underground storage tank was installed in 1950, approximately 200 feet from the west end of Building A (on the Normandie property). Permits through the 1950s and

1960s list additions and alterations to the existing buildings, installation of a transformer and a heating, ventilation and air conditioning system.

INTERVIEWS

We interviewed Mr. Dunavant (TRICO) before and during our site reconnaissance. He stated that TRICO purchased B & W, Inc. in 1981, and TRICO was purchased by PACCAR, Inc. in 1987. In 1989, the western portion of the TRICO property with the 19706 S. Normandie Avenue address was sold to Mighty Enterprises.
Mr. Dunavant indicated that he never worked at the Torrance TRICO facility. He identified Mr. Leo Cahill as the former TRICO Torrance facility manager. We also spoke with Mr. Larry Sims (PACCAR) who indicated TRICO maintained two, 200 to 500 gallon solvent-containing ASTs on the southwest corner of Building B. We did not observe either of these ASTs during our site reconnaissance.

We contacted Mr. Cahill to interview him about previous site activities. Mr. Cahill indicated that he began working at the Torrance facility when it was owned by
B & W Incorporated in 1963 and worked at the facility until October 1993, when it was closed. Mr. Cahill stated he did not know about the ASTs that were on the property when American Chemsolv occupied the property. He indicated that there were two clarifiers on the property, both are reported to have been abandoned. The clarifier on the central portion of the property was used to process vehicle wash water and steam cleaning water from die and parts washing. The clarifier on the southeast corner of the property was connected from a machine outflow stream to the storm drain.

REGULATORY AGENCY FILE AND LIST REVIEW

We contracted with Environmental Risk Information and Imaging Services (ERIIS) to perform a search of Federal and State regulatory agency database listings. We reviewed the regulatory agency database lists presented by ERIIS (see Appendix A) to obtain information of potential concern regarding the subject property and off-site properties within a one-mile radius of the subject property.

In addition, we visited the Regional Water Quality Control Board (RWQCB), the Los Angeles County Department of Public Works (DPW), the California Department of Toxic Substances Control (DTSC), and the California Department of Conservation, Division of Oil and Gas (DOG) to review regulatory file information on the subject and neighboring properties. Our findings are provided below.

SUBJECT PROPERTY

Agency Lists. The subject property address appears on the RCRIS-SG, HWIS, CERCLIS, TRI, FINDS, and CORTESE lists (see Appendix A for explanation of acronyms).

The RCRIS-SG database is a listing of facilities that generate between 100 kilograms and 1,000 kilograms of hazardous waste per month. The HWIS database is a listing of facilities

that are required to report their hazardous waste activities to the California Environmental Protection Agency (Cal EPA). These listings do not necessarily indicate a problem; rather, these listings indicate that the associated facilities have generated hazardous wastes that are regulated on a federal and state level.

The CERCLIS database is a listing of sites which may require cleanup or are being reviewed by the United States Environmental Protection Agency (USEPA) for potential listing on the National Priorities List (NPL). Based on an evaluation conducted by Weston under contract to the USEPA, the TRICO facility has not been listed on the NPL (see section 7.4).

The TRI database is a listing of facilities which have reported a release or transfer of toxic chemicals. The FINDS database is a listing of facilities being tracked by the USEPA. The CORTESE database is a listing of facilities which have reported underground storage tank (UST) releases, impacted groundwater supply wells, or may have operated sanitary landfills. The subject property is listed on the aforementioned databases. Because the subject property appears on these databases, there is some concern about potential impact to the environment from on-site activities.

RWQCB Files. The RWQCB file information indicates the cesspool installed in the 1960s was abandoned in 1974, but not filled in with concrete until 1987. The RWQCB file also contains a report by SCS Engineers that provides the results of soil and groundwater sampling and analysis conducted at the subject property by SCS in 1987. In summary, the SCS report indicates that concentrations of volatile organic compounds (VOCs), including chlorinated compounds, are present in the soil and groundwater beneath the subject property (see Section 7.1 for a discussion of the SCS Report).

We spoke with Mr. Keith Elliot (Water Resource Control Engineer with the RWQCB) about the TRICO file. He stated that the RWQCB does not have oversight jurisdiction of the TRICO facility at this time.

Mr. Elliot indicated that the RWQCB is systematically reviewing all cases of solvent-impacted soil and groundwater within the Los Angeles region. The RWQCB may request a remedial action plan to address impacted soil and groundwater at selected facilities based on the concentrations of solvents present.

DPW Files. The DPW files contain information pertaining to the concrete-filled vehicle and parts washing clarifier located at the subject property. Additionally, the files contain blueprints showing another clarifier in the southeast corner of the property (the clarifier Mr. Cahill referred to). The files did not contain information relating to environmental issues concerning the subject property.

DTSC Files. Based on information reviewed at the DTSC, it appears that in July 1992, the TRICO facility was identified as potential hazardous waste site and listed on the CERCLIS database. In October 1992, Roy F. Weston, Inc., under a USEPA contract, conducted a Hazard Ranking System (HRS) assessment at the subject property as part of the USEPA's

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The results of the HRS assessment did not recommend placing the TRICO facility on the NPL.

NEIGHBORING PROPERTIES

Agency Lists. We reviewed the regulatory agency database listings for neighboring properties in the vicinity of the subject property. Properties within one-quarter mile of the subject property appear on the CERCLIS, LUST, and CORTESE lists (see Appendix A for explanation of acronyms). Other facilities within one-mile of the subject property appear on other agency lists including the Del Amo and Montrose Superfund sites.

The Del Amo Superfund site is located in the southeast corner of the former Shell plant. This Superfund site is located approximately 2,500 feet southeast and down gradient, with respect to ground water flow, from the subject property. The Montrose Superfund site is located approximately 2,000 feet southwest and down gradient, with respect to ground water flow, from the subject property. Because of their distance from the subject property, these two sites do not appear to pose a threat of potential impact to the subject property.

Aside from the Del Amo and Montrose Superfund sites, the CERCLIS sites within one-quarter mile have been inspected and have received No Further Action (NFA) status from the USEPA, indicating the USEPA has decided the sites do not warrant cleanup under CERCLA.

RWQCB Files. We reviewed the file for McDonnell Douglas Aircraft Company at the RWQCB. The McDonnell Douglas facility is located about 600 feet west and northwest of the subject property. The file contained soil and groundwater analysis information. A consultant to McDonnell Douglas identified soil impacted with solvents on-site. The McDonnell Douglas consultant also reported solvent-impacted groundwater was coming onto the McDonnell Douglas property from the northwest.

We spoke with Mr. David Hung with the RWQCB about solvent-impacted soil and groundwater in the Torrance area. He stated that he does not know of a solvent plume in the vicinity of the subject property.

DPW Files. Files we reviewed at the DPW did not indicate potential issues of solvent-impacted soil or groundwater originating from neighboring or adjacent properties.

DTSC. The DTSC files we reviewed contained information on the Amoco Chemical Company facility located adjacent to the northern property line, a paint manufacturing facility located north of the subject property, and a pesticide manufacturing facility located southwest of the subject property.

The files indicate Amoco Chemical Company used solvents, stored drums, and maintained ASTs and sumps at their facility. A cesspool was reportedly abandoned in 1969. No information about soil sampling in the vicinity of the cesspool was contained in the file. The paint manufacturing facility formerly maintained

14 underground storage tanks (USTs) containing solvents, pigment, and paint thinner. The DTSC file contained a violation issued to the facility for discharging paint waste to the ground. Eleven of the 14 tanks at this facility were abandoned in place, presenting a potential source of solvent-impacted soil and/or groundwater if the tanks were leaking prior to being abandoned in place. The pesticide manufacturing company operated from 1947 to 1951. Because of the proximity of this facility, a slight potential for soils impacted by airborne pesticides exists.

DOG. We requested oil well information at the DOG. No wells are on record in the vicinity of the subject property.

SITE RECONNAISSANCE

On January 30, 1995, Mr. David Darrow (Hart Crowser) met Mr. Jim Dunavant (TRICO) at the subject property and conducted a site reconnaissance to observe the site and the adjacent properties. Mr. Darrow discussed the past operations at the subject property with Mr. Dunavant. The site reconnaissance included a visual inspection of the three buildings and a visual observation of the surrounding properties.

We observed a clarifier to be abandoned in place in the center of the subject property. TRICO and B & W reportedly operated a three-stage clarifier located in the center of the site from the 1950s to the 1980s. The clarifier was formerly used to collect water from vehicle, parts, and die washing prior to disposal to a storm drain system.

A chemical storage area was formerly located on the east side of Building A. We visually inspected the area and observed moderate staining. The area was observed to be paved with concrete.

Two of the three subject property buildings are currently used for storage of imported patio furniture products. The importer (Mighty Enterprises) occupies the property at 19706 S. Normandie Avenue. We observed Buildings B and C to be partially full of the imported goods (see Photographs 7 and 8, Appendix B).

We observed a lumber storage yard to the west of the subject property. This lumber yard was observed in aerial photographs from 1972 through 1992. American Polystyrene Corporation is located to the north of the property. We observed ASTs at this property.

LEAD-BASED PAINT

We performed a qualitative field screening of selected deteriorated painted surfaces on the buildings at the subject property using LeadCheck™ to screen for the presence of lead-based paint. We performed ten tests on paint from the interior and exterior of the three buildings.

The paint tested positive for lead on three samples from the exterior of Building B. The remaining seven samples from Buildings A, B, and C tested negative for lead content. No paint was observed on the exterior of Building A or on the south end of Building B. These

tests are intended only as a screen, and the presence (or absence) of lead cannot be verified without laboratory chemical analysis of samples.

POLYCHLORINATED BIPHENYLS (PCB)

We identified six pole-mounted transformers, one transformer mounted to the side of Building B, and numerous fluorescent light fixtures at the subject property.

We contacted Southern California Edison (SCE) representative, Mr. Barry Guimont, to obtain information on the pole-mounted transformers we identified at the subject property. Mr. Guimont could not provide specific information on the transformers at the subject property. He provided a form letter which stated "In a statistically valid test of over 2,000 SCE distribution transformers, we determined that the concentration of PCB in the mineral oil is less than 50 parts per million (ppm) in over 96 percent of the units. The mineral oil in the 4 percent of the units that tested above 50 ppm is generally below 100 ppm." The letter indicated that SCE would conduct testing on transformer fluid upon request. If the transformer fluid contains less than 50 ppm PCBs, the cost of testing ($500) will be passed on to the party requesting the test. In the event that the fluid contains greater than 50 ppm PCBs, SCE will cover the cost of the test.

The transformer mounted to Building B appears to be an air-cooled transformer and should not contain dielectric fluids.

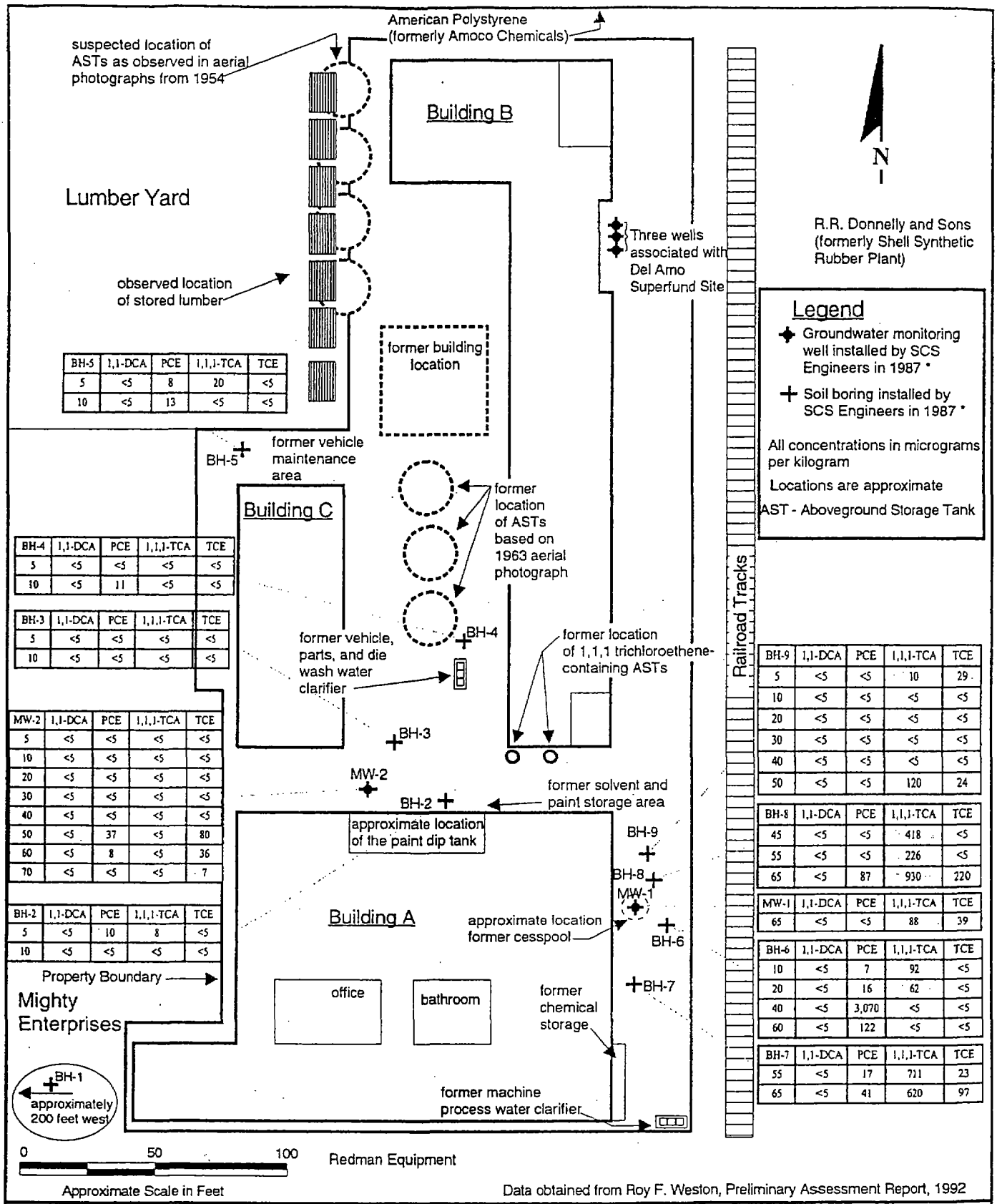
The transformers at the subject property were observed to be in good condition. No staining, discoloration, or corrosion was observed on the transformers.

Based on the age of the subject buildings, it is likely that some of the fluorescent light fixtures in the three subject buildings have PCB-containing ballasts. We did not observe leaking ballasts during our reconnaissance.

ASBESTOS SCREENING

We obtained bulk samples of selected building materials from various locations throughout the three buildings. The bulk building material samples were analyzed for asbestos content by Polar Light Microscopy.

We did not identify floor tiles, ceiling tiles, or sheetrock in Building C and, therefore, we did not obtain samples of building materials from Building C. The results of our asbestos screening indicate that samples of floor tiles obtained from Buildings A and B contained asbestos. The results from our limited asbestos bulk sample testing do not constitute a California Occupational Safety and Health Administration (CAL OSHA) approved asbestos survey. Our limited asbestos testing intended only to screen for the presence of exposed asbestos-containing materials. In order to confirm the presence or absence of asbestos in all building materials, a comprehensive asbestos survey would need to be completed at the three buildings.



BH-5	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	8	20	<5
10	<5	13	<5	<5

BH-4	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	11	<5	<5

BH-3	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	<5	<5	<5

MW-2	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	<5	<5	<5
20	<5	<5	<5	<5
30	<5	<5	<5	<5
40	<5	<5	<5	<5
50	<5	37	<5	80
60	<5	8	<5	36
70	<5	<5	<5	7

BH-2	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	10	8	<5
10	<5	<5	<5	<5

BH-9	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	10	29
10	<5	<5	<5	<5
20	<5	<5	<5	<5
30	<5	<5	<5	<5
40	<5	<5	<5	<5
50	<5	<5	120	24

BH-8	1,1-DCA	PCE	1,1,1-TCA	TCE
45	<5	<5	418	<5
55	<5	<5	226	<5
65	<5	87	930	220

MW-1	1,1-DCA	PCE	1,1,1-TCA	TCE
65	<5	<5	88	39

BH-6	1,1-DCA	PCE	1,1,1-TCA	TCE
10	<5	7	92	<5
20	<5	16	62	<5
40	<5	3,070	<5	<5
60	<5	122	<5	<5

BH-7	1,1-DCA	PCE	1,1,1-TCA	TCE
55	<5	17	711	23
65	<5	41	620	97

Data obtained from Roy F. Weston, Preliminary Assessment Report, 1992

HARTCROWSER

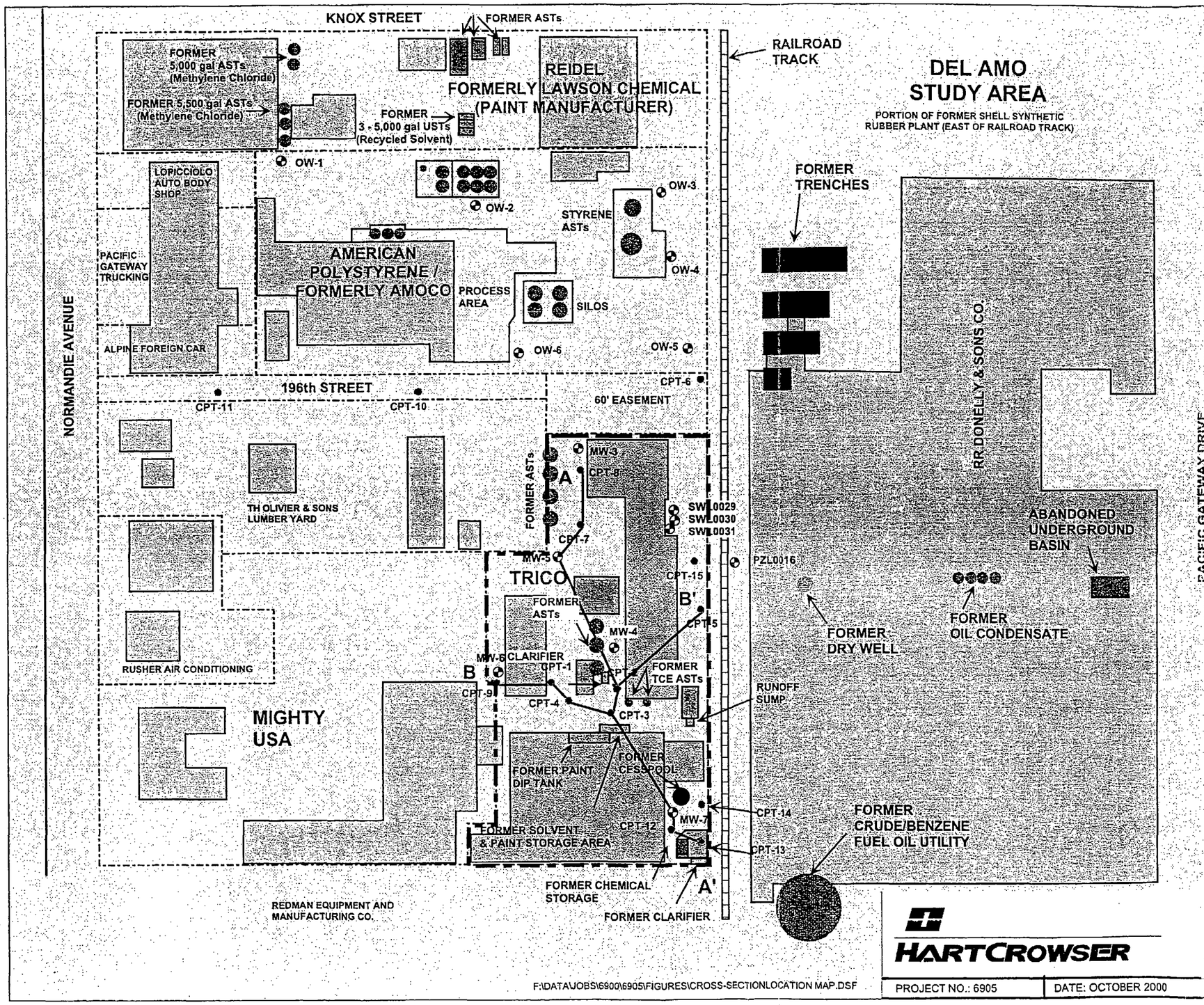
PROJECT NAME: FORMER TRICO - TORRANCE

Historical Soil Analytical Results for Selected Volatile Organic Compounds
1206 W.196th Street, Torrance, CA

PROJECT NO.: 6905 | DATE: October 2000

FIGURE 2

PACCAR 03892



REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

AMOCO CORPORATION - NOTIFICATION OF GROUNDWATER CONTAMINATION, AUGUST 27, 1992 (AMOCO)

TRICO - PRELIMINARY SITE CHARACTERIZATION REPORT, FORMER TRICO INDUSTRIES FACILITY, JULY 12, 1995 (H2O SCIENCE, INC.)

PHASE I REMEDIAL INVESTIGATION REPORT, DEL AMO STUDY AREA, LOS ANGELES, CALIFORNIA, OCTOBER 29, 1993 (DAMES & MOORE)

FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)

● CPT LOCATIONS

◐ MONITORING WELL LOCATIONS

-- SITE BOUNDARY

AST - ABOVEGROUND STORAGE TANK

UST - UNDERGROUND STORAGE TANK

HARTCROWSER

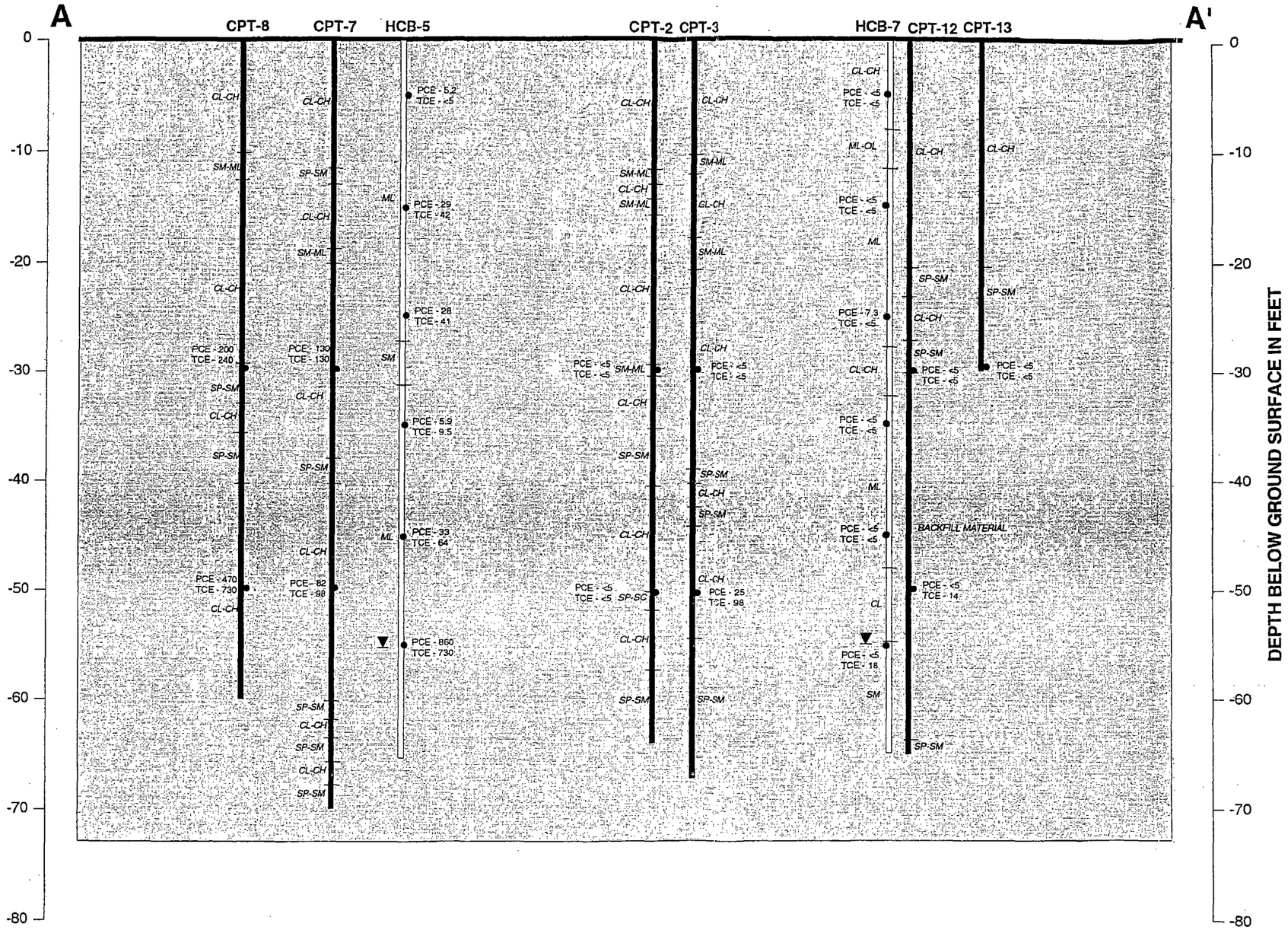
F:\DATA\JOBS\6900\6905\FIGURES\CROSS-SECTIONLOCATION MAP.DSF

PROJECT NO.: 6905	DATE: OCTOBER 2000

PROJECT NAME: TRICO - TORRANCE

Hart Crowser Sampling Locations and Cross-Section Location
1206 W.196th Street
Torrance, CA

FIGURE 3



EXPLANATION

PCE- Tetrachlorethylene
TCE- Trichlorethylene

Concentrations listed in micrograms per kilogram

Only PCE and TCE concentrations are listed in this figure.
Please see tables in the report for a listing of all detected EPA 8260 compounds

CPT Location

Soil Boring

Soil Sampling Location

Groundwater Level

0 60 120
Horizontal Scale in Feet

DRAWN BY: SK
F:\DATA\JOBS\6905\FIGURES\A-ACROSS.DSF

HARTCROWSER

PROJECT NO.: 6905

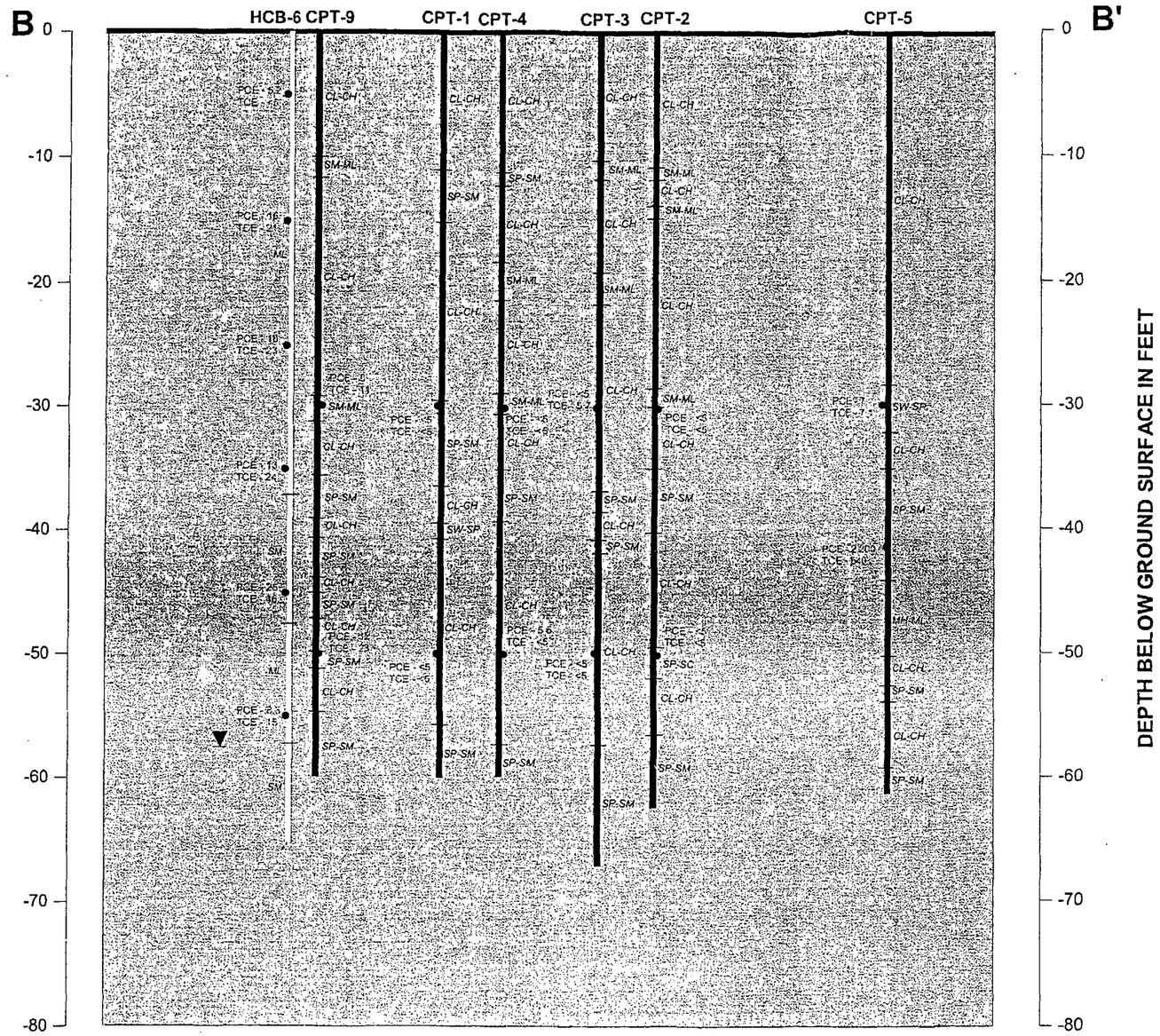
DATE: OCTOBER 2000

PROJECT NAME: FORMER TRICO - TORRANCE

CROSS SECTION A - A'
1206 W.196th Street
Torrance, CA

FIGURE 4

PACCAR 03894



EXPLANATION

PCE- Tetrachlorethylene
TCE- Trichlorethylene
Concentrations listed in micrograms per kilogram

Only PCE and TCE concentrations are listed in this figure.
Please see tables in the report for a listing of all detected EPA 8260 compounds

CPT Location

Soil Boring

Soil Sampling Location

Groundwater Level

0 60 120
Horizontal Scale in Feet

DRAWN BY: SK
F:\DATA\JOBS\6905\FIGURES\B-BCROSS.DSF

HARTCROWSER

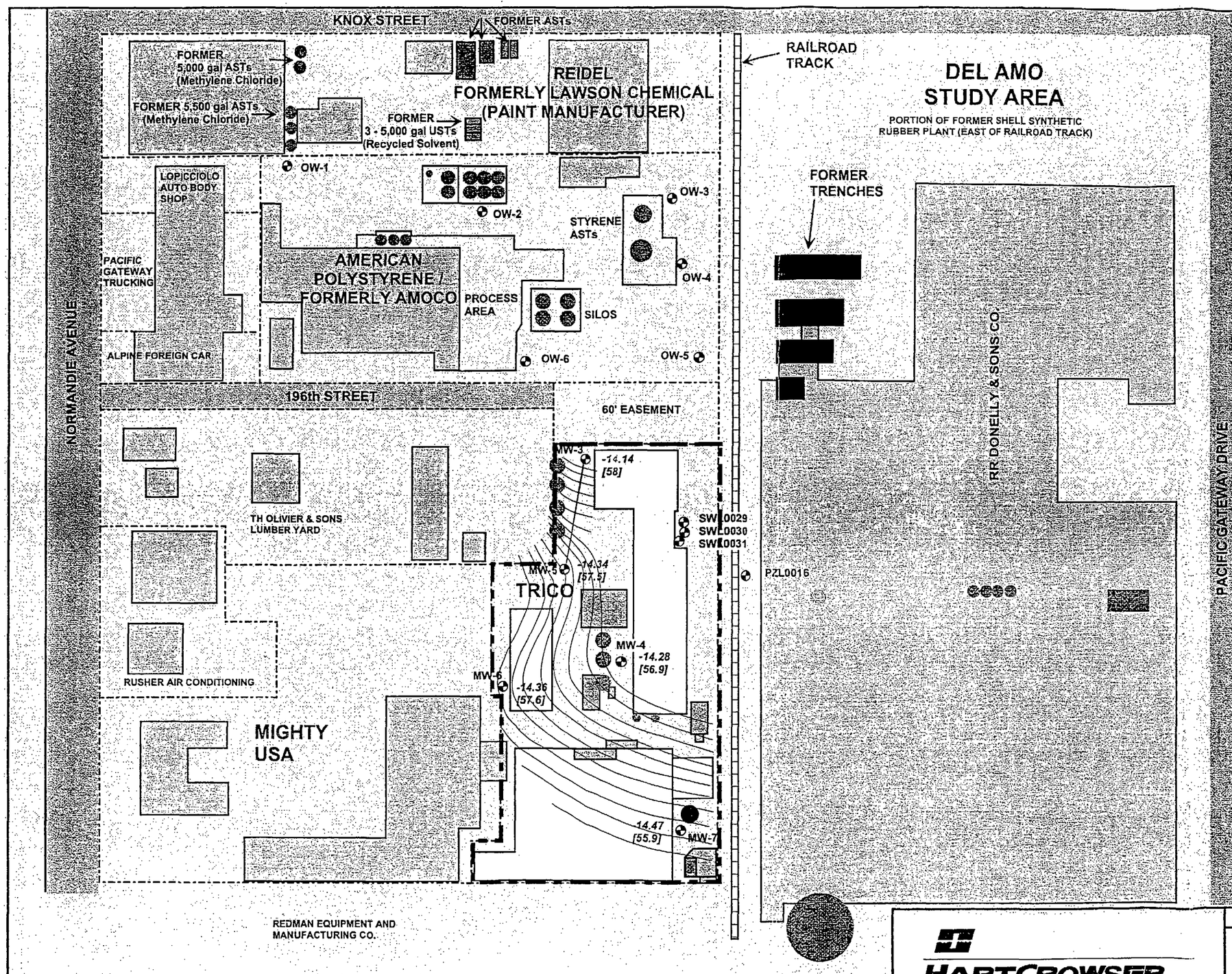
PROJECT NO.: 6905

DATE: OCTOBER 2000

PROJECT NAME: FORMER TRICO - TORRANCE

CROSS SECTION B - B'
1206 W.196th Street
Torrance, CA

FIGURE 5



REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

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FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)

-14.34 = Groundwater Elevation (feet above mean sea level)

[57.5] = Depth ot Groundwater (in feet)

MONITORING WELL LOCATIONS

AST - ABOVE STORAGE TANK

UST - UNDERGROUND STORAGE TANK

HARTCROWSER

PROJECT NAME: TRICO - TORRANCE

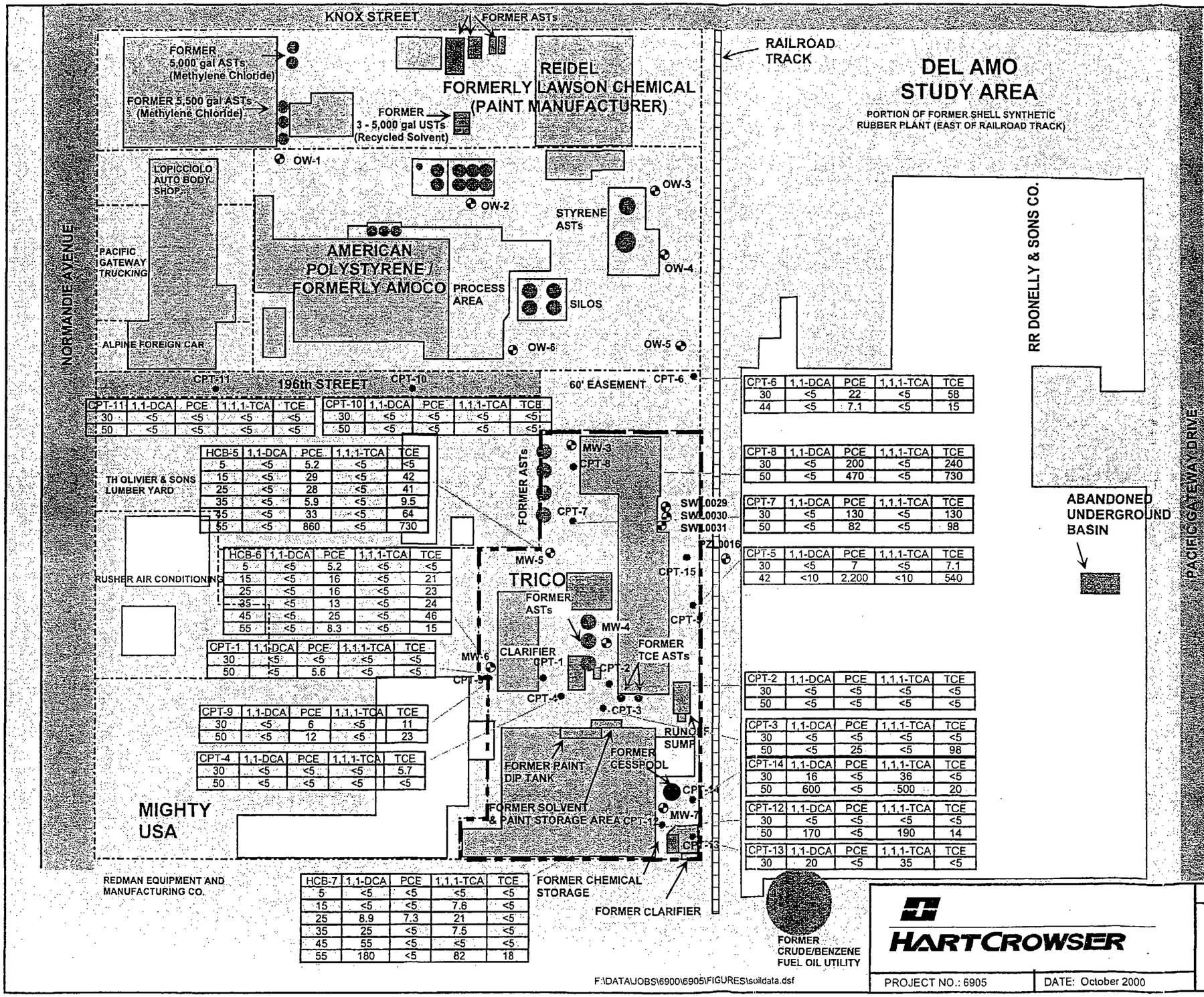
GROUNDWATER CONTOUR MAP
1206 W.196th Street
Torrance, CA

F:\DATA\JOBS\6900\6905\FIGURES\GROUNDWATER ELEVATION.DSF

PROJECT NO.: 6905 | DATE: October 2000

FIGURE 6

PACCAR 03896



CPT-11	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

CPT-10	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

HCB-5	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	5.2	<5	<5
15	<5	29	<5	42
25	<5	28	<5	41
35	<5	5.9	<5	9.5
45	<5	33	<5	64
55	<5	860	<5	730

HCB-6	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	5.2	<5	<5
15	<5	16	<5	21
25	<5	16	<5	23
35	<5	13	<5	24
45	<5	25	<5	46
55	<5	8.3	<5	15

CPT-1	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	5.6	<5	<5

CPT-9	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	6	<5	11
50	<5	12	<5	23

CPT-4	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	5.7
50	<5	<5	<5	<5

HCB-7	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
15	<5	<5	7.6	<5
25	8.9	7.3	21	<5
35	25	<5	7.5	<5
45	55	<5	<5	<5
55	180	<5	82	18

CPT-6	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	22	<5	58
44	<5	7.1	<5	15

CPT-8	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	200	<5	240
50	<5	470	<5	730

CPT-7	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	130	<5	130
50	<5	82	<5	98

CPT-5	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	7	<5	7.1
42	<10	2,200	<10	540

CPT-2	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

CPT-3	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	25	<5	98

CPT-14	1,1-DCA	PCE	1,1,1-TCA	TCE
30	16	<5	36	<5
50	600	<5	500	20

CPT-12	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	170	<5	190	14

CPT-13	1,1-DCA	PCE	1,1,1-TCA	TCE
30	20	<5	35	<5

REFERENCES

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FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)

SITE BOUNDARY
CPT LOCATIONS
MONITORING WELL LOCATIONS

All units are in micrograms per kilogram.

AST - ABOVEGROUND STORAGE TANK
1,1-DCA = 1,1-dichloroethane
PCE = Perchloroethylene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethylene
UST - UNDERGROUND STORAGE TANK

HARTCROWSER

PROJECT NAME: TRICO - TORRANCE

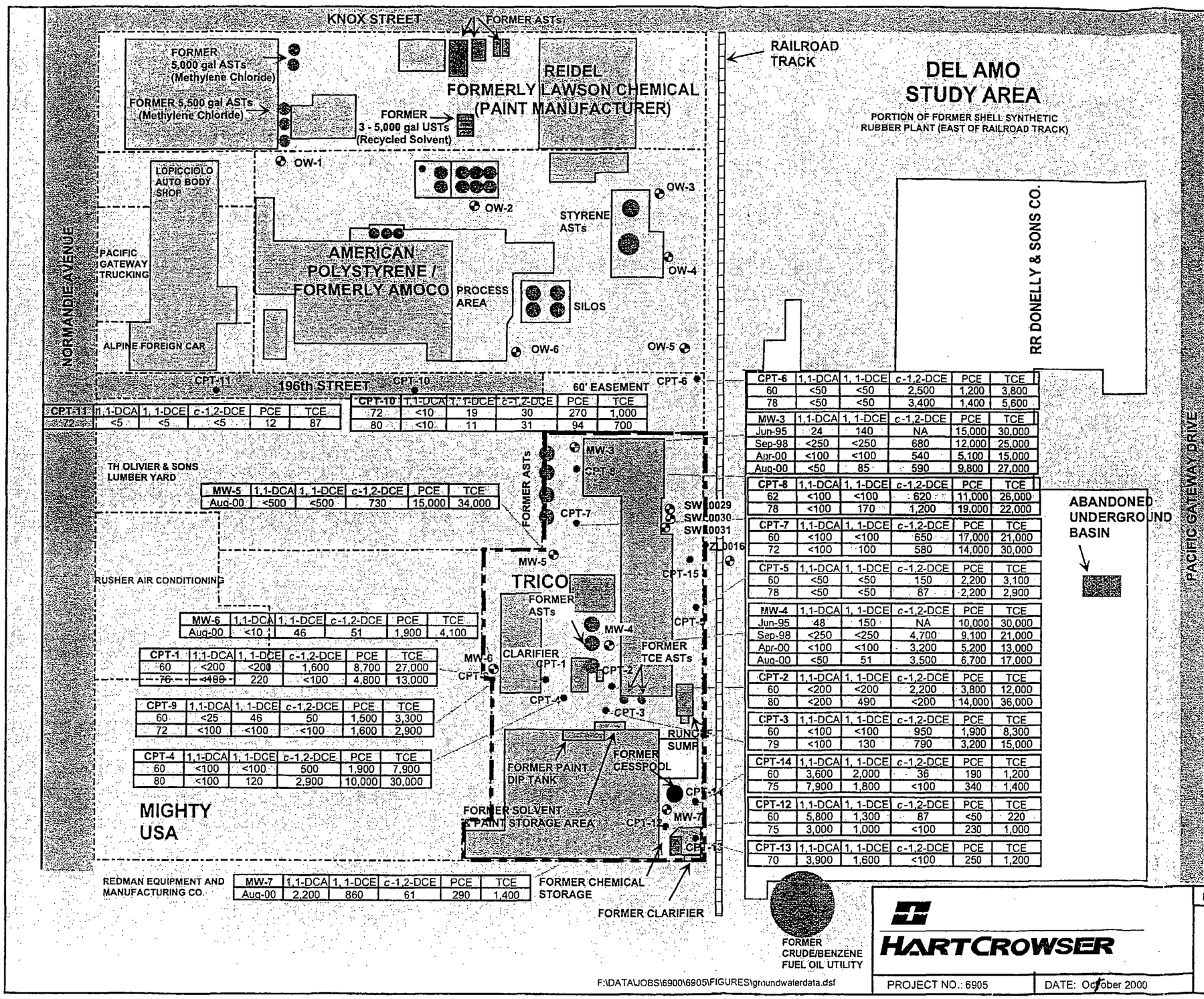
SELECTED VOCs IN SOIL
1206 W.196th Street
Torrance, CA

FIGURE 7

PROJECT NO.: 6905 | DATE: October 2000

F:\DATA\JOBS\6900\6905\FIGURES\soildata.dsf

PACCAR 03897



CPT-11	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
72	<5	<5	<5	12	87

CPT-10	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
72	<10	19	30	270	1,000
80	<10	11	31	94	700

MW-5	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	<500	<500	730	15,000	34,000

MW-6	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	<10	46	51	1,900	4,100

CPT-1	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<200	<200	1,600	8,700	27,000
76	<400	220	<100	4,800	13,000

CPT-9	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<25	46	50	1,500	3,300
72	<100	<100	<100	1,600	2,900

CPT-4	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	500	1,900	7,900
80	<100	120	2,900	10,000	30,000

MW-7	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	2,200	860	61	290	1,400

CPT-6	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<50	<50	2,500	1,200	3,800
78	<50	<50	3,400	1,400	5,600

MW-3	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Jun-95	24	140	NA	15,000	30,000
Sep-98	<250	<250	680	12,000	25,000
Apr-00	<100	<100	540	5,100	15,000
Aug-00	<50	85	590	9,800	27,000

CPT-8	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
62	<100	<100	620	11,000	26,000
78	<100	170	1,200	19,000	22,000

CPT-7	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	650	17,000	21,000
72	<100	100	580	14,000	30,000

CPT-5	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<50	<50	150	2,200	3,100
78	<50	<50	87	2,200	2,900

MW-4	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Jun-95	48	150	NA	10,000	30,000
Sep-98	<250	<250	4,700	9,100	21,000
Apr-00	<100	<100	3,200	5,200	13,000
Aug-00	<50	51	3,500	6,700	17,000

CPT-2	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<200	<200	2,200	3,800	12,000
80	<200	490	<200	14,000	36,000

CPT-3	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	950	1,900	8,300
79	<100	130	790	3,200	15,000

CPT-14	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	3,600	2,000	36	190	1,200
75	7,900	1,800	<100	340	1,400

CPT-12	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	5,800	1,300	87	<50	220
75	3,000	1,000	<100	230	1,000

CPT-13	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
70	3,900	1,600	<100	250	1,200

REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

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FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998, (DAMES & MOORE)

- SITE BOUNDARY
- CPT LOCATIONS
- MONITORING WELL LOCATIONS

All units are in micrograms per liter

AST - ABOVEGROUND STORAGE TANK
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethylene
c-1,2-DCE = cis-1,2-dichloroethylene
PCE = Perchloroethylene
TCE = Trichloroethylene

UST - UNDERGROUND STORAGE TANK

HARTCROWSER

PROJECT NO.: 6905 | DATE: October 2000

PROJECT NAME: TRICO - TORRANCE

SELECTED VOCs IN GROUNDWATER
1206 W.196th Street
Torrance, CA

FIGURE 8

F:\DATA\JOBS\6900\6905\FIGURES\groundwaterdata.dsf

Table 1: Groundwater Measurement Data
Former Trico Facility
1206 West 196 Street, Torrance, California

Well I.D.	Date	Total Depth (feet)	Depth to Water (feet)	Casing Elevation[a] (feet above MSL)	Ground Water Elevation (feet above MSL)
MW-3	8/30/00	66.2	58	43.86	-14.14
MW-4	8/30/00	64.6	56.9	42.62	-14.28
MW-5	8/30/00	65.2	57.5	43.16	-14.34
MW-6	8/30/00	64.6	57.6	43.24	-14.36
MW-7	8/30/00	64.1	55.9	41.43	-14.47

Notes:
[a] Surveyed by Dulin and Boynton Surveyors on 8/31/00
MSL = Mean sea level

f:\data\jobs\6900s\6905\tables\GW Measreument Data.xls\gw-elevation

Table 2
Summary of Soil Analytical Results
PACCAR, Torrance
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH (feet bgs)	DATE	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per kilogram)											
				Chloroform	1,2-DCB	1,4-DCB	1,1-DCA	1,2-DCA	1,1-DCE	*c*-1, 2-DCE	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE
CPT-1	HC-CPT-1-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-1-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**5.6**	<5	<5	<5
CPT-2	HC-CPT-2-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-2-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-3	HC-CPT-3-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-3-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	**6.5**	<50	**25**	<5	<5	**98**
CPT-4	HC-CPT-4-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	**5.7**
	HC-CPT-4-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-5	HC-CPT-5-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**7**	<5	<5	**7.1**
	HC-CPT-5-SS-42'	42	5-Apr-00	<10	<10	<10	<10	<10	<10	<10	<100	**2,200**	<10	<10	**540**
CPT-6	HC-CPT-6-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	**150**	<50	**22**	<5	<5	**58**
	HC-CPT-6-SS-44'	44	5-Apr-00	<5	<5	<5	<5	<5	<5	**68**	<50	**7.1**	<5	<5	**15**
CPT-7	HC-CPT-7-SS-30'	30	10-Apr-00	<5	<5	<5	<5	<5	<5	**32**	<50	**130**	<5	<5	**130**
	HC-CPT-7-SS-50'	50	10-Apr-00	<5	<5	<5	<5	<5	<5	**35**	<50	**82**	<5	<5	**98**
CPT-8	HC-CPT-8-SS-30'	30	6-Apr-00	**14**	<5	<5	<5	**6.2**	<5	**22**	<50	**200**	<5	<5	**240**
	HC-CPT-8-SS-50'	50	6-Apr-00	**14**	**11**	**5.4**	<5	**33**	<5	**36**	**310**	**470**	<5	**11**	**730**
CPT-9	HC-CPT-9-SS-30'	30	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**6**	<5	<5	**11**
	HC-CPT-9-SS-50'	50	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**12**	<5	<5	**23**
CPT-10	HC-CPT-10-SS-33'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-10-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-11	HC-CPT-11-SS-30'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-11-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-12	HC-CPT-12-SS-30'	30	11-Apr-00	<5	<5	<5	<5	**6.9**	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-12-SS-50'	50	11-Apr-00	<5	<5	<5	**170**	**8.4**	**68**	<5	<50	<5	**190**	<5	**14**
CPT-13	HC-CPT-13-SS-30'	30	11-Apr-00	<5	<5	<5	**20**	**8.2**	**13**	<5	<50	<5	**35**	<5	<5
CPT-14	HC-CPT-14-SS-30'	30	11-Apr-00	<5	<5	<5	**16**	**7.2**	**6.4**	<5	<50	<5	**36**	<5	<5
	HC-CPT-14-SS-50'	50	11-Apr-00	<5	<5	<5	**600**	**12**	**110**	<5	<50	<5	**500**	<5	**20**
EPA Region IX PRGs for industrial soil				***520***	***370,000***	***7,300***	***2,000,000***	***760***	***120***	***150,000***	***20,000***	***16,000***	***1,400,000***	***1,900***	***6,100***

1,2-DCB = 1,2-Dichlorobenzene; 1,4-DCB = 1,4-Dichlorobenzene; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;

c-1,2-DCE = *cis*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene

PRGs - Preliminary Remediation Goals (PRG values were obtained from the USEPA website: http://www.epa.gov/region09)

Table 3
Summary o[redacted]nalytical Results, August 2000
Former Trico Facility
1206 West 196th Street, Torrance, California

Boring	Sample ID	Sample Depth (feet bgs)	Date	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per kilogram)								
				Chloro-form	1,2-DCB	Dibromo-chloromethane	1,1-DCA	1,1-DCE	*c*-1, 2-DCE	PCE	1,1,1-TCA	TCE
HCB-5	HCB5-5	5	24-Aug-00	<5	<5	<5	<5	<5	<5	5.2	<5	<5
	HCB5-15	15	24-Aug-00	<5	<5	<5	<5	<5	22	29	<5	42
	HCB5-25	25	24-Aug-00	<5	<5	<5	<5	<5	19	28	<5	41
	HCB5-35	35	24-Aug-00	<5	<5	<5	<5	<5	6.9	5.9	<5	9.5
	HCB5-45	45	24-Aug-00	<5	<5	<5	<5	<5	29	33	<5	64
	HCB5-55	55	24-Aug-00	14	<5	12	<5	<5	75	860	<5	730
HCB-6	HCB6-5	5	24-Aug-00	<5	<5	<5	<5	<5	<5	5.2	<5	<5
	HCB6-15	15	24-Aug-00	<5	<5	<5	<5	<5	<5	16	<5	21
	HCB6-25	25	25-Aug-00	<5	<5	<5	<5	<5	<5	16	<5	23
	HCB6-35	35	25-Aug-00	<5	<5	<5	<5	<5	<5	13	<5	24
	HCB6-45	45	25-Aug-00	<5	<5	<5	<5	<5	<5	25	<5	46
	HCB6-55	55	25-Aug-00	<5	<5	<5	<5	<5	<5	8.3	<5	15
HCB-7	HCB7-5	5	25-Aug-00	<5	<5	<5	<5	<5	<5	<5	<5	<5
	HCB7-15	15	25-Aug-00	<5	<5	<5	<5	<5	<5	<5	7.6	<5
	HCB7-25	25	25-Aug-00	<5	6.1	<5	8.9	<5	<5	7.3	21	<5
	HCB7-35	35	25-Aug-00	<5	<5	<5	25	<5	<5	<5	7.5	<5
	HCB7-45	45	25-Aug-00	<5	<5	<5	55	<5	<5	<5	<5	<5
	HCB7-55	55	25-Aug-00	<5	<5	<5	180	86	<5	<5	82	18
EPA Region IX PRGs for Industrial soil				***520***	***370,000***	***7,300***	***2,000,000***	***120***	***150,000***	***16,000***	***1,400,000***	***6,100***

1,2-DCB = 1,2-dichlorobenzene; 1,1-DCA = 1,1-dichloroethane; 1,1-DCE = 1,1-dichloroethene;
c-1,2-DCE = *cis*-1,2-dichloroethene; PCE = tetrachloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; TCE = trichloroethene
PRGs - Preliminary Remediation Goals (PRG values were obtained from the EPA website: http://www.epa.gov/region09)
EPA - Environmental Protection Agency
bgs - Below ground surface

Table 4
Summary of Groundwater Analytical Results
PACCAR, Torrance
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH (feet bgs)	DATE	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per liter)												
				Benzene	2-Butanone	Chloroform	1,2-DCB	DDM	1,1-DCA	1, 2-DCA	1, 1-DCE	*c*-1,2-DCE	*t*-1, 2-DCE	PCE	1,1,1-TCA	TCE
CPT-1	HC-CPT-1-GW-60'	60	3-Apr-00	<100	<2,000	210	<200	<200	<200	<100	<200	1,600	<200	8,700	<200	27,000
	HC-CPT-1-GW-76'	76	3-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	220	<100	<100	4,800	<100	13,000
CPT-2	HC-CPT-2-GW-60'	60	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	<200	2,200	<200	3,800	<200	12,000
	HC-CPT-2-GW-80'	80	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	490	<200	<200	14,000	<200	36,000
CPT-3	HC-CPT-3-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	950	<100	1,900	<100	8,300
	HC-CPT-3-GW-79'	79	4-Apr-00	<50	<1,000	100	<100	<100	<100	<50	130	790	<100	3,200	<100	15,000
CPT-4	HC-CPT-4-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	500	<100	1,900	<100	7,900
	HC-CPT-4-GW-80'	80	4-Apr-00	70	<1,000	220	<100	<100	<100	64	120	2,900	<100	10,000	<100	30,000
CPT-5	HC-CPT-5-GW-60'	60	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	150	<50	2,200	<50	3,100
	HC-CPT-5-GW-78'	78	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	87	<50	2,200	<50	2,900
CPT-6	HC-CPT-6-GW-60'	60	5-Apr-00	<25	<500	90	<50	<50	<50	<25	<50	2,500	<50	1,200	<50	3,800
	HC-CPT-6-GW-78'	78	4-Apr-00	<25	<500	68	<50	<50	<50	<25	<50	3,400	<50	1,400	<50	5,600
CPT-7	HC-CPT-7-GW-60'	60	10-Apr-00	<50	<1,000	150	<100	<100	<100	<50	<100	650	<100	17,000	<100	21,000
	HC-CPT-7-GW-72'	72	11-Apr-00	<50	<1,000	160	<100	<100	<100	<50	100	580	<100	14,000	<100	30,000
CPT-8	HC-CPT-8-GW-62'	62	6-Apr-00	<50	<1,000	190	<100	<100	<100	76	<100	620	<100	11,000	<100	26,000
	HC-CPT-8-GW-78'	78	5-Apr-00	100	<1,000	340	120	<100	<100	120	170	1,200	<100	19,000	<100	22,000
CPT-9	HC-CPT-9-GW-60'	60	7-Apr-00	<13	<250	37	<25	<25	<25	<13	46	50	<25	1,500	<25	3,300
	HC-CPT-9-GW-72'	72	7-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	<100	<100	<100	1,600	<100	2,900
CPT-10	HC-CPT-10-GW-72'	72	7-Apr-00	<5	<100	21	<10	<10	<10	<5	19	30	24	270	<10	1,000
	HC-CPT-10-GW-80'	80	6-Apr-00	<5	<100	22	<10	<10	<10	<5	11	31	24	94	<10	700
CPT-11	HC-CPT-11-GW-72'	72	6-Apr-00	3.4	85	6.8	<5.0	13	<5	<2.5	<5	<5.0	<5	12	<5	87
CPT-12	HC-CPT-12-GW-60'	60	11-Apr-00	<25	<500	<50	<50	<50	5,800	<25	1,300	87	<50	<50	500	220
	HC-CPT-12-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	3,000	120	1,000	<100	<100	230	<100	1,000
CPT-13	HC-CPT-13-GW-70'	70	10-Apr-00	<50	<1,000	<100	<100	<100	3,900	91	1,600	<100	<100	250	<100	1,200
CPT-14	HC-CPT-14-GW-60'	60	11-Apr-00	<13	<250	<25	<25	<25	3,600	23	2,000	36	<25	190	550	1,200
	HC-CPT-14-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	7,900	150	1,800	<100	<100	340	<100	1,400
MW-3	MW-3	-	5-Apr-00	<50	<1,000	110	<100	<100	<100	54	<100	540	<100	5,100	<100	15,000
MW-3A	MW-3A	-	5-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	570	<100	5,000	<100	14,000
MW-4	MW-4	-	5-Apr-00	<50	<1,000	170	<100	<100	<100	<50	<100	3,200	<100	5,200	<100	13,000
California State Maximum Contaminant Level (MCL) [1]				*1*	*-*	*100*	*600*	*-*	*5*	*0.5*	*6*	*6*	*10*	*5*	*200*	*5*
EPA Region IX PRGs - Tap Water [2]				*-*	*1,900*	*-*	*-*	*3,900*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*

1,2-DCB = 1,2-Dichlorobenzene; DDM = Dicholorodifluoromethane; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; *t*-1,2-DCE = *trans*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene

[1] - MCL (primary) values were obtained from the Department of Health Services website - http://www.dhs.cahwnet.gov/
[2]

Table 5
Summary of Groundwater Analytical Results, August 2000
Former Trico Facility
1206 West 196th Street, Torrance, California

Well	Date	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per liter)										
		Benzene	Chloroform	1,2-DCB	1,1-DCA	1, 2-DCA	1, 1-DCE	*c*-1,2-DCE	PCE	1,1,1-TCA	TCE	VC
MW-3	5-Apr-00	<50	110	<100	<100	54	<100	540	5,100	<100	15,000	<50
MW-3A	5-Apr-00	<50	120	<100	<100	<50	<100	570	5,000	<100	14,000	<50
MW-3	30-Aug-00	33	93	<50	<50	<25	85	590	9,800	<50	27,000	<25
MW-4	5-Apr-00	<50	170	<100	<100	<50	<100	3,200	5,200	<100	13,000	<50
MW-4	30-Aug-00	29	140	<50	<50	<25	51	3,500	6,700	<50	17,000	<25
MW-5	31-Aug-00	<250	<500	<500	<500	<250	<500	730	15,000	<500	34,000	<250
MW-5A	31-Aug-00	<250	<500	<500	<500	<250	<500	750	14,000	<500	31,000	<250
MW-6	30-Aug-00	<5	29	<10	<10	<5	46	51	1,900	<10	4,100	<5
MW-7	30-Aug-00	6	<10	13	2,200	12	860	64	290	240	1,400	15
MCL		*1*	*100*	*600*	*5*	*0.5*	*6*	*6*	*5*	*200*	*5*	*0.5*

1,2-DCB = 1,2-Dichlorobenzene; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; VC = Vinyl Chloride

California State Primary Maximum Contaminant Level (MCL) values were obtained from the Department of Health Services website - http://www.dhs.cahwnet.gov/
EPA - United States Environmental Protection Agency

Table 6
Summary of Carbon-Chain Analytical Results, August 2000
Former Trico Facility
1206 W. 196th Street
Torrance, CA

Sample	Sample Depth (feet bgs)	Carbon Range Analysis by EPA Method 8015 Modified (in milligrams per kilogram)														
		C_7	C_8	C_{9-10}	C_{11-12}	C_{13-14}	C_{15-16}	C_{17-18}	C_{19-20}	C_{21-22}	C_{23-24}	C_{25-28}	C_{29-32}	C_{33-36}	C_{36+}	TPH (as diesel)
HCB7-35	35	ND	ND	ND	ND	1	7	10	41	43	78	221	274	204	48	927
HCB7-45	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	20

bgs - Below ground surface
ND - Not Detected
TPH - Total Petroleum Hydrocarbon

f:\data\jobs\6900s\6905\tables\analresults-mwinstallation.xls\carbon range

CPT SURVEY REPORT AND BORING LOGS

PRESENTATION

OF

CONE PENETRATION TEST DATA

Prepared for:

PACCAR TORRANCE SITE
1206 W. 196th Street
Los Angeles, CA
April 3-11, 2000

Prepared for:

HART CROWSER
One World Trade Center, Ste 2460
Long Beach, CA 90831
Office (562) 495-6360 / Fax (562) 495-6361

Prepared by:

KEHOE TESTING & ENGINEERING
15571 Industry Lane
Huntington Beach, CA 92649-1534
Office (714) 901-7270 / Fax (714) 901-7289

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- Computer Disks with CPT Excel Files

PRESENTATION OF CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out at a **Paccar Torrance Site** located in **Los Angeles, CA**. The work was performed by **KEHOE TESTING & ENGINEERING (KTE)** on **April 3-11, 2000**. The scope of work was performed as directed by Hart Crowser personnel.

2. SUMMARY OF FIELD WORK

The field work consisted of performing CPT soundings at 14 locations to determine the soil lithology. After completion of each CPT sounding, soil samples were taken at depths of approximately 30 and 50 feet and groundwater samples were taken at depths of approximately 60-65 feet and 70-80 feet. The soil and groundwater samples were taken adjacent to the CPT soundings (approximately 2 to 3 feet apart). At location CPT-12, the CPT sounding likely entered the backfill from a previous borehole from a depth of 30 to 65 feet. The previous borehole was approximately 2 feet from the CPT sounding. An additional location, CPT-15, was performed to a depth of 20 feet to evaluate a severely deteriorated asphalt surface. Soil samples were also taken at depths of 1, 5, 10 & 15 feet at this location.

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cordless cone system manufactured by Geotech Equipment. **FIGURE 3.1** provides a schematic drawing of this system. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a PowerProbe direct push rig anchored with a six-inch diameter ground anchor. This rig has a pushing capacity of approximately 15 tons. The cones used during the program recorded the following parameters at 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed
- Pore Pressure Dissipation (at selected depths)

The above parameters were recorded and viewed in real time using a portable computer and stored on a diskette for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operation properly. The electronic cones manufactured by Geotech Equipment have downhole analog to digital conversion and temperature compensation to provide accurate load measurements. **FIGURE 3.2** provides the specifications of the cone penetrometer used for this project.

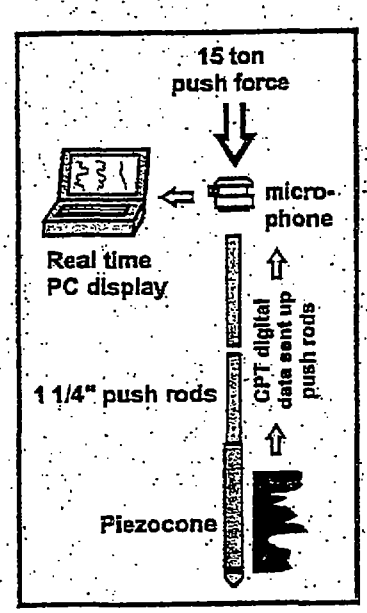


FIGURE 3.1 – CPT System

CONE SERIAL #:	3283
CAPACITIES	
Cone Resistance Capacity:	100 Mpa
Friction Sleeve Capacity:	1.00 Mpa
Pore Pressure Capacity:	2.50 Mpa
DIMENSIONS	
Tip Projected Area:	10 cm^2
Friction Sleeve Area:	150 cm^2
Pore Pressure Filter Thickness:	5 mm
Area Ratio:	0.85
PORE PRESSURE FILTER	
Material:	Sintered Brass
Saturation Material:	Glycerin

FIGURE 3.2 – Specifications of Cone Penetrometer

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. Penetration depths are referenced to ground surface. The soil classification on the CPT plots is derived from the CPT Classification Chart (provided in the Appendix) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The interpretation of soils encountered on this project was carried out using correlations developed by Robertson et al, 1988. It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an

assessment of the pore pressure dissipation data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

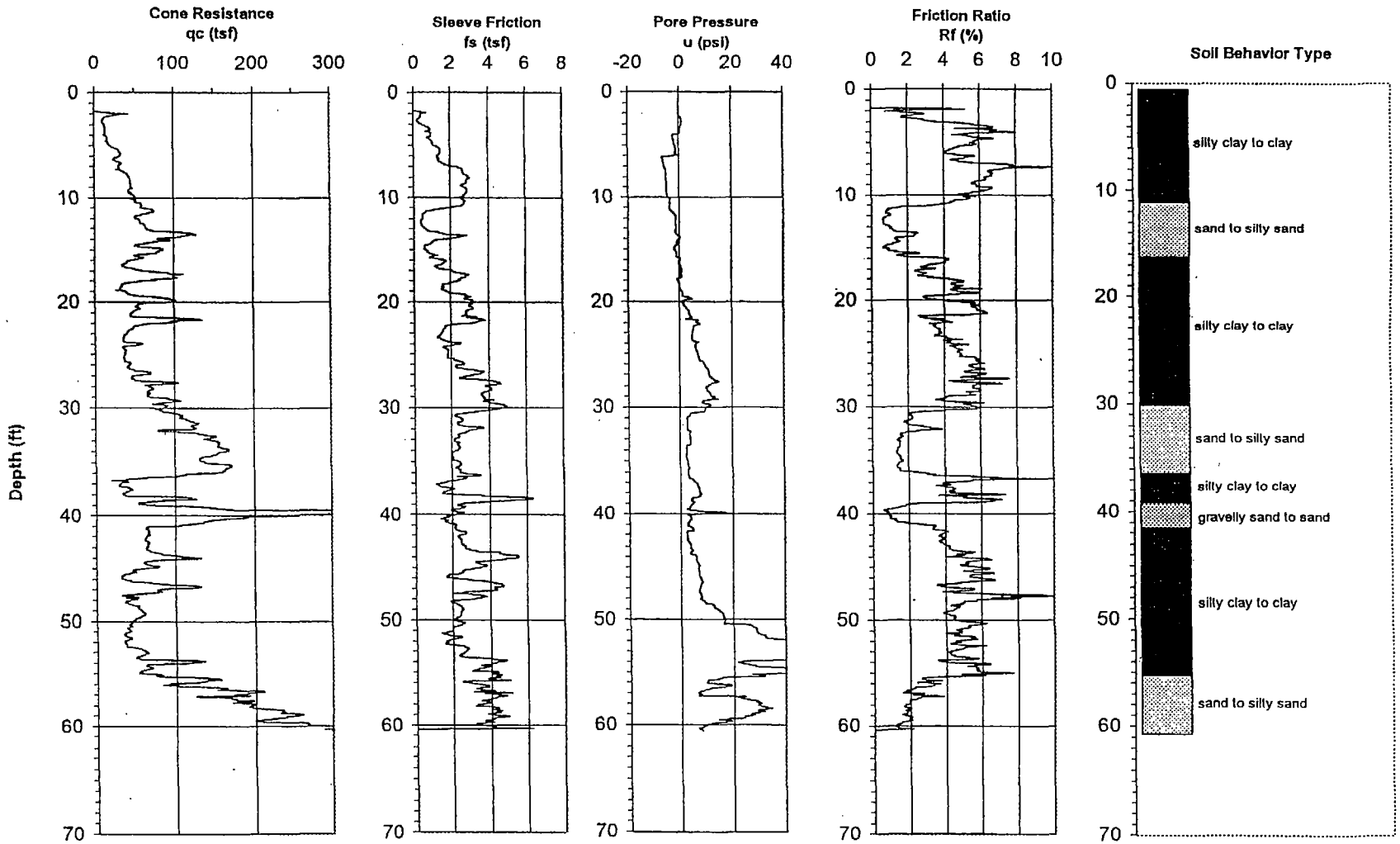
KEHOE TESTING & ENGINEERING

Steve Kehoe, P.E.
President

APPENDIX

KEHOE TESTING & ENGINEERING

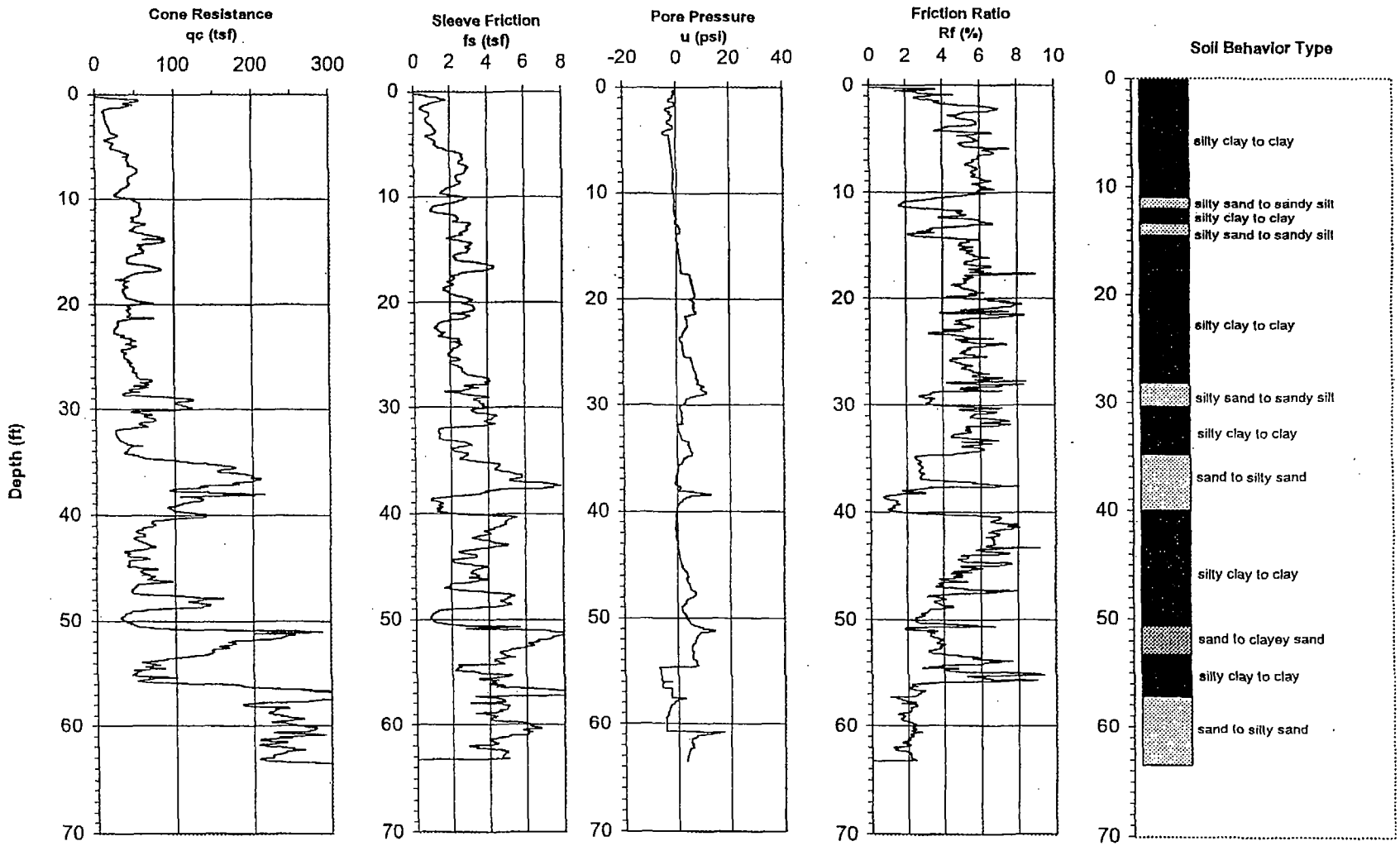
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-1**	**CPT Date :**	**4/3/00**



PACCAR 03912

KEHOE TESTING & ENGINEERING

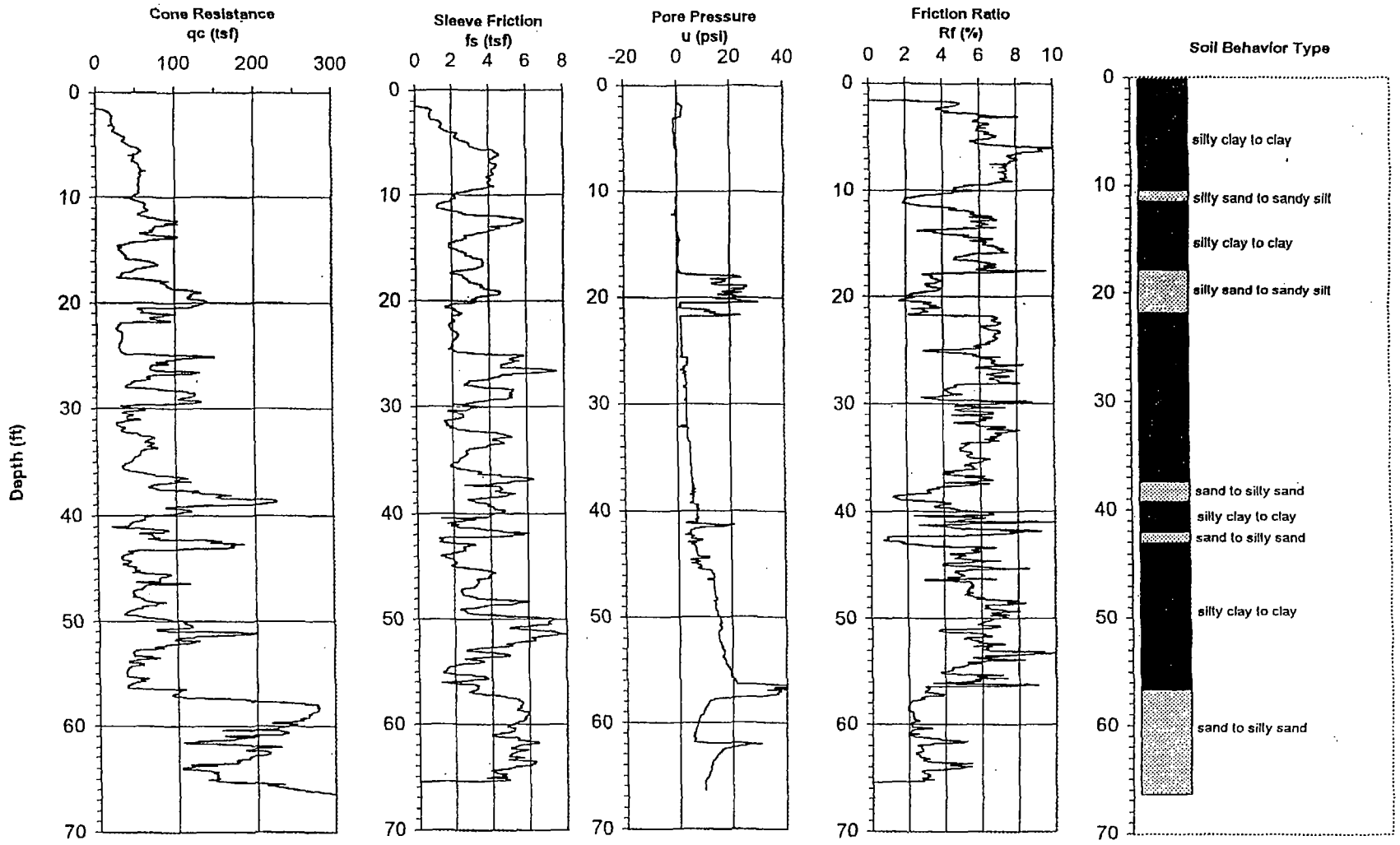
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-2	CPT Date :	4/3/00



PACCAR 03913

KEHOE TESTING & ENGINEERING

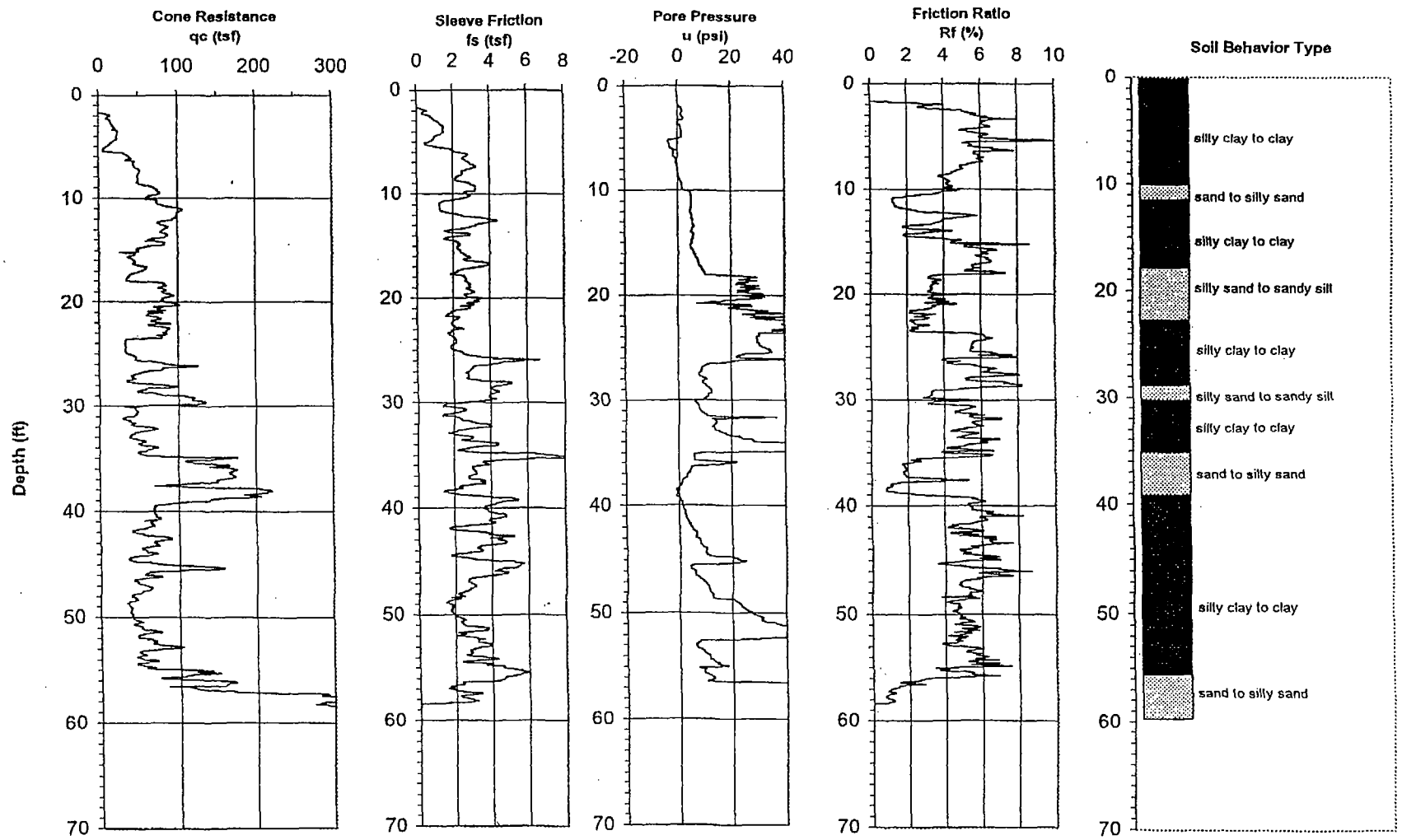
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-3**	**CPT Date :**	**4/3/00**



PACCAR 03914

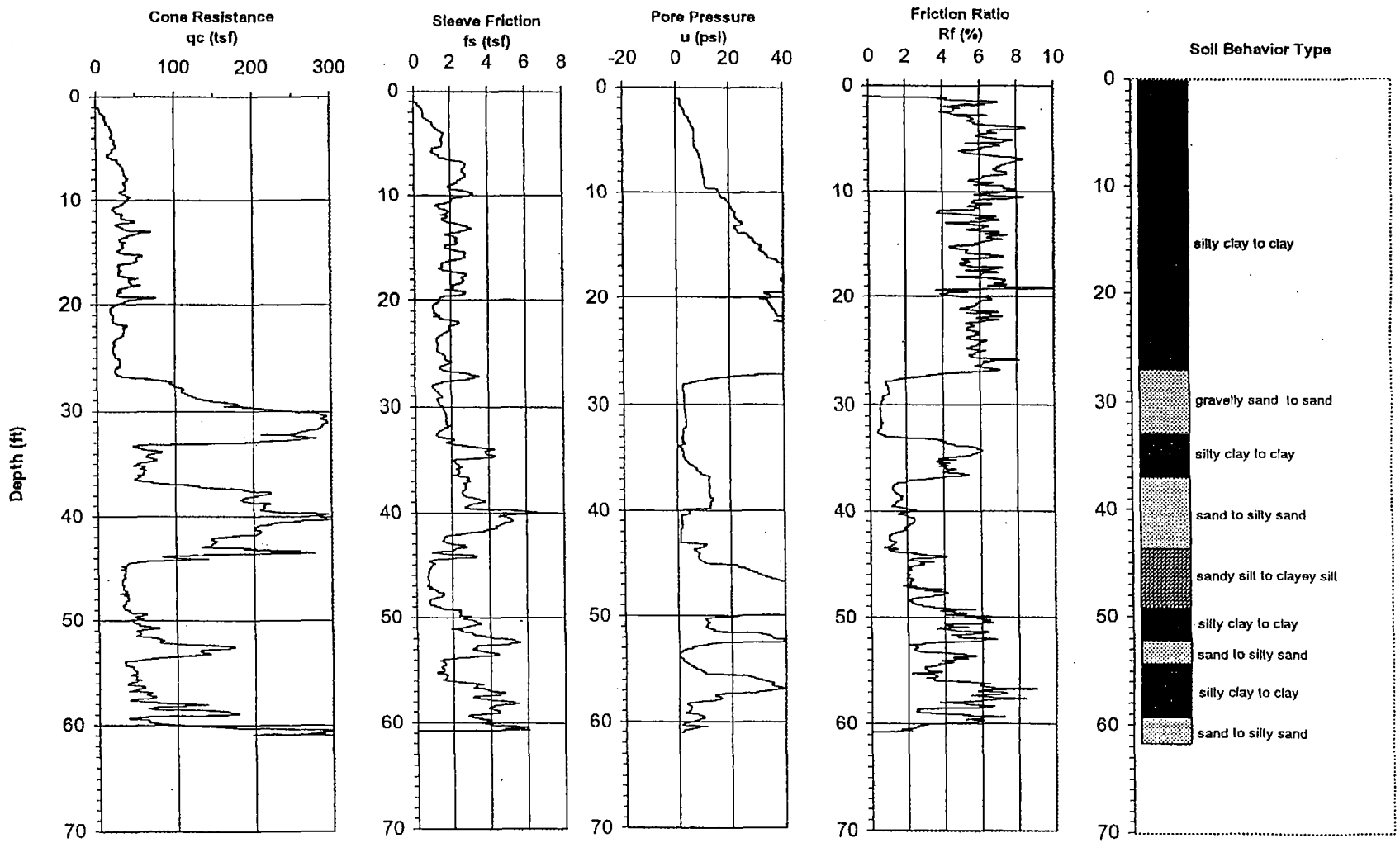
KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-4**	**CPT Date :**	**4/3/00**



KEHOE TESTING & ENGINEERING

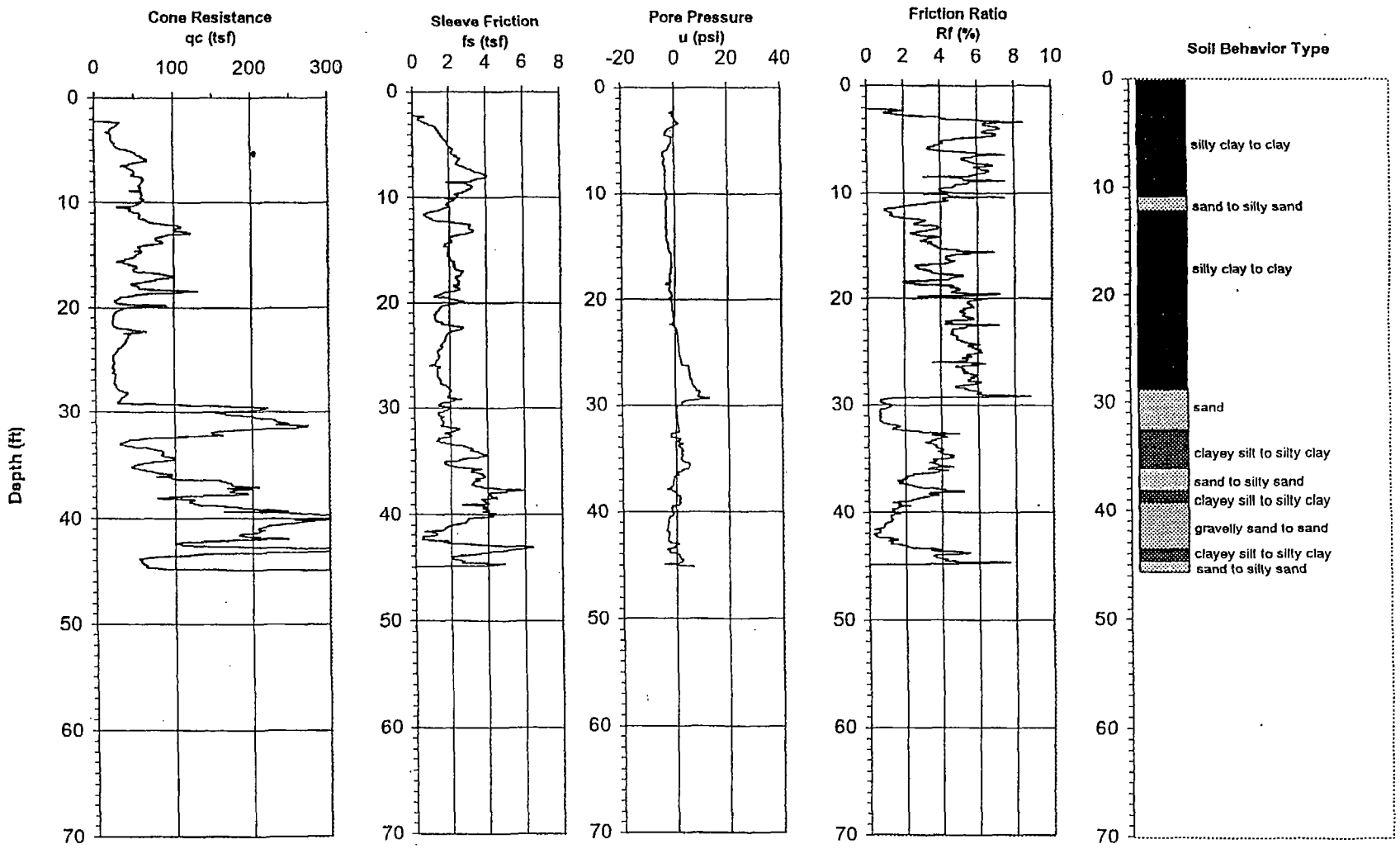
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-5**	**CPT Date :**	**4/4/00**



PACCAR 03916

KEHOE TESTING & ENGINEERING

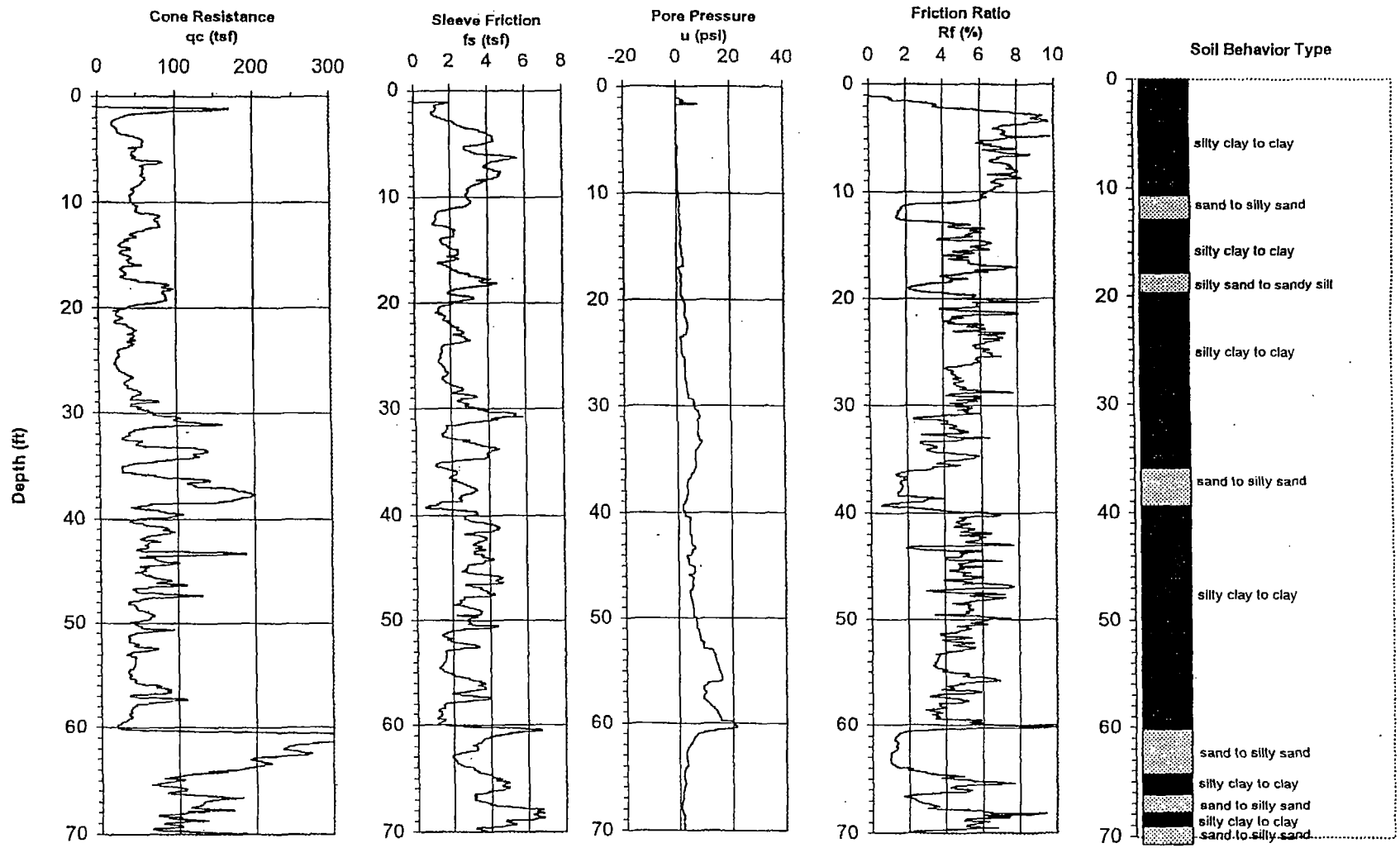
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-6**	**CPT Date :**	**4/4/00**



PACCAR 03917

KTE
KEHOE TESTING & ENGINEERING

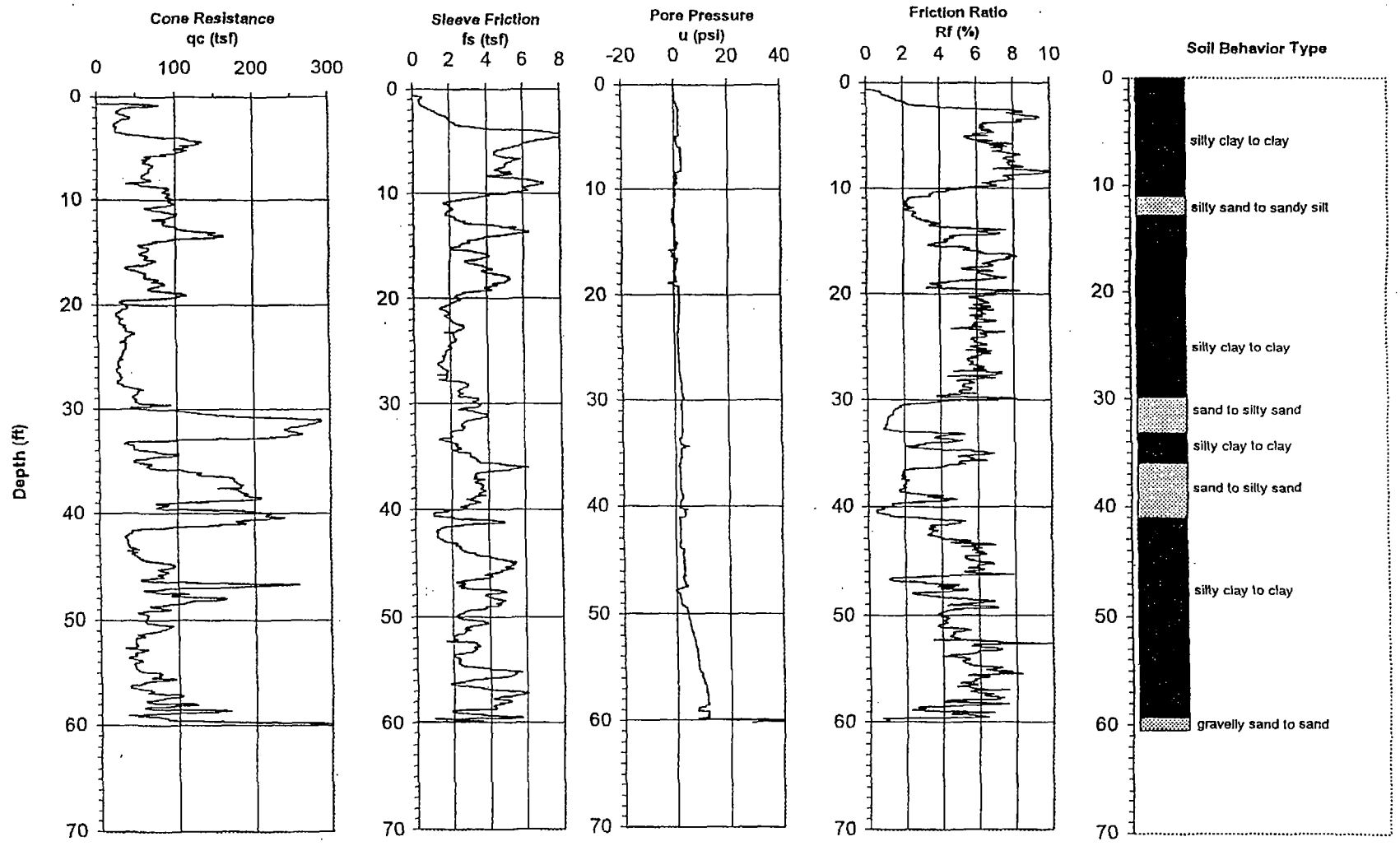
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-7**	**CPT Date :**	**4/4/00**



PACCAR 03918

KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-8	CPT Date :	4/4/00



KTE
KEHOE TESTING & ENGINEERING

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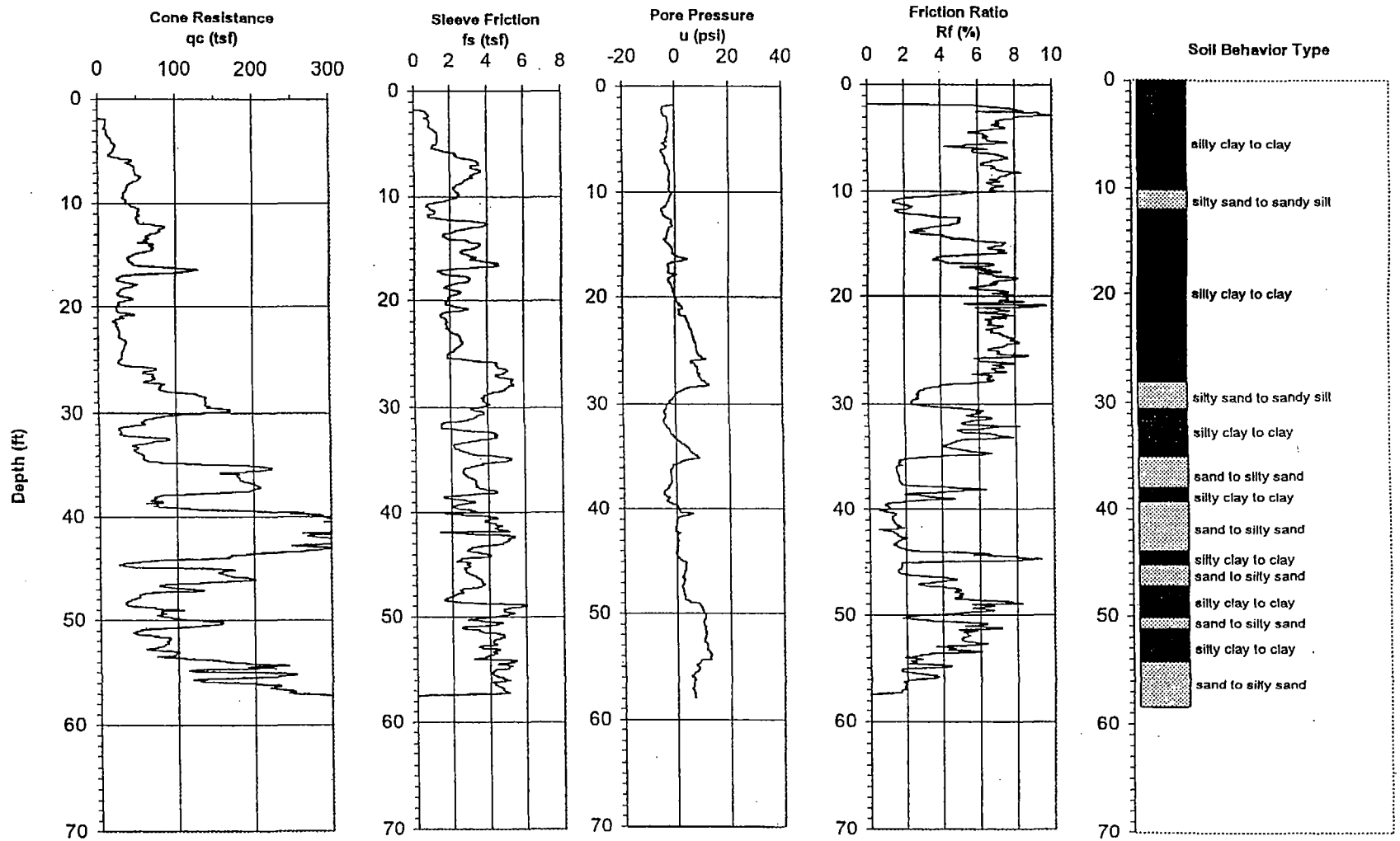

PACCAR 03920

KEHOE TESTING & ENGINEERING

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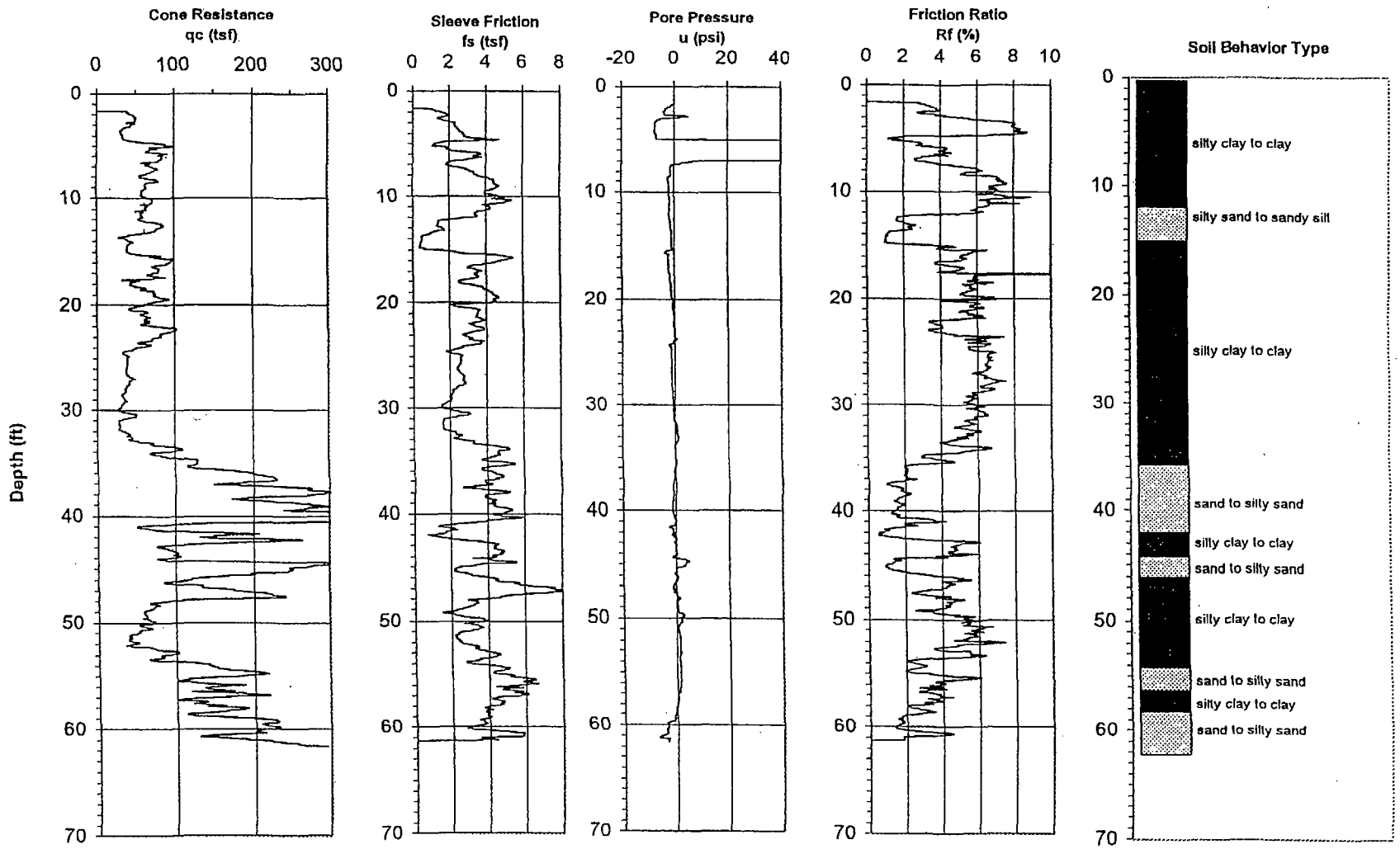

PACCAR 03921

KEHOE TESTING & ENGINEERING

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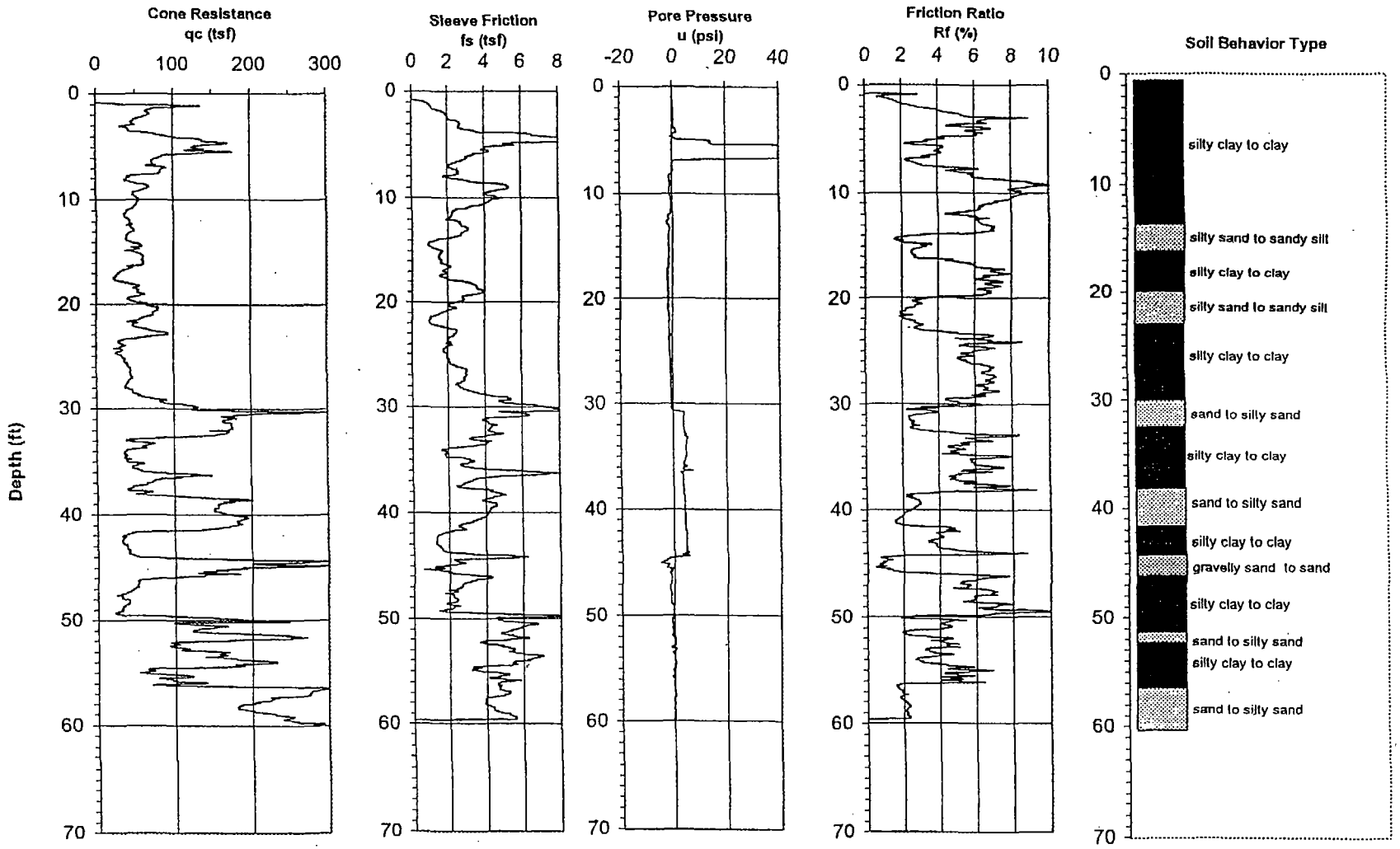

PACCAR 03922

KTE
KEHOE TESTING & ENGINEERING

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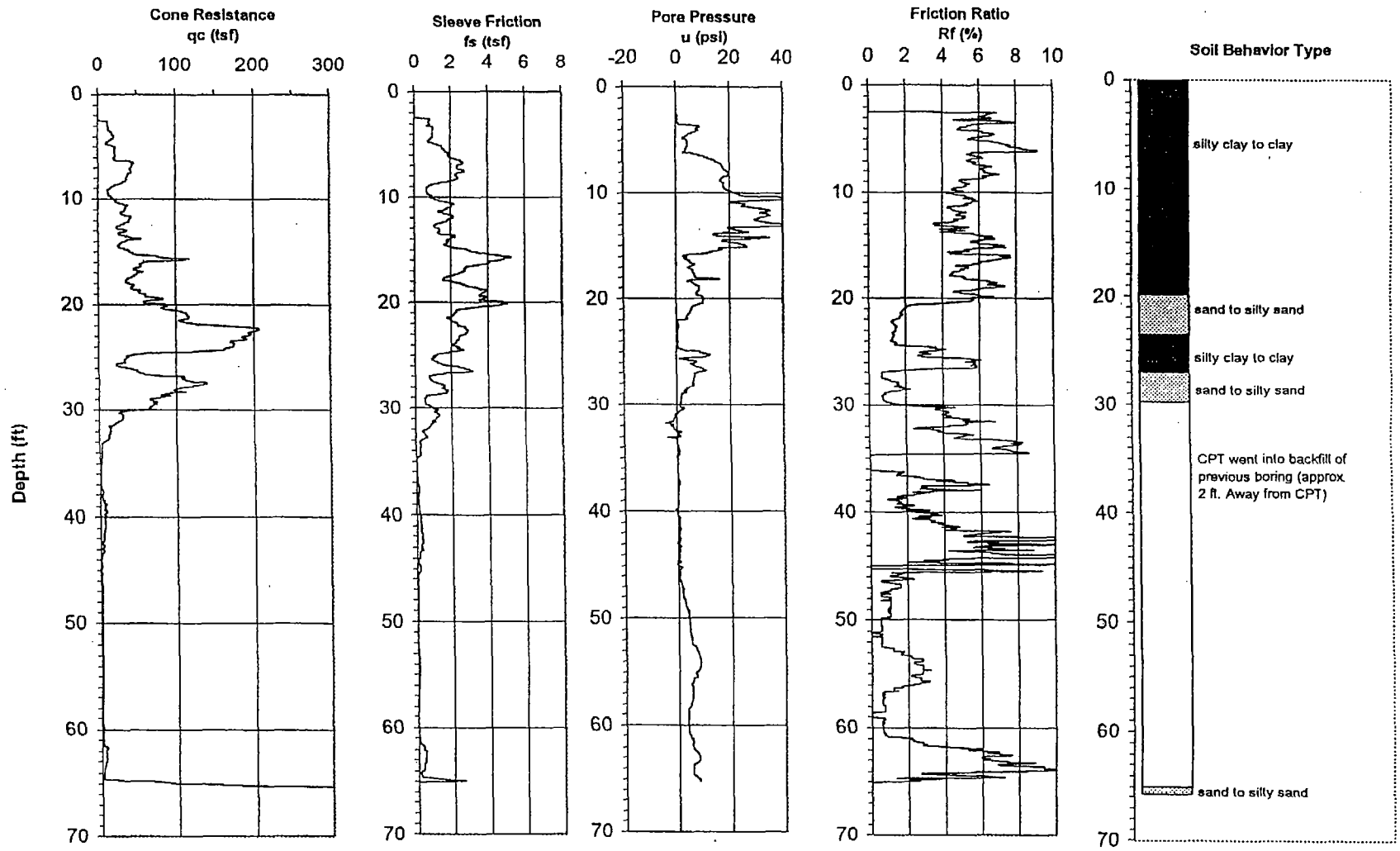

KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	**Client :**	Hart Crowser
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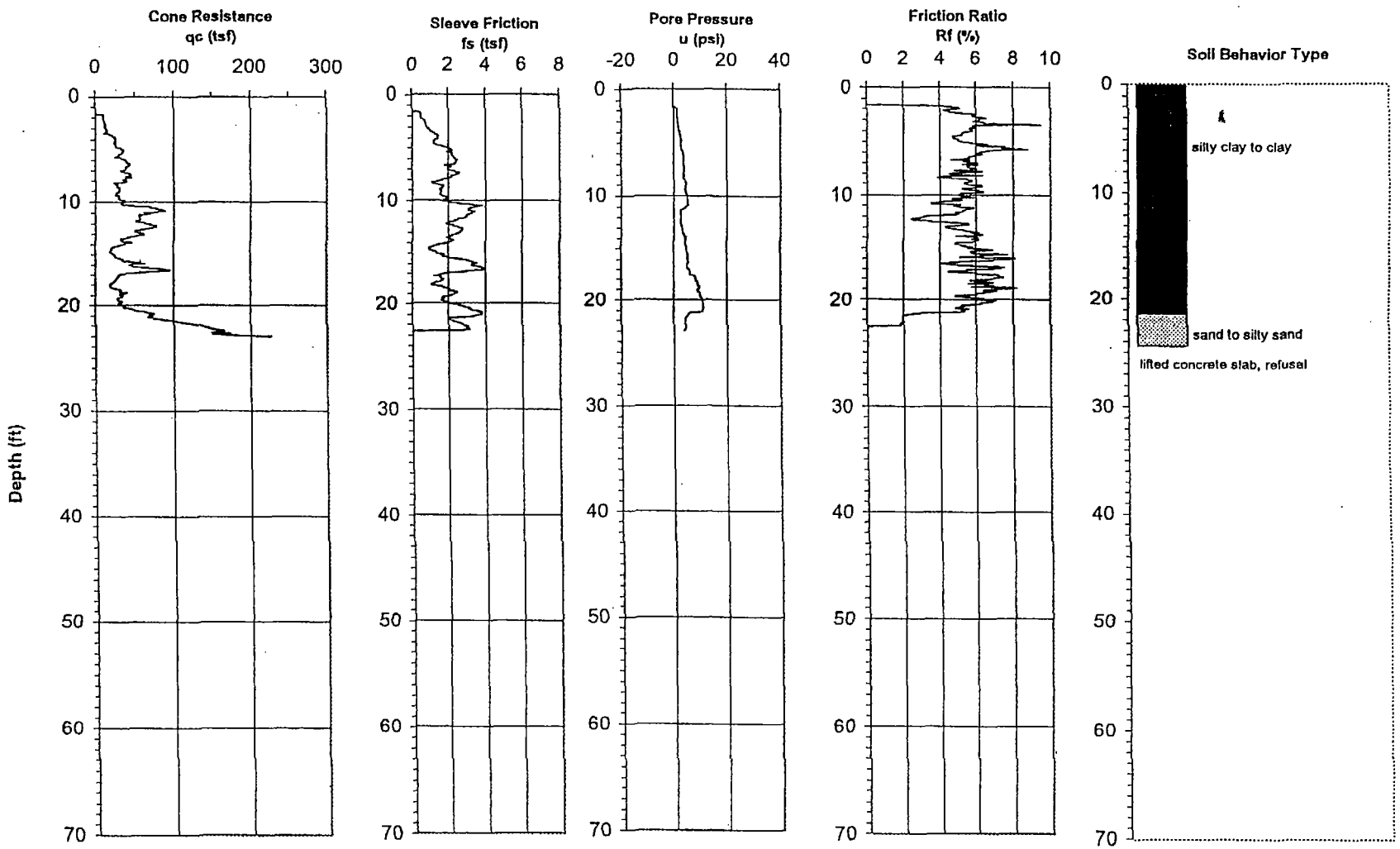

PACCAR 03924

KEHOE TESTING & ENGINEERING

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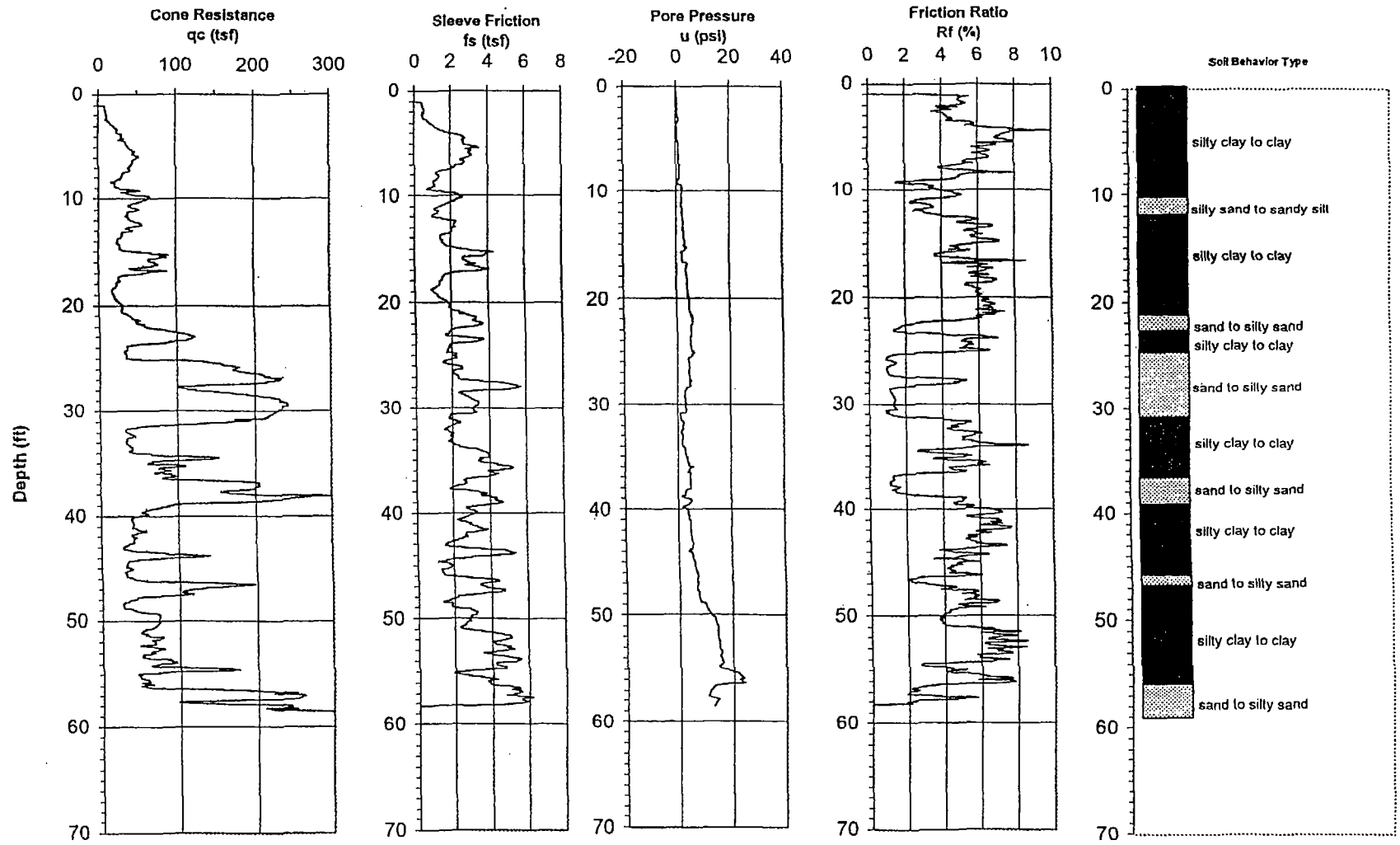

KEHOE TESTING & ENGINEERING

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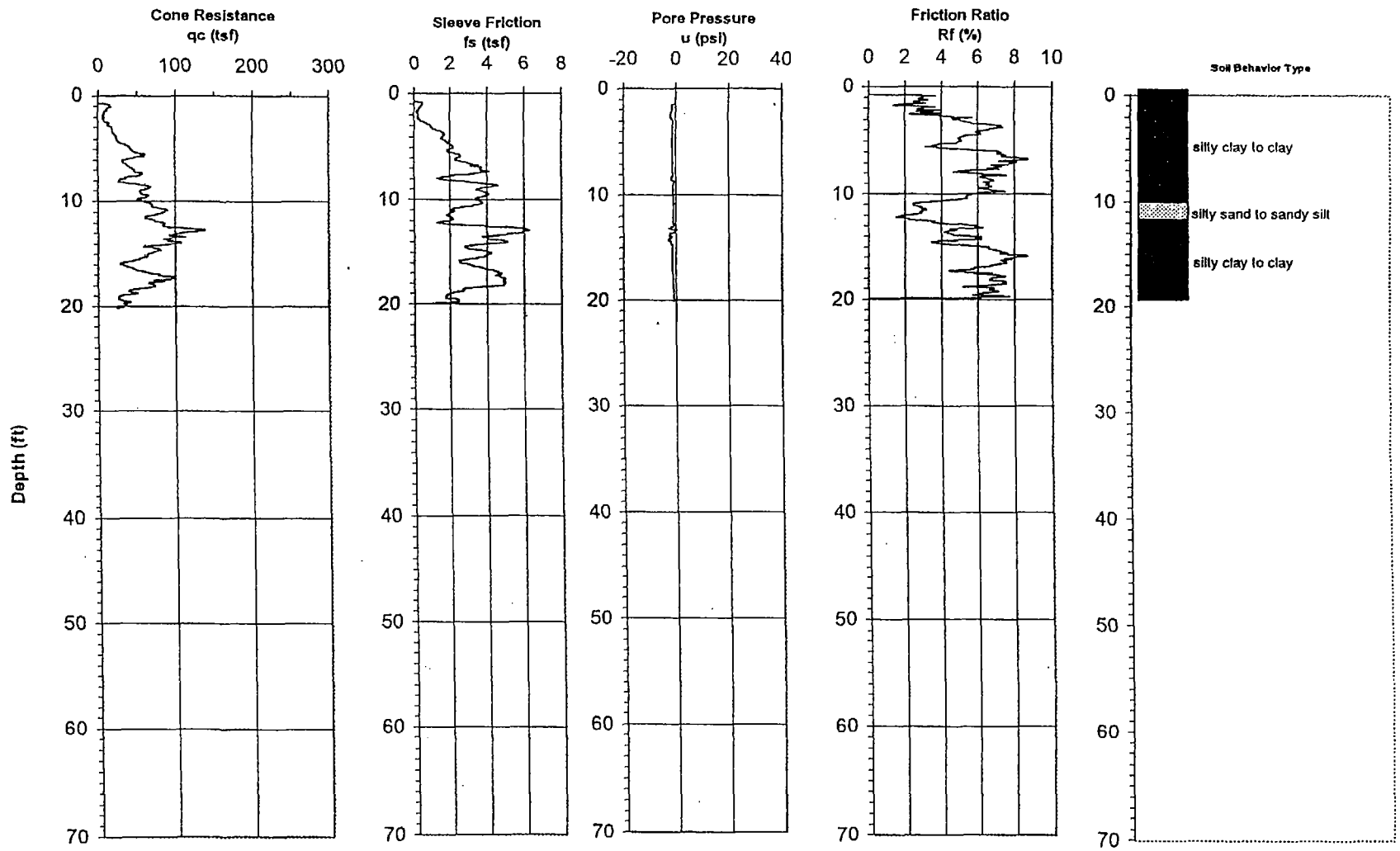
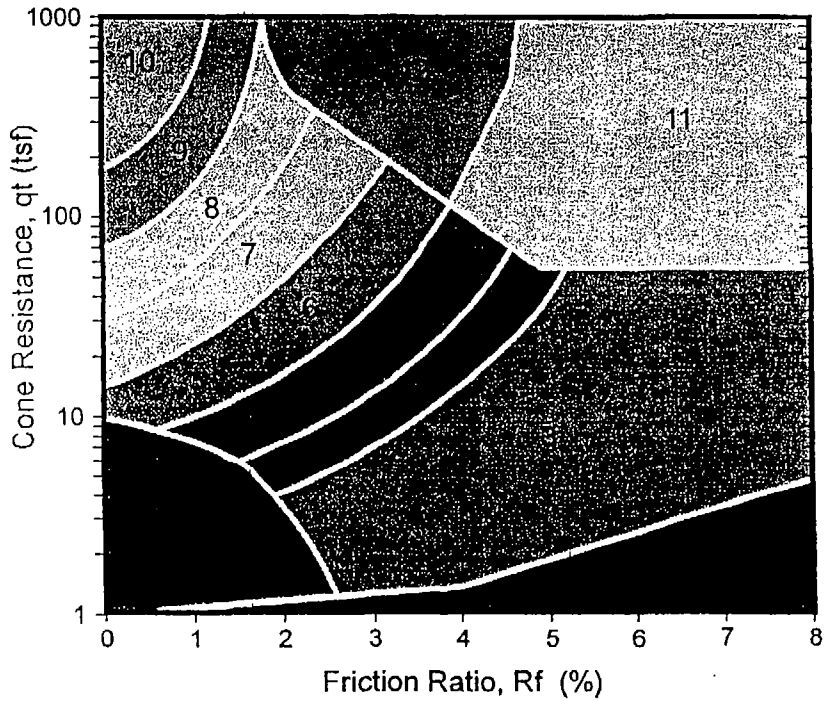


PACCAR 03926

KEHOE TESTING & ENGINEERING

CPT Classification Chart

(after Robertson and Campanella, 1988)



Zone	q_t / N	Soil Behavior Type	UCSCS
1	2	sensitive fine grained	OL-OH
2	1	organic material	Pt-OH
3	1	clay	CH
4	1.5	silty clay to clay	CL-CH
5	2	clayey silt to silty clay	ML-CL
6	2.5	sandy silt to clayey silt	MH-ML
7	3	silty sand to sandy silt	SM-ML
8	4	sand to silty sand	SP-SM
9	5	sand	SP
10	6	gravelly sand to sand	SW-SP
11	1	very stiff fine grained *	CL-MH
12	2	sand to clayey sand *	SP-SC

* overconsolidated or cemented

Sample Symbols

- Sample recovery
- No sample recovery
- Sample retained
- Sample retained and selected for laboratory analysis

Water Level Symbols

- First encountered groundwater level
- Potentiometric groundwater level

Photoionization Device (PID) Readings

Locations Monitored

- BZ - Breathing zone
- A - Top of auger
- C - Drill cuttings
- S - Sample

Reported in parts per million (ppmv).

ND = non-detect.

All contacts are approximate.

Typical Well Graphic Symbols

- Blank casing in concrete
- Blank casing in cement-bentonite grout
- Blank casing in bentonite
- Blank casing in filter sand
- Slotted casing in filter sand
- Native soil or slough

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS				SYMBOLS	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVEL		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVEL WITH FINES		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SAND		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SAND WITH FINES		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE-GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILT and CLAY	LOW LIQUID LIMIT [2]		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		HIGH LIQUID LIMIT [2]		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

Notes:
1. For a complete description of the Unified Soil Classification System, see "Geotechnical Branch Training Manual Nos. 4, 5, and 6" published in 1986 by the Bureau of Reclamation, Geotechnical Branch, Division of Research and Laboratory Services, Engineering and Research Center, Denver, Colorado.
2. Liquid limit is defined as that moisture content, expressed as a percentage of the dry mass of soil, at which the soil first shows a small but definite shear strength as the moisture is reduced.

Report: HC4+WELL-KEY; File: PACCARTO.GPJ; 9/6/00

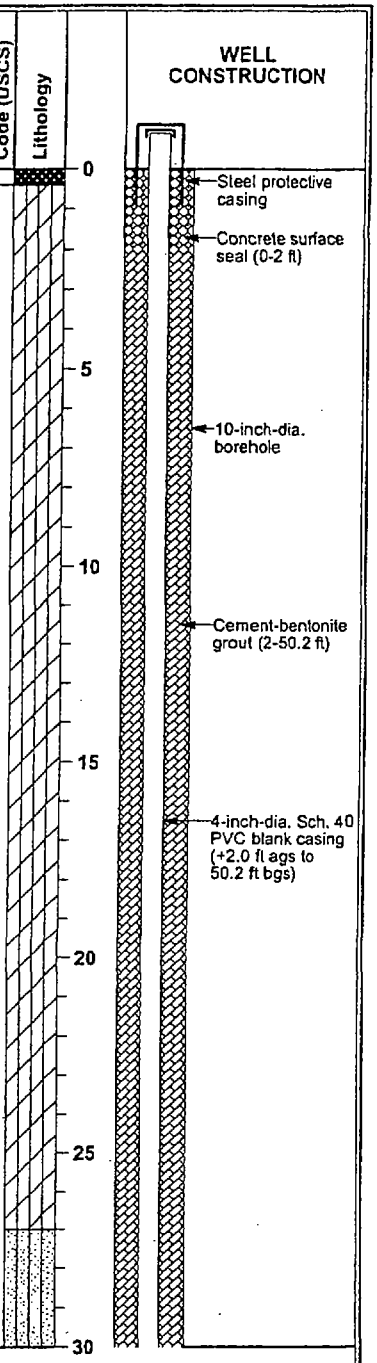
Project: PACCAR
Torrance, California

Project Number: 6905

Key to Log of Boring

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0					Asphalt cap (4 inches)	
					Very dark grayish brown (2.5Y 3/2), clayey SILT, uniform, low plasticity, moist, stiff, no odor, no discoloration	ML
5	S	HCB-5-5'	7 7 8	0 / 175		
					Becomes olive brown (2.5Y 4/4), very stiff	
10	S	HCB-5-10'	7 9 9	0 / 18		
					Becomes olive (5Y 4/4), sugary texture	
15	S	HCB-5-15'	7 12 12	0 / 35		
					Becomes olive (5Y 4/3), micaceous, moist	
20	S	HCB-5-20'	9 12 14	0 / 14		
					Becomes very stiff to hard	
25	S	HCB-5-25'	12 19 14	0 / 20		
					Pale olive (5Y 6/3), silty fine SAND, uniform, well-sorted, well-rounded grains, moist, medium dense, no odor, no discoloration	SM
30	S	HCB-5-30'	10 14 17	0 / 4		



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/25/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 57.5 feet bgs on 8/31/00)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

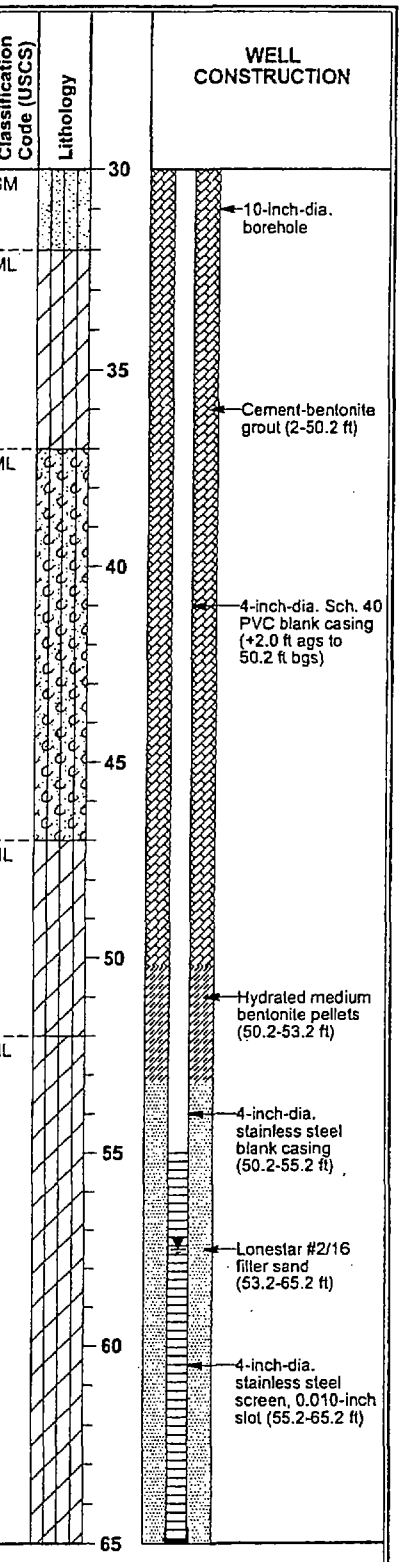
Project Number: 6905

Log of Boring HCB-5 / MW-5

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Pale olive (5Y 6/3), silty fine SAND, uniform, well-sorted, well-rounded grains, moist, medium dense, no odor, no discoloration (continued)	SM
					Olive brown (2.5Y 4/4), clayey SILT, uniform, micaceous, moist, very stiff, no odor, no discoloration	ML
35	S	HCB-5-35'	12 13 17	0 / 7.5		
					Olive (5Y 5/4), fine sandy SILT, shell fragments throughout, moist, very stiff, no odor, no discoloration	ML
40	S	HCB-5-40'	13 12 14	0 / 1.1	← Layer of shells, semi-consolidated	
					← Sugary texture	
45	S	HCB-5-45'	13 12 14	0 / 0		
					Olive gray (5Y 5/2), clayey SILT, sugary texture, no plasticity, red inclusions, micaceous, moist, very stiff, no odor, no discoloration	ML
50	S	HCB-5-50'	13 14 17	0 / NA		
					Olive (5Y 5/3), clayey SILT, uniform, slight plasticity, micaceous, moist, very stiff, no odor, no discoloration	ML
55	S	HCB-5-55'	10 12 14	0 / 10		
60	S	HCB-5-60'	7 18 14	0 / 4		
					← Becomes olive brown (2.5Y 4/4), wet	
65	S	HCB-5-65'	16 14 11	0 / 1.4	**Boring terminated at 65.0 feet bgs.**	



Report: HC4+WELL; File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

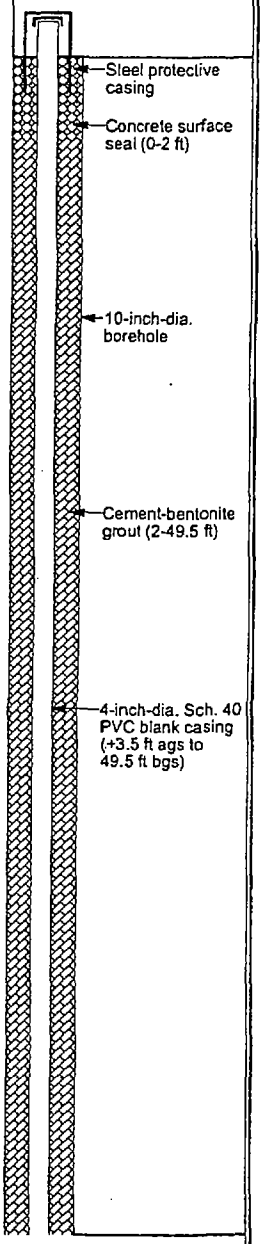
Project Number: 6905

Log of Boring HCB-5 / MW-5

Sheet 2 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0					Asphalt cap (4 inches)	
					Light olive brown (2.5Y 5/4), fine sandy SILT, uniform, moist, stiff, no odor, no discoloration	ML
5	S	HCB-6-5'	6 7 9	0 / 0		
					Becomes very stiff	
10	S	HCB-6-10'	7 10 14	0 / 2.8		
					Becomes olive (5Y 5/3), micaceous	
15	S	HCB-6-15'	10 12 16	0 / 1.5		
					Becomes olive brown (2.5Y 4/4), hard	
20	S	HCB-6-20'	23 20 20	0 / 1.5		
					Becomes light olive brown (2.5Y 5/4)	
25	S	HCB-6-25'	15 20 22	0 / 2.4		
					Becomes olive brown (2.5Y 4/4), very stiff	
30	S	HCB-6-30'	12 15 17	0 / 3.2		



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/25/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 57.6 feet bgs on 8/31/00)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

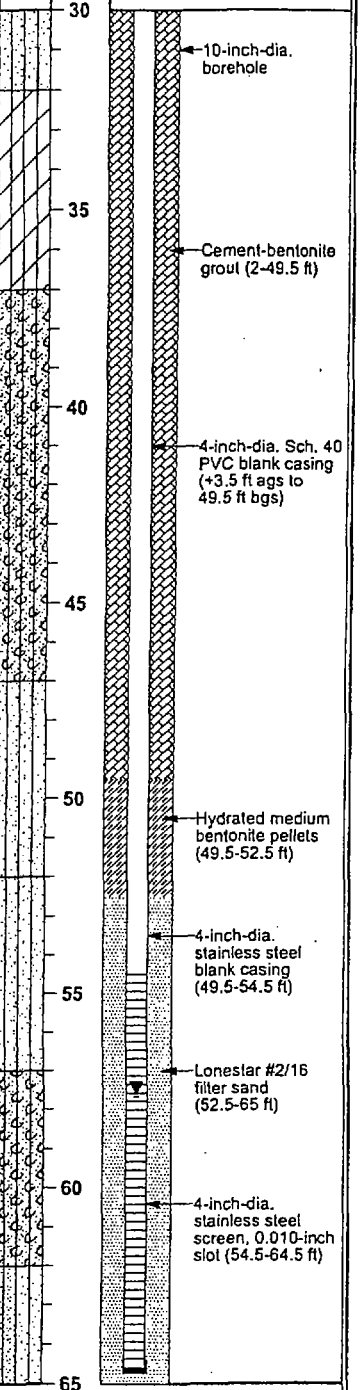
Project Number: 6905

Log of Boring HCB-6 / MW-6

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Olive brown (2.5Y 4/4), fine sandy SILT, uniform, micaceous, moist, very stiff, no odor, no discoloration (continued)	ML
					Olive brown (2.5Y 4/4), clayey SILT, uniform, slight plasticity, micaceous, moist, very stiff to hard, no odor, no discoloration	ML
35	S	HCB-6-35'	17 15 20	0 / 1.5		
					Light olive brown (2.5Y 5/4), silty fine SAND, well-sorted, well-rounded grains, shell fragments to 1/8 inch, moist, medium dense, no odor, no discoloration	SM
40	S	HCB-6-40'	10 12 12	0 / 0		
					Becomes olive (5Y 5/4)	
45	S	HCB-6-45'	7 12 14	0 / 198		
					Olive gray (5Y 5/2), sandy SILT, sugary texture, red inclusions, micaceous, moist, very stiff, no odor, no discoloration	ML
50	S	HCB-6-50'	7 8 19	0 / 2.1		
					Olive (5Y 5/3), sandy SILT, uniform, red streaking throughout, micaceous, moist, very stiff, no odor, no discoloration	ML
55	S	HCB-6-55'	8 8 10	0 / 12.5		
					Light olive brown (2.5Y 5/4), silty fine SAND, uniform, small shell fragments, micaceous, saturated, medium dense, no odor, no discoloration	SM
60	S	HCB-6-60'	12 11 12	0 / 0		
					Light olive brown (2.5Y 5/4), silty fine SAND, lenses of sandy silt and red striations through (similar to bedding planes), saturated, medium dense, no odor, no discoloration	SM
65	S	HCB-6-65'	7 10 12	0 / 0	**Boring terminated at 65.0 feet bgs.**	



Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-6 / MW-6

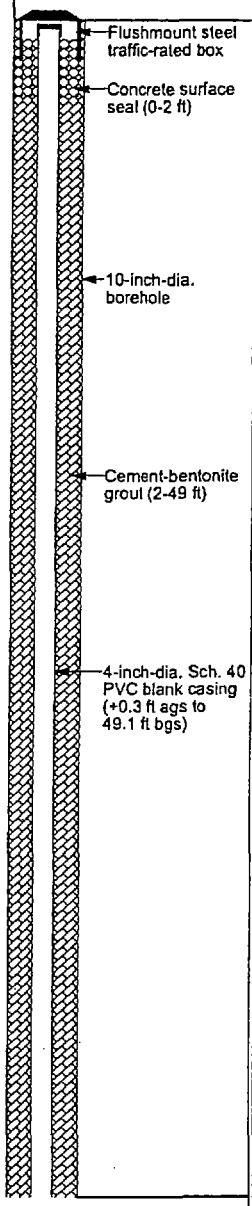
Sheet 2 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0				0 / 0	Concrete (8 to 10 inches) over wet pea gravel (2 inches)	
					Olive brown (2.5Y 4/4), silty CLAY, uniform, plastic, moist, stiff, no odor, no discoloration	CL/CH
5	S	HCB-7-5'	6 7 9	0 / 0		
					Olive (5Y 4/3), clayey SILT, uniform, slight plasticity, some organics, micaceous, moist, stiff, no odor, no discoloration	ML/OL
10	S	HCB-7-10'	5 8 9	0 / 0		
					Olive (5Y 4/3), sandy SILT, angular rock fragments to 1/8 inch diameter, some organics, micaceous, moist, very stiff, no odor, no discoloration	ML
15	S	HCB-7-15'	8 13 14	0 / 0		
					Becomes hard	
20	S	HCB-7-20'	15 20 27	0 / 0		
					Black (2.5Y 2/0), sandy SILT, lithology difficult to distinguish due to probable contamination, moist, hard, heavy hydrocarbon odor and discoloration	ML
25	S	HCB-7-25'	12 20 23	0 / 2.5		
					Very dark gray (2.5Y 3/0), silty CLAY, uniform, plastic, moist, very stiff, hydrocarbon odor and discoloration	CL/CH
30	S	HCB-7-30'	8 9 10	0 / 5.3		

Lithology

WELL CONSTRUCTION



NOTES:

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2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/24/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 55.9 feet bgs on 8/31/00)

Report: HC4+WELL File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

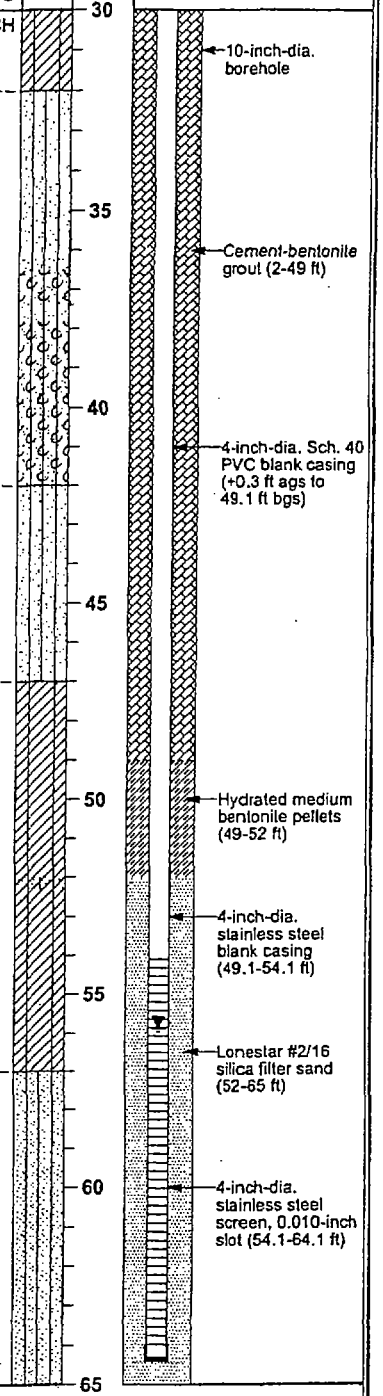
Project Number: 6905

Log of Boring HCB-7 / MW-7

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Blows per 6 inches	Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Very dark gray (2.5Y 3/0), silty CLAY, uniform, plastic, moist, very stiff, hydrocarbon odor and discoloration (continued)	CL/CH
					Black (2.5Y 2/0), sandy SILT, lithology difficult to distinguish due to probable contamination, moist, hard, heavy hydrocarbon odor and discoloration	ML
35	S	HCB-7-35'	11 20 21	0 / 4.8		
					Shell layer; chunks of consolidated shells	
					Becomes very stiff, with shell fragments throughout	
40	S	HCB-7-40'	20 15 16	0 / 2.1		
					Olive (5Y 4/4), sandy SILT, uniform, micaceous, moist, stiff, no odor, no discoloration	ML
45	S	HCB-7-45'	7 7 8	0 / 2.4		
					Olive gray (5Y 5/2), silty CLAY, low plasticity, red clay inclusions, micaceous, very moist, no odor, no discoloration	CI
50	S	HCB-7-50'	11 10 11	0 / 0		
					Silty sand lenses	
					Becomes olive (5Y 5/3), hard	
55	S	HCB-7-55'	18 23 18	0 / 4.1		
					Olive brown (2.5Y 4/4), silty SAND, uniform, well-sorted, well-rounded grains, biotite mica, wet, medium dense, slight solvent odor, no discoloration	SM
60	S	HCB-7-60'	6 8 10	0 / 5.8		
65	S	HCB-7-65'	7 7 11	0 / 5.1	**Boring terminated at 65.0 feet bgs.**	



Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-7 / MW-7

Sheet 2 of 2

HARTCROWSER

Appendix B

APPENDIX B
SAMPLING PLAN

PACCAR 03936

Sampling Plan

Former Trico Facility
1206 @. 196th Street, Torrance, CA
Supplemental Site Investigation, April 2004

Borings BL-21 through BL-27 will be advanced using a limited access drilling rig on April 7 and 8, 2004. Soil samples will be collected at 5-foot intervals, through the hollow-stem augers, using a California-modified split-spoon sampler lined with 2-inch diameter by 6-inch long brass or stainless-steel sleeves. Borings, sample intervals, and chemical analyses are summarized in the table below.

Upon collection, sample sleeves will be monitored for organic vapor content using a photoionization detector (PID). Sample sleeves containing soil exhibiting elevated PID readings will be subsampled using EnCore samplers (3 per sample depth). If PID readings are within background range, subsamples will be collected from the bottom-most sleeve. Upon collection, the EnCore samplers will be capped, placed in individual self-sealing aluminum envelopes (provided by EnCore), labeled, recorded on a chain-of-custody document, and placed in cold storage pending delivery to a state-certified laboratory for chemical analysis.

Boring No.	Location/Logic	Sample Interval	Chemicals of Concern	Analytical Method
BL-21, BL-22, BL-23, BL-24	Building A - Former Pump Mfg - Data Gap	5-foot	VOCs	5035/8260B
BL-25	SE Corner of Property, near former Clarifier Data Gap	5-foot	VOCs	5035/8260B
BL-26 & BL-27	North property easement - Data Gap	5-foot	VOCs	5035/8260B

Appendix C

APPENDIX C
EN CORE PROCEDURES / FORMS / RWQCB LETTER

EPA 5035 – Sampling / Handling Procedures

Samples are collected using an En Core® (En Novative Technologies) sampling device ("T-Handle") and En Core samplers.

For soil samples obtained from acetate sleeves (collected by Geoprobe):

1. Cut the acetate sleeve with a pre-cleaned stainless steel PVC-pipe cutter at the desired soil sampling interval; and
2. Immediately collect soil samples from the open ends of the acetate sleeves using the "T-Handle" and 5-gram En Core samplers.

For soil samples obtained using a hand-auger:

1. Hand-auger to the desired soil sampling interval; and
2. Push the 5-gram En Core sampler directly into the soil contained within the auger.

Each En Core sample is collected in triplicate. Following sample collection:

1. The En Core samples are sealed on both ends, labeled, and placed into their dedicated En Core foil zip-loc bags;
2. The En Core bags are then labeled, sealed with a custody seal, and transferred into larger zip loc bags (which contains all three replicates per soil sample) and placed in an ice-chilled cooler;
3. At the end of each sampling day, the coolers are transported to the analytical laboratory under strict chain-of-custody protocols; and
4. American Analytics analyzes the samples within 48 hours from the time of collection.

Laboratory Equipment

Analysis is performed in a closed-system auto-sampler capable of providing mechanical stirring and heating of the sample during the purge process.

This form can be used for reporting analyses of volatile organic compounds, semi-volatile, petroleum hydrocarbons, PCBs, pesticides, herbicides, and other organics.

Page 1 of 3: Analytical Result

A. Header Information

1. After "Project No:", enter the client's project number (from cover page 1). This number is required on every page of the report.

2. After "METHOD", enter the analytical method used. (e.g., EPA 8260, or EPA method 8021).

3. After "REPORTING UNIT", enter the appropriate reporting unit. The units ug/L for water samples and ug/Kg for soil samples are recommended for volatile analyses. The units mg/L and mg/Kg are recommended for TPH/semi-volatile analyses.

4. After "DATE ANALYZED", enter the date on which the sample is analyzed.

5. After "DATE EXTRACTED", enter the date on which the sample is extracted with solvent. If no solvent is used (e.g., purge and trap without organic solvent extraction), enter "N/A" (Not Applicable).

6. After "LAB SAMPLE I.D.", enter the I.D. number the laboratory assigned to each sample.

7. After "CLIENT SAMPLE I.D.", enter the I.D. number the client used when the sample was collected.

8. After "EXTRACTION SOLVENT", enter the type of solvent used for extraction before purge and trap or injection into instrument.

9. After "EXTRACTION METHOD", enter EPA Method used for extraction. (e.g., EPA 3550). For VOC sample which is extracted with methanol, enter the method used. (e.g., EPA 5030 for EPA 8021, EPA 8260 for the GC/MS methods.)

10. After "DILUTION FACTOR", enter the dilution factor for each sample. If a sample is not diluted (e.g., direct purge and trap of water sample), enter "1" as dilution factor.

11. If more than one page is needed, complete the header information for all samples analyzed on the subsequent pages. The method blank does not need to be repeated on each subsequent page. If more than one method blank is analyzed, report each method blank with the samples to which it applies for validation purposes. The column widths may he changed to put analysis results for more samples on each page.

B. Analytical Results

1. Under "COMPOUND", list each analyte which the samples were tested for. List the analytes (alphabetical order or elution order is recommended). EPA Methods analyzed in series (e.g., EPA 8015 (modified) may be listed on the same results page. For hydrocarbons which cannot be positively identified as a specific product, indicate the type of hydrocarbons detected (e.g., hydrocarbons in the range of C23-C32).

2. Under "CRDL" (Contract Required Detection limit), list the detection limit used for reporting each analyte. If sample has to be diluted for one constituent, do not automatically adjust the CRDL for other constituents by the same dilution factor, and report results of other constituents under the CRDL without dilution.

3. In each column for the method blank and the samples, report all analytes detected above the CRDL. Do not subtract blank or adjust sample results for blank contamination. Any analyte not detected above the CRDL should be reported as "<CRDL value" (whatever the CRDL value is after taking into account dilution factor, e.g., <0.5). Samples must show the final results calculated with dilution factor. (e.g., sample after 10 times dilution gives analysis result of 10 ppb. Then the final result reported for this sample should be 100 ppb.) The CRDL for some analytes may be at or near the laboratory method detection limit. However, do not flag any data as estimated or below certain confidence levels.

4. If the list of analytes continues on to the second page, repeat the analytical method, reporting unit, laboratory sample identification and client sample identification on the second page in the spaces provided. Continue with the reporting of detection limits and analytical results as on the first page.

5. If samples are analyzed under different dilution factor, use separate column to report. Report a result as "non-detected" (ND) only for samples analyzed <u>without</u> dilution.

6. For SURROGATE, list surrogate compounds added to blank and samples. Report Spike Concentration (SPK CONC) of added surrogate, Acceptable % Limits (ACP%) for each surrogate, and % Recovery (%RC) of each surrogate in blank and each sample. If the analyte list lasts only one page, place the surrogate box at the bottom of the first page. If the analyte list continues on to other pages, place the surrogate box at the bottom of the last page.

<u>Page 2 of 3: QA/QC Report</u>

I. Calibration Standard

A. Initial Calibration (IC)

1. The initial calibration format provided or direct printouts from analytical instruments can be

used as an alternative of the IC format.

2. No matter which IC format (RWQCB form or direct instrument printouts) is used, provide the following data:

Date performed:	Date the IC was performed most recently and applied in calculation of the sample results.
Standard Supply Source:	Source of the standard used in IC.
Instrument I.D.:	ID or name of the instrument used for IC, QA/QC, and sample analyses.
Analytical Method:	EPA method used in IC, all QA/QC, and sample analyses.
Date of source:	Date when standard for IC was received or prepared in-house.
Lot Number:	The lot number of the standard used for IC.
Compound:	Name of compounds in IC.
Detector:	Detector used for analysis of the listed compound.
RT:	Retention time of listed compound.
Mass/Conc:	Injected mass or concentration of the listed compound. List all five masses or concentrations. Unit must be given (e.g., ng for mass and ug/L for concentration). If concentration is used, volume of standard injected must be reported.
Area:	Area count of each concentration level.
RF:	Response factor of each concentration level.
RF(ave):	Average RF.
SD(n-1):	Standard deviation with (n-1) degree of freedom.
%RSD:	% relative standard deviation.

B. Continuing Calibration (CC) (Daily Mid-point Calibration)

1. The CC format provided or direct printouts from analytical instruments can be used as an alternative of the CC format.

2. No matter which CC format (RWQCB form or direct instrument printouts) is used, provide the following data:

Compound:	Names of compounds in CC.
Detector:	Same as above in (A) Initial Calibration.
RT:	Same as above in (A) Initial Calibration.
Mass/Conc:	Same as above in (A) Initial Calibration.
Area:	Same as above in (A) Initial Calibration.
RF:	Same as above in (A) Initial Calibration.
%DIFF:	Percent difference between RF of continuing calibration and RF(ave) of initial calibration.
ACP RGE	

%DIFF: Acceptable range for %DIFF.

Page 3 of 3: QA/QC Report (Continued)

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

1. Under "DATE PERFORMED", enter the date that MS/MSD is performed, which must be the same as the batch of samples that are analyzed.

2. Under "BATCH #", enter laboratory batch number associated with samples.

3. Under "LAB SAMPLE I.D.", enter the name or number of laboratory sample which is used for MS/MSD analyses.

4. Under "Analytical Method", enter the EPA Method and circle a reporting unit. The EPA Method and reporting unit must be the same as that reported for the samples.

5. Circle one to indicate unit.

Provide the following data in the table:

Analyte:	The spiking analytes in sample.
Sample Result:	The original sample result associated with the spiking analytes.
Spike Conc:	MS concentration of added analyte in sample.
MS:	Result of MS.
%MS:	% recovery for MS.
Spike Conc (Dup):	MSD concentration of added analyte in sample.
MSD:	Result of MSD.
%MSD:	% recovery for MSD
RPD:	Relative percent difference between MS and MSD
MS/MSD LIMIT:	Acceptance % limit for MS
RPD LIMIT:	acceptance limit for RPD

If the original sample results are "<CRDL" without dilution, enter "0" for sample result on this MS/MSD table.

III. Laboratory Control Sample (LCS)

1. After "DATE PERFORMED", enter the date LCS is analyzed, which must be the same as the batch of samples that are analyzed.

2. After "ANALYTICAL METHOD", enter EPA method used in LCS, which must be the same method used in QA/QC and sample analyses.

3. After "STANDARD SUPPLY SOURCE", enter source of the LCS standard.

4. After "DATE OF SOURCE", enter date when standard is used for LCS is received or prepared in-house.

5. After "INSTRUMENT I.D.", enter lab instrument I.D. for the LCS run.

6. After "LOT NUMBER", enter the lot number of the LCS standard.

7. After "LAB LCS I.D.", enter the laboratory ID number assigned to LCS.

8. Circle one to indicate unit.

Provide the following data in the table:

Analyte:	The LCS analyte.
Spike Conc:	Concentration of LCS analyte.
Result:	Result for each analyte.
%Recovery:	% recovery for LCS.
ACP %REC LIMIT:	Acceptance limit for LCS % recovery.

IV. General Reporting Requirements

1. Chromatograms, raw data on analysis, copy from logbooks, extraction logs, and other laboratory data relating to sample results are not required with report, but must be submitted upon request.

2. Workplan or monitoring program for a specific project may require additional site-specific analytes and/or conditions.

3. Use a separate sheet for more information for date of standard supply source, date of preparation, instrument I.D., lot number, etc.

V. General Requirements For Organics

The following requirements are not a replacement or substitution of the EPA method requirements which must be followed by the laboratories. These requirements serve as a specific emphasis or clarification to LARWQCB's QA/QC objectives in addition to EPA method requirements. Laboratories must comply with these requirements.

Sample Condition

The criteria for acceptable sample condition is determined by the method(s) which the samples will be analyzed. The laboratory should try to resolve any sample condition problems before the samples are accepted for analysis. If the problems are beyond being resolved, the samples should be rejected and resampling should be requested.

Subcontracted Samples

Samples subcontracted to another laboratory, which must be certified by ELAP, must also conform to the requirements of this program and results must be submitted by the subcontracted laboratory on this report format.

Target Compounds

The target compounds should be those specified in the method or as required by the LARWQCB.

Volatile organic compounds (VOCs) analysis must include the following compounds as target compounds at a minimum. If other compounds are also expected or detected in samples, they must be included in the target list. GC/MS method (e.g., EPA 8260) and ELCD (electronic conductivity detector)/PID (photoionization detector) in series method (e.g., EPA 8021) must include all target compounds. ELCD method (e.g. EPA 8021) must include all target halogenated compounds. PID method (e.g., 8021) must include all target aromatics.

Halogenated compounds

Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane (1,1-DCA)
1,2-Dichloroethane (1,2-DCA)
1,1-Dichloroethylene (1,1-DCE)
cis-1,2-Dichloroethene (c-1,2-DCE)
trans-1,2-Dichloroethene (t-1,2-DCE)
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Methylene chloride (Dichloromethane)
1,1,2,2-Tetrachloroethane
1,1,1,2-Tetrachloroethane
Tetrachloroethene (PCE)
1,1,1-Trichloroethane (1,1,1-TCA)
1,1,2-Trichloroethane (1,1,2-TCA)
Trichloroethene (TCE)
Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
Vinyl chloride (VC)

Aromatics

Benzene
Ethyl benzene
Toluene
m,p-Xylenes
o-Xylene

CRDL

The detection limits should be those required by the LARWQCB, as specified in the assessment workplan/monitoring program or as specified in EPA methods used. Lower detection limits than these specified below can be required based on site-specific needs. If CRDL cannot be achieved due to matrix problem, laboratory must provide a written explanation and propose a reasonable CRDL under the situation.

CRDLs for VOCs must be 1 ug/L or 2 ug/Kg except for the following compounds. This low CRDLs are applicable to the samples with no detectable VOCs or low levels of VOCs. If sample needs to be diluted due to high contamination, see section concerning dilution in sample analysis requirements.

CRDL of 0.5 ug/L or 1.0 ug/Kg is required for these following compounds because MCLs or Action limits (AL) for these compounds are low as shown.

	MCL	AL
Benzene	1.0	
Carbon tetrachloride	0.5	
1,2-Dichloroethane	0.5	
1,3-Dichloropropene	0.5	
Dichlorodifluoromethane(Freon 12)		1.0
Vinyl chloride	0.5	

CRDL of 100 ug/L or 100 ug/Kg will be acceptable for following compounds.

Acetone
Acrolein
Acrylonitrile
Methyl Ethyl Ketone (2-butanone)
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)

CRDL shall be 100-500 ug/L or 500-5000 ug/Kg for petroleum hydrocarbons depending on type of hydrocarbons to be tested (e.g., gasoline, jet fuel, diesel, etc.).

Analysis Methods

1. For VOCs, if the samples have never been analyzed before (the type of compounds present is unknown), at least 10 % of samples from each site (or a minimum one sample if total samples are less than 10) should be analyzed using GC/MS method (e.g., EPA 8260B) first. The rest of samples can then be analyzed with non-GC/MS methods (e.g., EPA 8021) if desired.

2. Laboratory must report the number of tentative identified compounds and estimated results if possible for those samples analyzed by GC/MS method as required by Item 1 above.

3. If the GC/MS method analysis shows the presence of compounds that cannot or will not be detected by non-GC/MS method, then all the samples shall be analyzed by GC/MS method.

4. If the compounds present are known from previous analyses, the samples can be analyzed by either non-GC/MS or GC/MS method.

5. If the PID/ELCD in series method (e.g., EPA 8021) is used, the method must be reported as such (e.g., not reported as 8010/8020).

6. For other organic analyses (e.g., pesticides), confirmation must also be done by GC/MS. If GC/MS cannot confirm the compound due to low level, use second column for confirmation.

Initial Calibration

1. Initial 5 point calibration must be performed for all compounds in the above target list and any expected, required, or detected compound.

2. %RSD must be calculated for each compound and must not exceed 20%.

3. For GC/MS analyses, the %RSD of the Calibration Check Compounds (CCC) must be less than or equal to 30%. The CCC are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene, and vinyl chloride.

4. Average Calibration Factor (CF) or Average Response Factor (RF(ave)) must be used for calculation of all sample results and QA/QC analyses.

5. In terms of practicality during compliance with the above requirements, for GC analyses, the percent relative standard deviation (%RSD) must not exceed 20% for 80% of all analytes calibrated. The %RSD for any analyte must not exceed 35%. However the %RSD for all compounds detected in samples must not exceed 20%.

Continuing Calibration (CC) (Daily mid-point calibration)

1. In terms of practicality during compliance with the requirement, for GC analyses, the percent difference (%DIFF) from initial calibration must not exceed 15% for 80% of all analytes calibrated. The compounds that meet the 15% difference requirement must be the same compounds which meet the %RSD in the initial calibration. The %DIFF for any analyte calibrated must not exceed 35%. However, the %DIFF for all compounds detected

in samples must not exceed 15%.

2. For GC/MS analyses, the %DIFF of CCC must not exceed 20%.

Surrogate

The surrogate(s) used and surrogate recovery acceptance limits should be determined by the EPA Method guidelines. If there are no EPA guidelines, the laboratory can use the appropriate surrogate(s) and the recovery limits should be in a range determined by in-house laboratory control charts. Data for the control charts must be submitted upon request.

Method Blank

The method blank should not show any concentration more than five times (5X) the CRDL for any single target compound. If exceeded, the laboratory should investigate the source of contamination and take corrective actions before proceeding with further sample analysis. Any disclaimer statement such as the following example concerning the blank and interpretation of result will not be acceptable and should not be included in report.

"Results should not be considered reliable unless the sample result exceeds five times (5X) the CRDL or ten times (10X) the blank concentration."

MS/MSD

MS/MSD analyses should be performed for every project (for each site) at a minimum rate of one per 20 samples or per batch, whichever is more often. The spiking analytes used for the MS/MSD analyses should be those required by the LARWQCB. When the spiking analytes are not specified by LARQWCB, the ones specified in EPA methods should be used. If EPA method does not specify, then appropriate ones chosen by the laboratory can be used. If MS/MSD is not required by the method used, MS/MSD may not be required unless specified in workplan.

For VOCs analysis, the following compounds must be included in the spiking for MS/MSD.

Halogenated Compounds:	**Aromatics:**
Chloroform	Benzene
1,1-Dichloroethane (1,1-DCA)	Toluene
1,2-Dichloroethane	MTBE
1,1-Dichloroethylene (1,1-DCE)	
Tetrachloroethylene (PCE)	
Trichloroethylene (TCE)	

The acceptance limit should agree with EPA guidelines for each method used. If there are no EPA guidelines, it may be determined in a range by in-house laboratory control charts. Data for the control charts must be submitted upon request. Trace levels of analyte may be used in

MS/MSD calculations even if reported as non-detected on the report form.

Laboratory Control Sample (LCS)

The LCS analysis must be performed each day that samples are analyzed. The LCS must be obtained from a different supplier or a different lot from the calibration standards. If prepared in-house, it must be prepared from a stock solution different from calibration standards. The LCS should be analyzed in reagent water. It does not have to be matrix matched like the MS/MSD analyses.

The spiking analytes used for the LCS analyses should be those required in the target compound list or those required by the LARWQCB.

The acceptance limits for the LCS for volatile organic analyses are 80%-120%. LCS acceptance limits for other organic analyses should be determined by EPA Method guidelines, or in-house laboratory control charts if there are no EPA Method guidelines for this compound. Data for the control charts must be submitted upon request.

Sample Analysis

All samples must be analyzed to comply with CRDL requirements above. If sample dilution is required due to high concentrations of some compounds, the initial run must be used to calculate the results for constituents that are not affected by the high concentrations so that CRDL can be met for these compounds.

If concentrations of compounds present in samples are known to be high (outside the calibration range) from previous analyses or confirmative information, the samples can be directly diluted and then analyzed. Low CRDL will not be applicable for these samples if they are found to be high. If not, an undiluted sample must be reanalyzed to meet the CRDL requirements.

ACKNOWLEDGEMENTS

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PACCAR 03950

Project No:_____ (RWQCB LabForm10A;Ver6/00)

ANALYTICAL RESULT FOR ORGANICS

METHOD: REPORTING UNIT:

DATE ANALYZED						
DATE EXTRACTED						
LAB SAMPLE I.D.						
CLIENT SAMPLE I.D.						
EXTRACTION SOLVENT						
EXTRACTION METHOD						
DILUTION FACTOR						
COMPOUND	CRDL					

SURROGATE	SPK CONC.	ACP%	%RC	%RC	%RC	%RC	%RC

Project No:_____ (RWQCB LabForm10A;Ver6/00)

QA/QC REPORT

I. Calibration Standard

(A). Initial Calibration

DATE PERFORMED: _____ ANALYTICAL METHOD:

STANDARD SUPPLY SOURCE:_____ DATE OF SOURCE:

INSTRUMENT I.D.:_____ LOT NUMBER:

COMPOUND	DETECTOR	RT	MASS/CONC UNIT	AREA	RF	RF_{ave}	SD_{n-1}	%RSD
Compound 1			1st conc					
			2nd conc					
			3rd conc					
			4th conc					
			5th conc					
Compound 2								
Compound k			1st conc					
			2nd conc					
			3rd conc					
			4th conc					
			5th conc					

(B). Continuing Calibration (Mid-Point)

COMPOUND	DETECTOR	RT	MASS/CONC UNIT	AREA	RF	%DIFF	ACP RGE %DIFF
Compound 1							
Compound 2							
Compound k							

Project No:_____ (RWQCB LabForm10A;Ver6/00)

QA/QC REPORT (Continued)

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED:_____ ANALYTICAL METHOD:

BATCH #:_____

LAB SAMPLE I.D.:_____ UNIT: (Circle one) µg/kg µg/l

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: _____ ANALYTICAL METHOD:

STANDARD SUPPLY SOURCE:_____ DATE OF SOURCE:

INSTRUMENT I.D.:_____ LOT NUMBER:

LAB LCS I.D.: _____ UNIT: (Circle one) µg/kg µg/l

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT

PACCAR 03953

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Printed on a minimum 10% recycled post-consumer fiber

Revised Work Plan for Supplemental Site Investigation

Former Trico Facility
1206 West 196th Street
Torrance, California

HARTCROWSER
Delivering smarter solutions

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June 12, 2002

Project No. 6999.06

www.hartcrowser.com

HARTCROWSER
Delivering smarter solutions

Letter of Transmittal

Anchorage

To: California Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Date: June 12, 2002

Job No.: 6999.06

Boston

Attn: Pinaki Guya-Niyogi

Re: Revised Work Plan for Supplemental Site Investigation

We are sending the following items:

Denver

Date	Copies	Description
June 12, 2002	1 original	Revised Work Plan for Supplemental Site Investigation, Former Trico Facility, 1206 West 196th Street, Torrance, California

Edmonds

These are transmitted:

Eureka

☐ **For your information** ☐ **For action specified below** ☒ **For review and comment** ☐ **For your use** ☐ **As requested**

Remarks

Jersey City

Please contact us if you have questions.

Juneau

Long Beach

By: Alistair Callender

Alistaire Callender, Ph.D.

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Revised Work Plan for Supplemental Site Investigation

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June 12, 2002

6999.06

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PACCAR 03958

1.0 INTRODUCTION

The purpose of this Work Plan is to identify how and why additional work proposed for the former Trico Site in Torrance California (Site) will be performed. Hart Crowser submitted a Work Plan, on behalf of PACCAR, for supplemental site investigation to the California Regional Water Quality Control Board - Los Angeles Region (RWQCB) on February 14, 2002. The RWQCB reviewed the Work Plan and requested additional information in a letter dated April 12, 2002. Hart Crowser has prepared this revised Work Plan to provide the requested information.

This revised Work Plan was developed based on previous work done at the former Site and the discussions between PACCAR, Hart Crowser and the RWQCB at their January 25, 2002 meeting and the RWQCB letter dated April 12, 2002. The purpose of this Work Plan is to develop additional data on soil and groundwater conditions at the Site, with the goal of obtaining RWQCB closure for the soil. Specifically the work will include:

- Assessment of the extent of chlorinated hydrocarbons in the Site soil;
- Identification of the depth variation of the first occurring groundwater;
- Additional groundwater sampling at the Site; and
- Development of data to support a request for Site soil closure.

2.0 SITE BACKGROUND

Hart Crowser conducted a Phase I Environmental Site Assessment (ESA) of the Site in 1995. The purpose of the ESA was to develop environmental information on the current Site conditions and past practices.

Hart Crowser's assessment of the Site included the following:

- A Review of historical and recent aerial photographs.

- A Review of the then current environmental regulatory agency published database lists to evaluate whether the Site or neighboring properties are identified on the lists.

PACCAR 03959

- Contacting the California RWQCB (Region 4), the Los Angeles County Department of Public Works - Leaking Underground Storage Tank Records and Building Department, the California Department of Toxic Substances Control (Region 4), the State of California Division of Oil and Gas, and Southern California Edison for file and regulatory information on the Site and neighboring properties.

- Interview with Mr. Jim Dunavant (TRICO employee) and Mr. Leo Cahill (former TRICO employee) about former Site use and practices.

- A Review of environmental assessments previously conducted at the Site.

- Conducting a site reconnaissance of the Site and a walk/drive-by of surrounding properties.

- Obtaining selected building material samples from the Site for analysis of asbestos content.

- Conducting on-site qualitative analysis of selected painted surfaces for lead.

This following information is taken from the 1995 Hart Crowser Phase I ESA report:

The Site is located in an industrial area in an unincorporated section of the County of Los Angeles, California (see Site Location Map, Figure 1). Land use within one mile of the Site is industrial, commercial, and residential. The Site is approximately 100,000 square feet (sf) in size. It is developed with three buildings (Building A, B, and C) and is paved with asphalt concrete or concrete slab-on-grade with no exposed soil. The three buildings are single story and of different heights. The buildings are described as follows:

Bldg	Size	Construction	Former Use
A	20,000 sf	Concrete Block	Pump manufacturing
B	14,000 sf	Concrete Block with Metal Siding	Warehouse/Shipping
C	4,000 sf	Concrete Block	Warehouse

The Site address is 1206 West 196th Street. The Site is an "L"-shaped extension of the property located at 19706 South Normandie Avenue. The property at 19706 S. Normandie Avenue is currently owned and occupied by Mighty Enterprises, Incorporated, a finished products import company. Mighty Enterprises is currently using Buildings B and C for storage of imported patio furniture products. Both properties (1206 W. 196th Street and 19706 S. Normandie Avenue) were formerly occupied by TRICO. TRICO sold the western section of the property (19706 S. Normandie Avenue) to Mighty Enterprises in 1989.

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Land use in the vicinity of the Site is composed primarily of industrial facilities. American Polystyrene Company (formerly Amoco Chemical Company) is located to the north; Mighty Enterprises (an importer) and a lumber yard are located to the west; Redman Manufacturing (a heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track is in place between the Site and the R.R. Donnelly facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 200 feet and 600 feet northwest of the Site, respectively. The Site is located adjacent to the western boundary of the Del Amo Superfund site and approximately 1,500 feet northeast of the "Montrose Chemical Superfund site."

Details of the procedures used in the Phase I ESA, and the findings summarized herein are provided in Appendix A.

In March 1999, the United States Environmental Protection Agency (USEPA) issued a Record of Decision (ROD) for management of groundwater at the combined Montrose Chemical and Del Amo Superfund sites (USEPA, 1999). The ROD includes groundwater extraction, treatment, and aquifer re-injection. The ROD identifies facilities near 196th Street on the western border of the Del Amo Superfund site, which have handled chlorinated solvents and have soils with significant concentrations of trichloroethylene (TCE) and perchloroethylene (PCE), as potential contributors to the groundwater contamination at the Del Amo Superfund site.

Prior Site Investigations

In addition to the Phase I ESA (1995) and Phase II (2000) performed by Hart Crowser, a number of other studies have been performed at the site. A brief summary of these studies is provided in this section.

SCS Engineers:

In 1987 SCS Engineers installed soil borings and monitoring wells (MW-1 and MW-2) at the Site. Monitoring wells MW-1 and MW-2 were screened across two groundwater-bearing units [Upper Bellflower Aquitard (UBF, also referred to as the Water Table Zone) and Middle Bellflower B Sand/Middle Bell Flower Aquitard Mud (MBF)]. Groundwater occurs at an approximate depth of 65 to 70 feet bgs in the UBF water bearing unit and 80 to 115 feet bgs in the MBF water-bearing unit.

H_2O Science:

In 1995, H_2O Science collected soil samples and installed monitoring wells, MW-3 and MW-4 at the Site. Monitoring wells MW-3 and MW-4 are screened in the first water-bearing unit. In 1995, H_2O Science collected soil samples and installed additional monitoring wells (MW-3 and

MW-4; see Appendix A) at the Site. The analytical results from these investigations indicated that TCE and PCE are present in the soil and groundwater at the Site. The maximum concentrations of TCE (8.8 milligram per kilogram [mg/kg]) and PCE (3.5 mg/kg) were detected (at the 68' below ground surface (bgs) level) in a soil boring that was converted to well MW-3. This well is located approximately 40 feet east/northeast of four former ASTs. A groundwater sample was collected at this location approximately 60 feet bgs. TCE and PCE were detected in this groundwater sample at concentrations of 30,000 micrograms per liter (µg/l) and 15,000 µg/l, respectively.

Hargis and Associates

A 1990 report by Hargis and Associates contained groundwater analytical data from a 1990 sampling event for MW-2 only.

Dames and Moore

A report by Dames and Moore contained groundwater data for the three Del Amo Superfund site-monitoring wells located on the northeastern portion of the Site. Groundwater samples collected in the last quarter of 1993 did not have detectable concentrations of solvents. We could not confirm the depth of the wells to determine if they are completed in the same aquifer as the three wells that were installed by SCS Engineers.

Weston

The Weston report was prepared under contract from the USEPA. Weston evaluated the Site's eligibility for cleanup under CERCLA and for potential listing on the NPL. The Weston report incorporated data obtained during their site reconnaissance as well as data from the 1987 SCS report. Based on the findings in the Weston report, the TRICO facility was not included on the NPL.

Hart Crowser:

As indicated at the beginning of this Work Plan, Hart Crowser conducted a Phase I Environmental Site Assessment (ESA) of the Site in 1995.

Hart Crowser also sampled the four monitoring wells at the Site (MW-1 through MW-4) in 1998 (Hart Crowser 1998b). PCE, TCE, and cis-1,2-DCE were detected in all the monitoring wells. In 1998, Hart Crowser abandoned monitoring wells MW-1 and MW-2.

In addition, Hart Crowser conducted Phase II field investigations at the Site in April and August 2000 to further characterize subsurface soil and groundwater conditions at the Site. The

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subsurface characterization was accomplished using Cone Penetrometer Testing (CPT) and hollow stem auger drilling (Appendix A contains the CPT survey report, and the boring logs from that investigation). The April and August 2000 work was designed to:

- Characterize and better understand the Site lithology and hydrogeology; and
- Identify potential onsite source areas, onsite groundwater quality, and the quality of groundwater coming onto the Site from the north and west.

Three monitoring wells (MW-5, MW-6, and MW-7), screened in the first water-bearing unit, were installed at the Site in August 2000. Several VOCs, including PCE and TCE, were detected in the groundwater samples collected at the Site. The results of the Phase II investigations were documented in a Phase II report. **Figures and Tables from this report, including boring logs and cross sections, are also presented in Appendix A.** Conclusions from the Draft Phase II report indicated that VOCs were detected in soil and groundwater samples from the Site. VOC concentrations in soil were confined to the east/southeastern and northwestern portion of the Site. Figures 3a, 3b, 3c, 4a, 4b, and 4c provide isoconcentration soil contours at selected depths for PCE and TCE. These soil contours are based on data from the Draft Hart Crowser November 2000 Phase II report.

The soil investigations at the Site have not definitively identified source areas for the solvents identified in groundwater at the Site. However, soil borings have not been drilled at all the exact locations where potential solvent sources were present.

Contaminant Sources

As a result of previous work at the site by Hart Crowser and others (see the Prior Site Investigations section), a number of potential on-site and off-site sources have been identified and partially characterized at the former TRICO facility.

On-Site Sources

(See Figure 2, Appendix A)

ASTs (Central). Former Site occupants utilized three aboveground storage tanks in the central portion of the Site to store solvents.

ASTs (Northwest). Former Site occupants appear to have utilized aboveground storage tanks in the northwestern portion of the Site. The former contents of these tanks are unknown.

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ASTs. Two ASTs south of building C were used for TCE.

Vehicle Maintenance Area. TRICO reportedly conducted vehicle maintenance activities north of Building C.

Paint Dip Tank. TRICO reportedly utilized a paint dip tank to coat finished parts. A drip area was located along the center portion of the north wall of Building A to contain dripping paint from painted parts.

Cesspool. B & W and TRICO utilized a cesspool on the east side of Building A. SCS conducted soil sampling around the cesspool and installed a groundwater monitoring well in the cesspool area. Soil and groundwater samples contained concentrations of chlorinated VOCs.

Clarifier (Central). SCS Engineers did not assess the clarifier located in the center of the Site near the vehicle and parts washing area in 1987. Boring BH-4 was installed in the general vicinity to assess the former steam cleaning area. However, the clarifier itself was not specifically assessed. Soil samples from boring BH-4 contained concentrations of chlorinated VOCs.

Clarifier (Southeast). The southeast clarifier was used to process a machine outflow stream prior to discharge to the storm drain.

Chemical Storage Area. TRICO stored chemicals (including toluene) in the southeast corner of the Site.

Off-Site Sources

(See Figure 3, Appendix A)

Lumber Storage and Treatment. A lumber storage and treatment operation exists on the west side of the Site. The facility has been in operation since 1972 or earlier. If lumber was treated on (or very near to) the Site in the past, it is possible that related treatment chemicals may have impacted soil beneath the Site.

Shell Synthetic Rubber Plant. From the early 1940s until the late 1960s, the Shell Synthetic Rubber Plant was located on the east-side adjacent property. A portion of this property is now on the NPL and CERCLIS list (the Del Amo Superfund site). The portion of the Shell property that has been designated a Superfund site is located approximately 2,500 feet southeast of the Site. The Shell plant utilized numerous ASTs, some within 50 feet of the Site. Although no detectable concentrations of target compounds were reported in groundwater samples

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collected from the three Superfund groundwater monitoring wells located on the eastern side of the Site, chlorinated VOC concentrations were detected in wells MW-1 and MW-2.

Boeing Aircraft (Formerly McDonnell Douglas). A McDonnell Douglas facility was formerly located 600 feet west and northwest and upgradient of the Site across Normandie Ave. Solvent-impacted soil and groundwater has been identified at the Douglas facility. This reported groundwater plume might pose a threat to the Site since it is up gradient.

Other Neighboring Industrial Facilities. American Polystyrene (formerly Amoco Chemical Company) located north of the Site maintained chemical-containing ASTs. DPW documents from the 1960s indicated solvents were used by Amoco. Additionally, Amoco used a cesspool for disposal of wastewater and maintained sumps. A paint manufacturer located 500 feet northwest of the Site formerly maintained solvent-containing USTs. Some of these USTs were abandoned in place. These two sites have apparently impacted the Site.

Agricultural Land Use. Historical data indicated the Site and neighboring properties were used for agriculture from the 1920s to the 1950s. The Site may have been impacted by previous pesticide application during the agricultural use. The pesticide, fungicide, and herbicide residues from farming on the Site have had at least 40 years to break down, be washed away, or diluted. It is likely that potential residues from the pesticides, fungicides, and herbicides (if present) are in very low concentrations due to age deterioration and dilution.

3.0 SCOPE OF WORK

The proposed scope of work for the Work Plan consists of the following tasks:

- Task 1 - Health and Safety Plan Modification;
- Task 2 - Underground Utility Search, Permitting and Notifications;
- Task 3 - Soil Sampling and Laboratory Analyses;
- Task 4 - Groundwater Sampling and Survey; and
- Task 5 - Site Investigation Report.

These tasks are described in more detail in the following sections:

Task 1 - Health and Safety Plan Modification

The existing Site Health and Safety Plan will be modified as needed for this field program. Hart Crowser personnel will conduct daily tailgate health and safety meetings. Hart Crowser site supervisor will notify PACCAR, subcontractors and the present site supervisor regarding safety issues, as needed.

Task 2 - Underground Utility Search, Permitting and Notifications

Hart Crowser will subcontract a private locating service to identify on-site underground lines and utilities. Hart Crowser will also contact Underground Service Alert for the demarcation of underground utilities outside the Site boundary at least 72 hours ahead of the proposed work. Hart Crowser will obtain the necessary permits for the installation of borings and temporary wells from the local agency (Los Angeles County Department of Public Health - Well Permits Division). PACCAR, the present site supervisor, and regulatory agencies will be notified prior to initiating the drilling program at the Site.

Task 3 - Soil Sampling and Laboratory Analyses

Up to seventeen (17) soil borings will be drilled in areas as shown on Figure 2 to a depth of sixty (60) feet or to first encountered water. The borings will be located in such a manner to assess and confirm the vertical and lateral extent of chlorinated hydrocarbon-impacted soil, and also to verify that selected areas not thought to be impacted by chlorinated hydrocarbons are in fact clean. Samples that will be analyzed by a specific analytical method are identified in Appendix B (Sample Location to Delineate Chlorinated Hydrocarbons in the former Trico Facilities).

Hart Crowser has assumed that all borings can be advanced with a Geoprobe/drill rig to total depth. If the Geoprobe cannot be used to advance the borings to total depth, the drill rig will switch over to the hollow stem auger method. Samples will be collected at 5-foot depth intervals. The proposed locations are (see Figure 2):

- Three (3) former ASTs located near the present central portion of the Site west of Building C (four proposed borings BL-05, BL-06, and BL-08);
- Four (4) former ASTs located along the present northwestern border of the Site (four proposed borings BL-01, BL-02, BL-03, and BL-04);
- Two (2) former TCE ASTs located south of Building C (two proposed borings BL-12 and BL-13);
- Former vehicle maintenance area (Boring BL-16);
- The former paint dip tank located along the northern wall of Building A in the southern portion of the Site (three proposed locations, BL-09, BL-10, and BL-11);
- The former cesspool (one proposed boring BL-15);
- The clarifier (Boring BL-7);
- The runoff sump (one proposed borings BL-14); and
- West of building A (BL-17).

The purpose of these borings is to be able to assess whether the condition of the soil is suitable for closure and whether these locations are sources of the solvents found in groundwater at the Site, or whether the solvents originate from upgradient off-site source(s).

Up to twelve (12) soil samples will be selected for analyses from each of the 60-foot borings. Soil lithology information will be recorded on field logs using the Unified Soil Classification System. The VOC samples will be collected using En Core samplers (collection method 5035) per RWQCB requirements (See Appendix C). The samples will be submitted to an on-site mobile laboratory or to a stationary laboratory under proper chain-of-custody protocols. Included in Appendix C is the revised standard form for reporting organics to the RWQCB. Organic vapor headspace readings will be taken from the second collected sample tube. The soil sample will be placed in new Ziploc plastic bag and allowed to equilibrate for at least a half-hour. Subsequently the headspace will be measured by using a Photo Ionization Detector suitable to detect chlorinated compounds.

As shown in Table 1 (Appendix B), total of seventy (70) soil samples will be analyzed by EPA Method No. 8260B for chlorinated hydrocarbons, a total of sixteen (16) samples by EPA 8270, a total of sixteen (16) samples by EPA 8080 for PCBs and pesticides, a total of eight (8) samples by EPA 418.1 for heavy hydrocarbons, and a total of eight (8) samples by EPA 6000/7000 for Title 22 Metals. State certified mobile and stationary laboratories will be used to analyze the samples. Laboratory results will be submitted in accordance with the RWQCB requirements.

Task 4 - Groundwater Sampling and Survey

Eight (8) borings will be converted to temporary wells (See Figure 2 for possible well locations MW-8 through MW-15). Depth to groundwater will be gauged in the existing monitoring wells (MW-3 through MW-7) as well as the eight new temporary monitoring wells.

For temporary wells, a stainless screen point will be placed within the identified groundwater. A 1/4-inch tube will be placed into the screen and a pump will be used to extract a groundwater sample. For the existing monitoring wells, after gauging, groundwater will be purged from the wells using a submersible pump. Disposable polyethylene bailers and polypropylene rope will be used to sample the wells. Please note that because the sample collection techniques are different for the permanent and temporary wells, the results may not be directly comparable.

Groundwater samples will be placed in 40 milliliter (ml) VOAs prepared by the analytical laboratory. The samples will be properly preserved and transported according to the accepted protocols for the constituents being analyzed.

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The temporary well locations will be abandoned by sealing the boring with a cement-bentonite slurry. The top six inches of the boring will be capped with concrete and the surface finished to generally match the existing ground surface. A licensed surveyor will survey the well and boring locations.

Investigation Derived Waste (IDW), consisting of soil, purge water and decontamination water, will be placed into 55-gallon 17H DOT drums, labeled and stored onsite pending laboratory analysis and disposal determination. Following receipt of laboratory analytical results and authorization from PACCAR, the IDW will be managed at an approved facility.

For quality assurance, up to ten percent of groundwater samples collected will be used for quality assurance/quality control (QA/QC) purposes. QA/QC samples will include duplicate groundwater samples, equipment rinse blanks, and trip blanks that will be collected and submitted to the laboratory. A trip blank sample will accompany each cooler transported to the analytical laboratory. Groundwater samples will be analyzed for VOCs using USEPA Method 8260B. Laboratory results will be submitted in accordance with the RWQCB requirements.

Task 5 - Site Investigation Report

Upon completion of the investigation, a site assessment report will be prepared documenting our findings. The report will include all boring logs, a site plan indicating soil boring locations, calculated groundwater gradient and flow direction, analytical laboratory data and QA/QC documentation, a tabular summary of analytical results, iso-concentration maps of impacted soil (as appropriate), and all necessary field documentation.

4.0 SCHEDULE

Soil sampling, temporary well installation, groundwater sampling, and the Site survey will take approximately two weeks. Analytical results for soil and groundwater samples collected during the field program should be available within ten days of submittal. Our report will be submitted in four (4) to six (6) weeks after obtaining the analytical results.

5.0 LIMITATIONS AND SIGNATURES

The Work Plan has been prepared for the exclusive use of PACCAR for submittal to the RWQCB as it pertains to the Site located at 1206 West 196th Street in Torrance, California. All work will be conducted under the direct supervision of a California Registered Geologist or Engineer and per RWQCB guidelines.

6.0 REFERENCES

United States Geological Survey, 1981. Topographic Map for the Torrance Quadrangle, 7.5-Minute Map.

SCS Engineers (SCS), 1987, Preliminary Draft Report for Additional Site Investigation at the Trico Industries Facility.

Hart Crowser, Inc., 1995. Preliminary Environmental Site Assessment at the Former Trico Industries, Inc., Facility 1206 West 196th Street, Torrance, California. Project No. 6756. April 4.

Dames and Moore, 1998, Final Groundwater Remedial Investigation Report, Del Amo Study Area, Volume I, May 15.

Hart Crowser, Inc., 1998a. Data Summary for Paccar, Inc., Torrance Facility. Project No. 6830. August 27.

Hart Crowser, Inc., 1998b. Draft Report of Groundwater Sampling, 1206 West 196th Street, Torrance, California. Project No. 6830. September 23.

Hart Crowser, Inc., 2000. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 6830. March.

Hart Crowser, Inc., 2000c. Draft Phase II Investigation Report. 1206 West 196th Street, Torrance, California. Project No. 6905. November.

USEPA, 1999. Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume I. March 1999.

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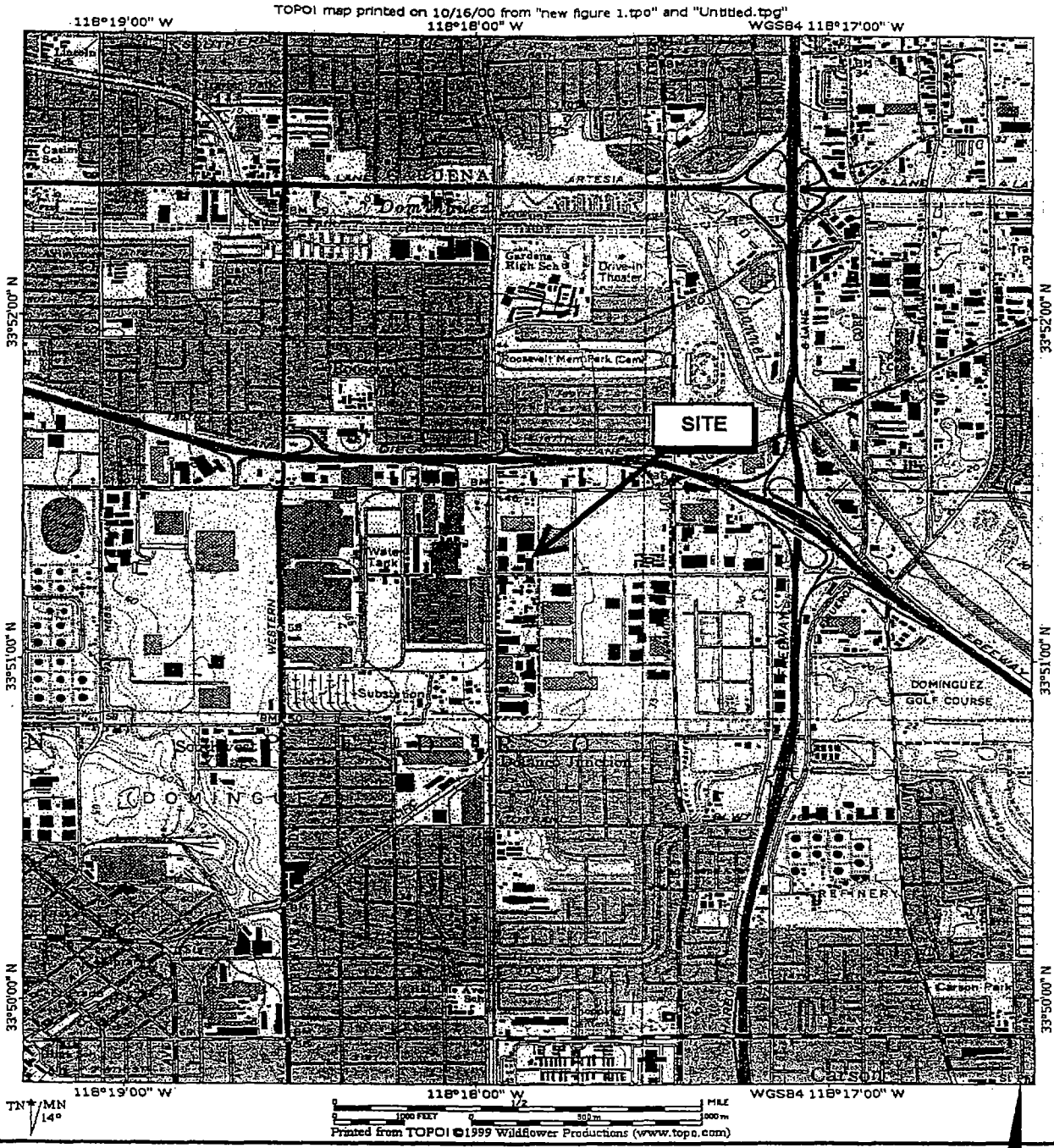
PACCAR 03969

Figures

FIGURES



Base Map from U.S.G.S. 7.5' series (topographic)
TORRANCE Quandrangle, 1964, Photorevised 1981

N

HARTCROWSER

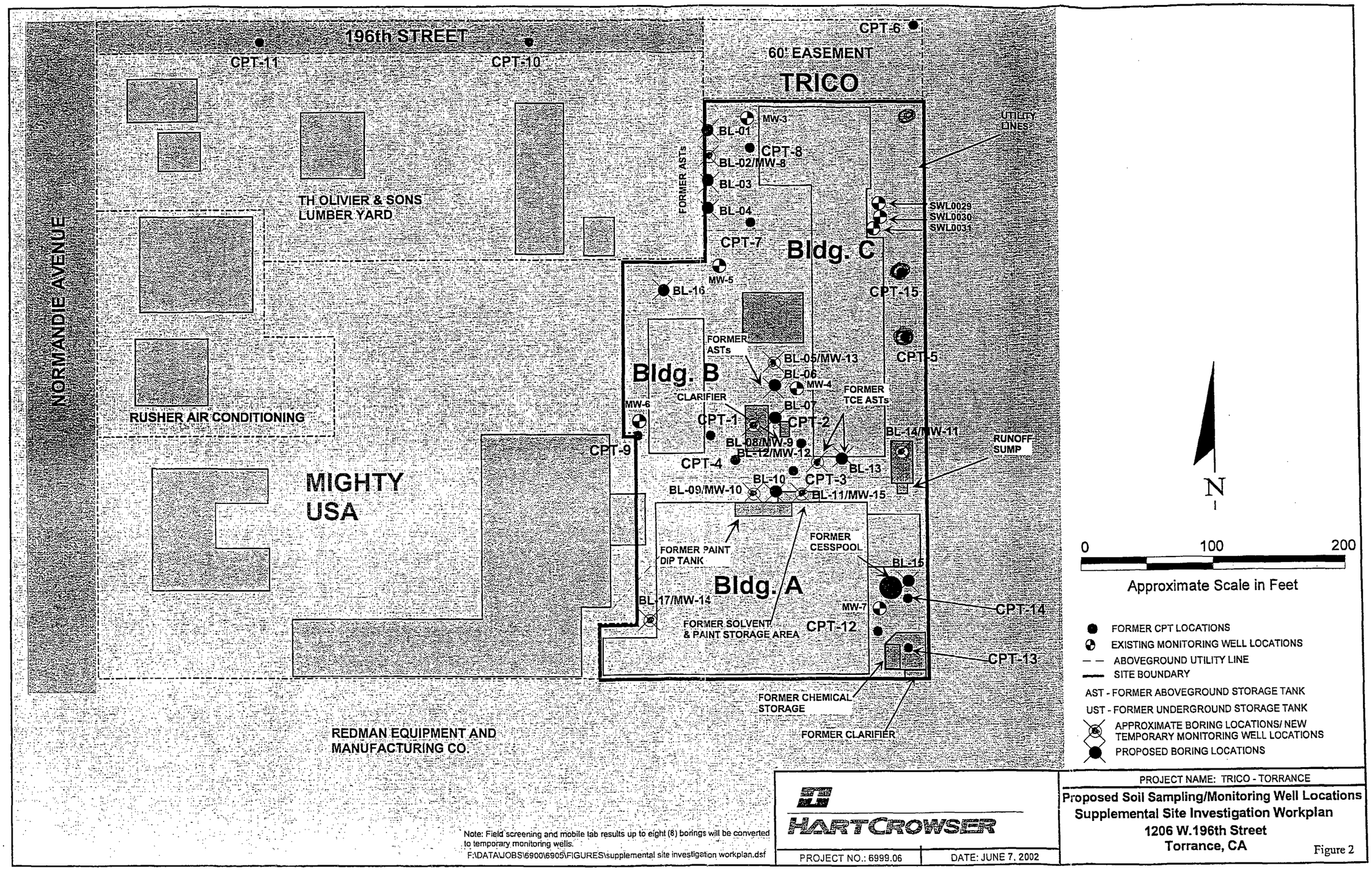
PROJECT NO.: 6999.06

PROJECT NAME: TRICO - TORRANCE

SITE LOCATION MAP
TRICO INDUSTRIES PROPERTY
TORRANCE, CALIFORNIA

FIGURE 1

PACCAR 03972



Note: Field screening and mobile lab results up to eight (8) borings will be converted to temporary monitoring wells.

F:\DATA\JOBS\6900\6905\FIGURES\supplemental site investigation workplan.dsf

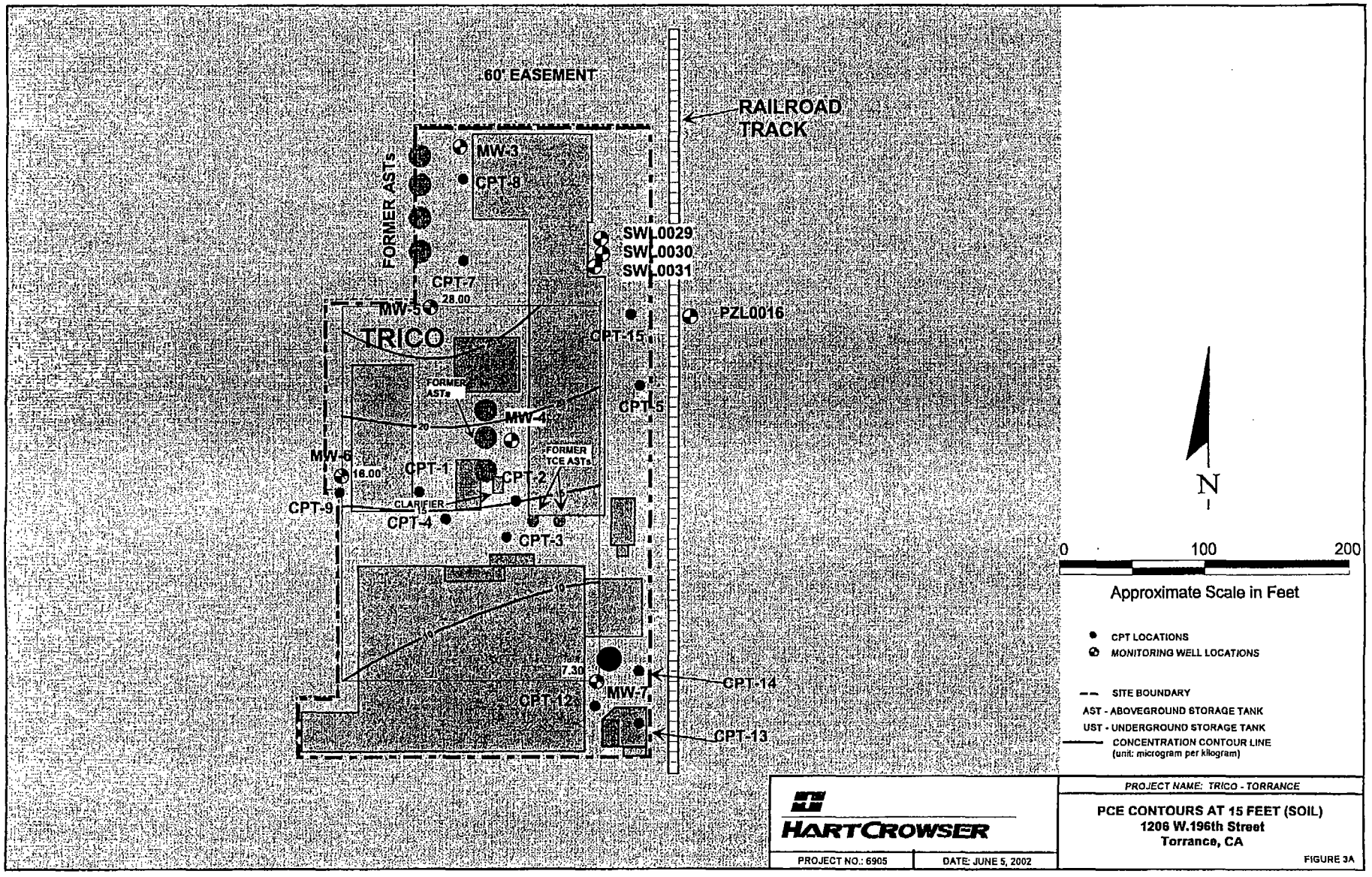
HARTCROWSER

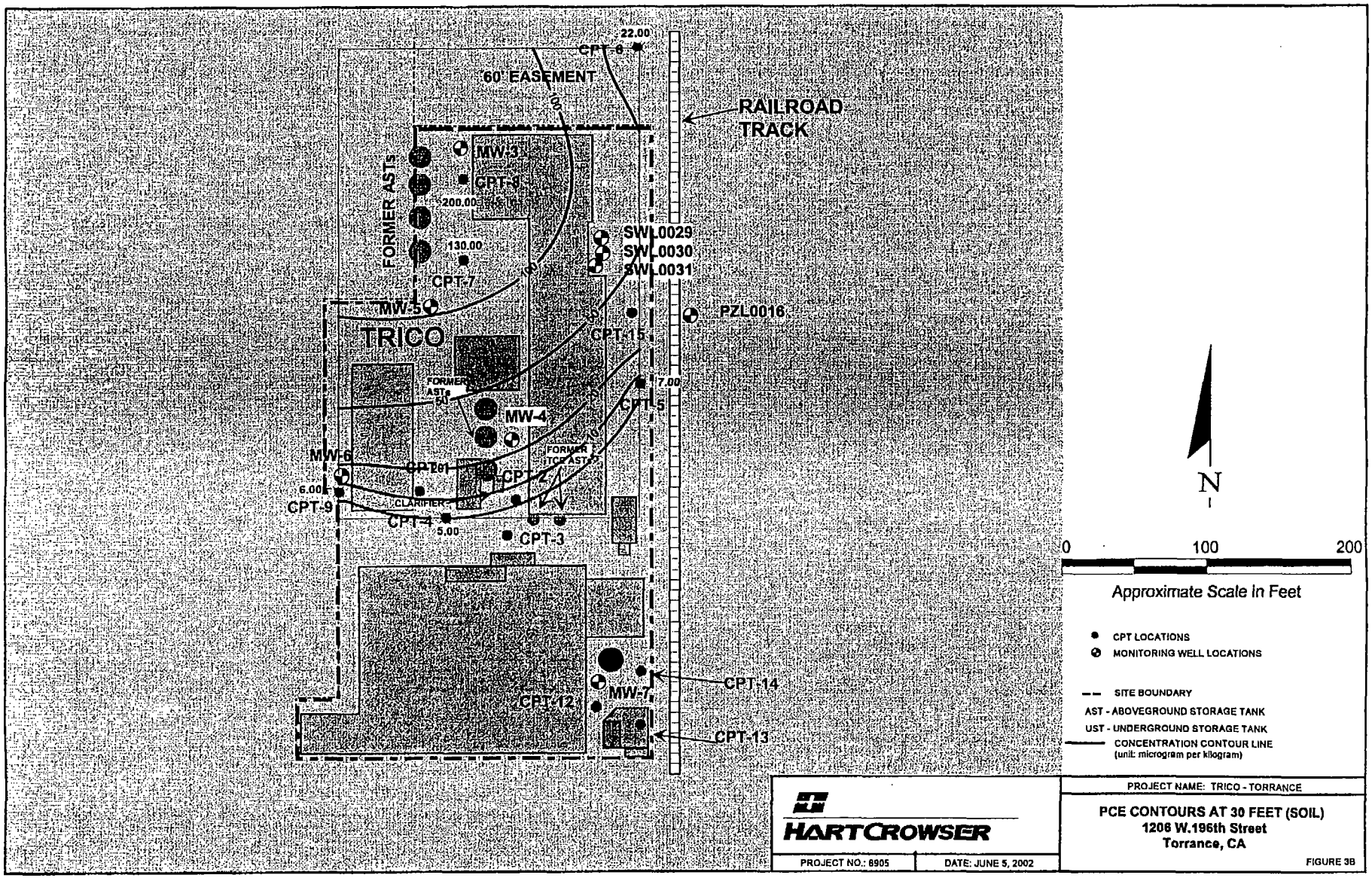
PROJECT NO.: 6999.06 | DATE: JUNE 7, 2002

PROJECT NAME: TRICO - TORRANCE

Proposed Soil Sampling/Monitoring Well Locations
Supplemental Site Investigation Workplan
1206 W.196th Street
Torrance, CA

Figure 2


60' EASEMENT
RAILROAD TRACK
FORMER ASTs
MW-3
CPT-8
SWL0029
SWL0030
SWL0031
CPT-7
28.00
MW-5
PZL0016
TRICO
CPT-15
FORMER ASTs
CPT-5
MW-4
20
MW-6
16.00
CPT-1
FORMER TCE ASTs
CPT-2
CPT-9
CLARIFIER
CPT-4
CPT-3
10
7.30
MW-7
CPT-14
CPT-12
CPT-13
N
0
100
200
Approximate Scale in Feet
CPT LOCATIONS
MONITORING WELL LOCATIONS
SITE BOUNDARY
AST - ABOVEGROUND STORAGE TANK
UST - UNDERGROUND STORAGE TANK
CONCENTRATION CONTOUR LINE
(unit: microgram per kilogram)
HARTCROWSER
PROJECT NO.: 6905
DATE: JUNE 5, 2002
PROJECT NAME: TRICO - TORRANCE
PCE CONTOURS AT 15 FEET (SOIL)
1206 W.196th Street
Torrance, CA
FIGURE 3A



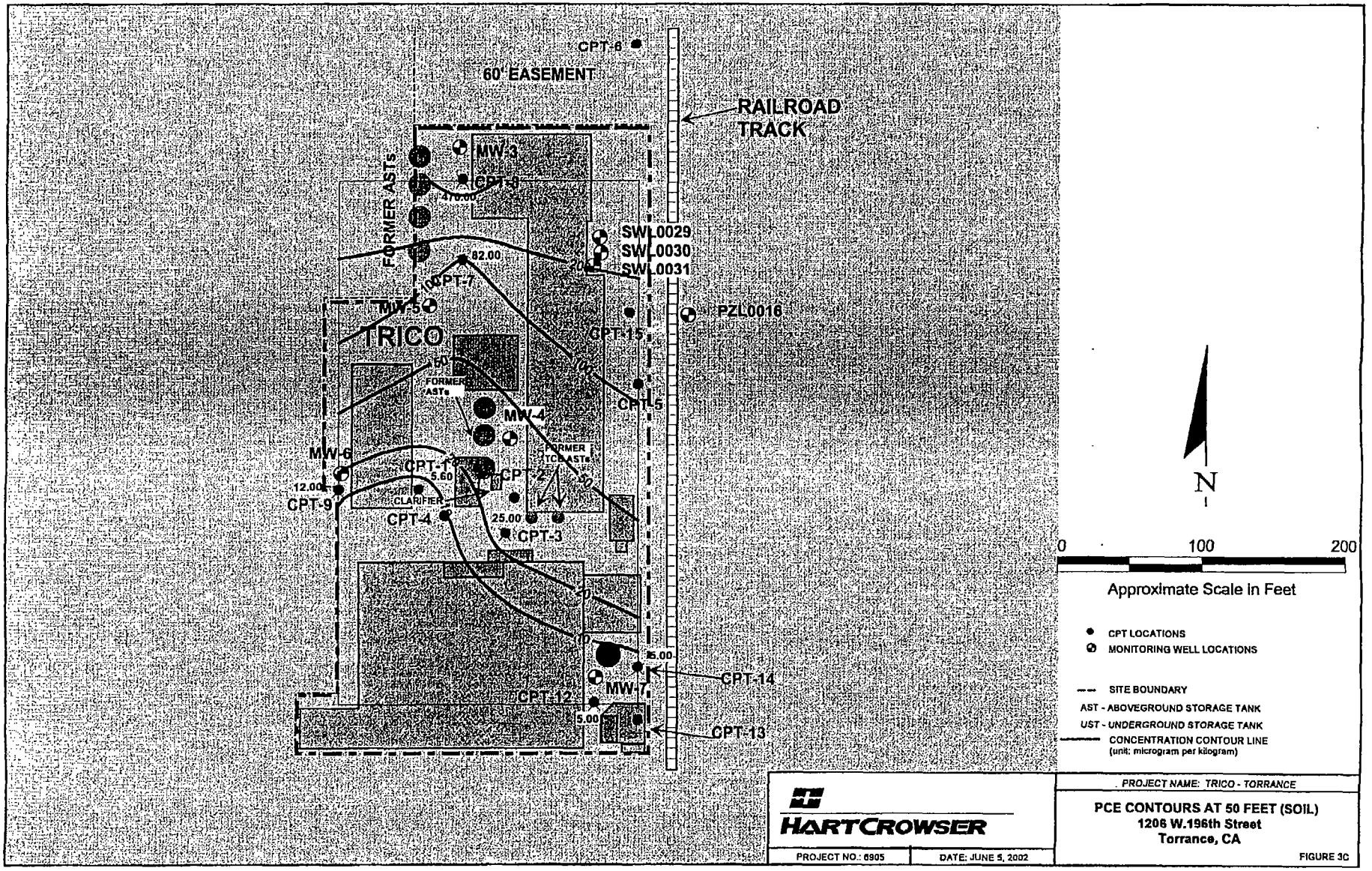
HARTCROWSER

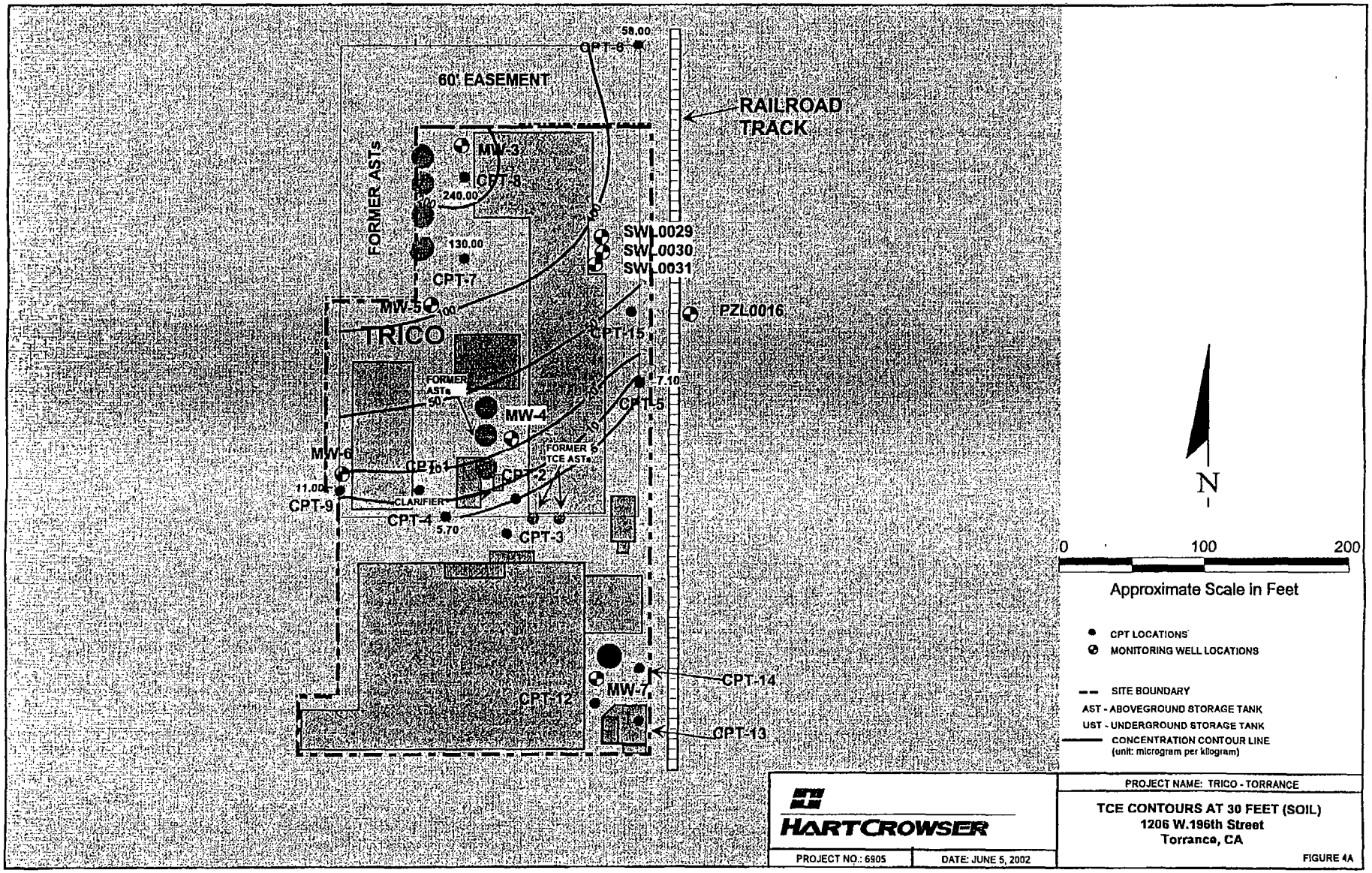
PROJECT NO.: 8905 | DATE: JUNE 5, 2002

PROJECT NAME: TRICO - TORRANCE

PCE CONTOURS AT 30 FEET (SOIL)
1206 W.196th Street
Torrance, CA

FIGURE 3B


CPT-6
60' EASEMENT
RAILROAD TRACK
MW-3
CPT-8
470.00
FORMER ASTs
SWL0029
SWL0030
SWL0031
82.00
CPT-7
MW-5
TRICO
PZL0016
CPT-15
FORMER ASTs
MW-4
CPT-5
FORMER TCE ASTs
MW-6
CPT-1
5.60
CPT-2
12.00
CPT-9
CLARIFIER
CPT-4
25.00
CPT-3
15.00
CPT-14
MW-7
CPT-12
15.00
CPT-13
N
0
100
200
Approximate Scale in Feet
CPT LOCATIONS
MONITORING WELL LOCATIONS
SITE BOUNDARY
AST - ABOVEGROUND STORAGE TANK
UST - UNDERGROUND STORAGE TANK
CONCENTRATION CONTOUR LINE
(unit: microgram per kilogram)
HARTCROWSER
PROJECT NO.: 6905
DATE: JUNE 5, 2002
PROJECT NAME: TRICO - TORRANCE
PCE CONTOURS AT 50 FEET (SOIL)
1206 W.196th Street
Torrance, CA
FIGURE 3C



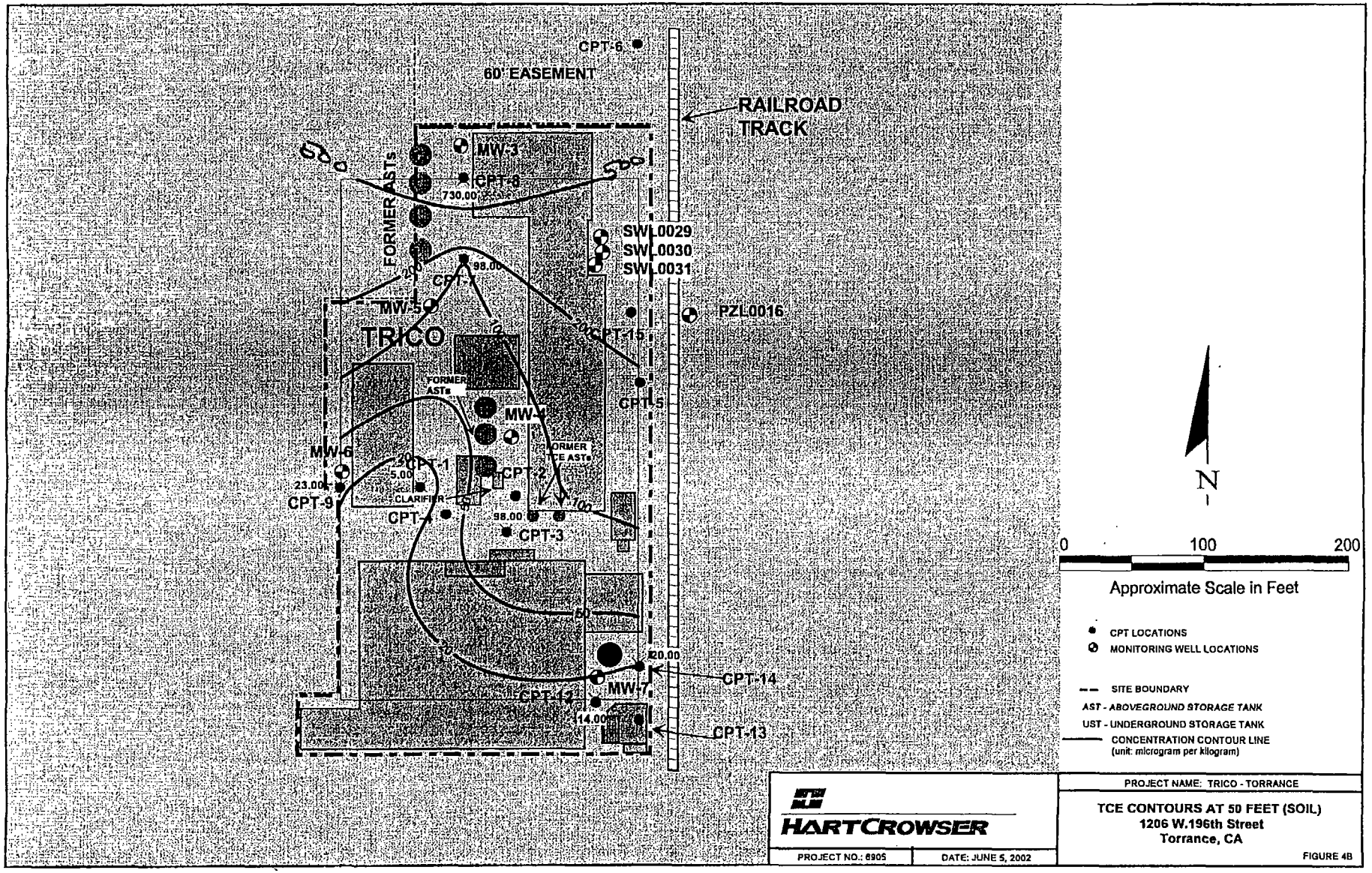
HARTCROWSER

PROJECT NO.: 6905 | DATE: JUNE 5, 2002

PROJECT NAME: TRICO - TORRANCE

TCE CONTOURS AT 30 FEET (SOIL)
1206 W.196th Street
Torrance, CA

FIGURE 4A



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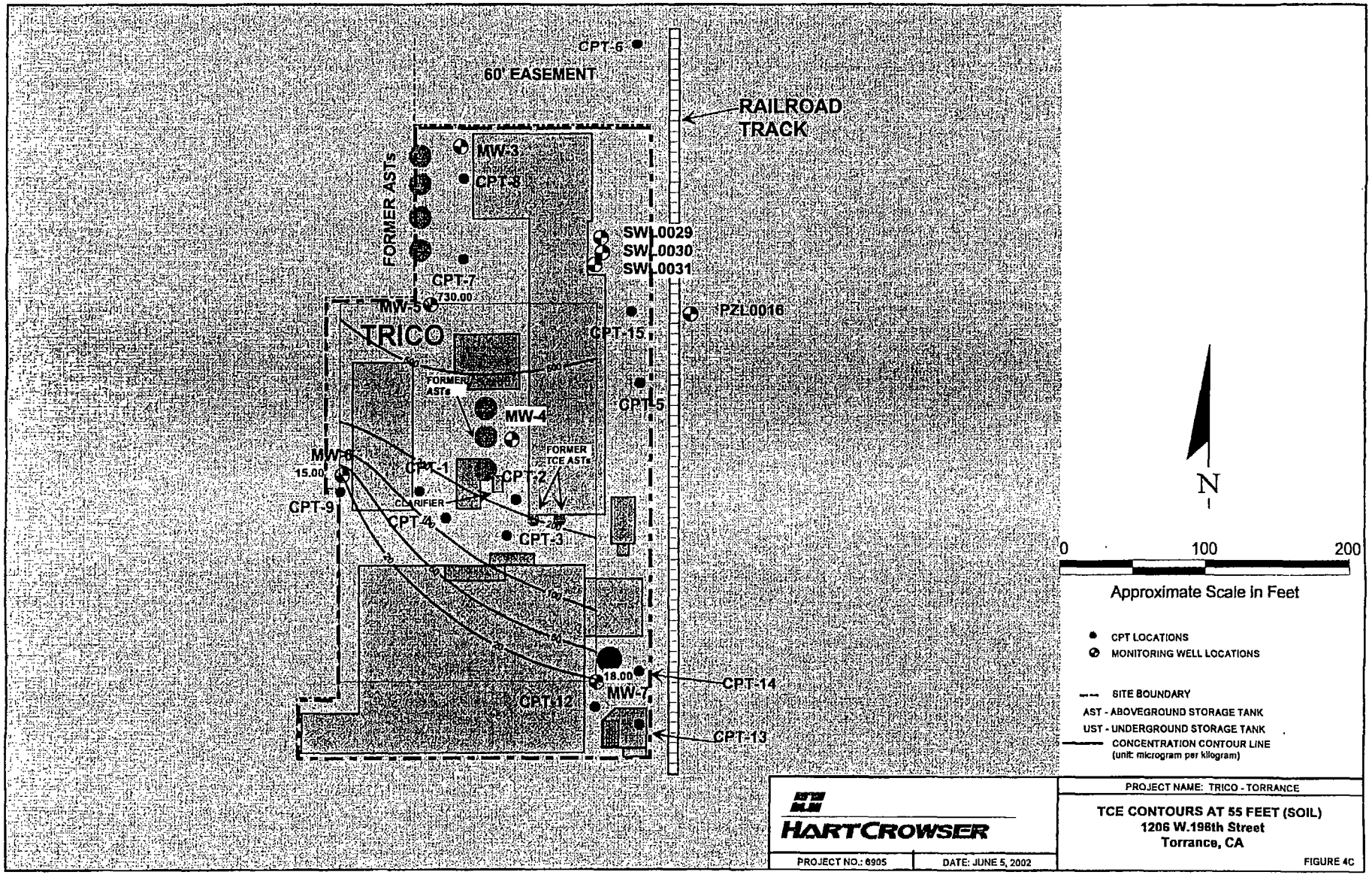


PACCAR 03979

Appendix A

APPENDIX A

HISTORICAL DATA

PHASE I ESA BACKGROUND DATA

HART CROWSER 1995

SITE GEOLOGY AND HYDROGEOLOGY

The site elevation is approximately 45 feet above mean sea level. The surface gradient is sloped to the east toward the Dominguez Channel (located approximately1 mile to the east) with an approximate slope of 20 feet per mile.

SCS indicates that the site is located in an area predominantly underlain by silt and sand (flood plain deposits) to a depth of 50 feet below ground surface (bgs). The Palos Verdes Sand exists from 50 to 100 feet bgs and is comprised of coarse-grained sand and gravel. An unnamed formation exists from 100 to 200 feet bgs and is comprised of fine-grained silt, clay, and sand in the upper half, and sand and gravel in the lower half. The San Pedro Formation is reported to exist below the 200-foot bgs level and is comprised of clay, silt, sand, and gravel and is approximately 500 feet thick.

SCS indicates that the depth to groundwater is approximately 60 to 65 feet bgs in this area. The general groundwater gradient in the vicinity of the subject property is reported to be to the southeast. Local site conditions may vary from regional conditions.

SITE HISTORICAL CONFIRMATION

Our site historical confirmation consisted of a review of the following:

- Aerial photographs at Whittier College, Department of Geography, 1927 through 1958 (not consecutive years) and Rupp Aerial Photography, 1938 through 1992 (not consecutive years)
- USGS Topographic Maps (Torrance, California, 1964, photo revised in 1981)
- Sanborn Fire Insurance Maps
- Building Permits, Los Angeles County Department of Public Works
- Interviews with Mr. Jim Dunavant and Mr. Leo Cahill

AERIAL PHOTOGRAPHS

We reviewed aerial photographs dated 1927 to 1992, and made the following observations:

- Photographs dated 1927 through 1947 show the subject property to be undeveloped. Land use in the vicinity includes farms located to the north and south of the subject property.

- A photograph dated 1941 shows the farm on the north side to have expanded to include portions of the subject property.

➢ A photograph dated 1946 shows the Shell Oil Company Synthetic Rubber Plant and McDonnell Douglas Aircraft Plant to be in place. The Shell plant is located adjacent to the subject property on the east side and the Douglas plant is located approximately 600 feet northwest of the subject property. This photograph shows the Shell plant with numerous ASTs, some within 50 feet of the subject property. A railroad line is visible in place around the perimeter of the Shell plant, adjacent to the subject property.

➢ A photograph dated 1951 shows Building C of the subject property in place. This photograph also shows miscellaneous debris on the southern portion of the subject property.

➢ A photograph dated 1954 shows the northern half of Building A in place. This photograph also shows a row of small aboveground tanks along the northwestern property line. This photograph does not reveal which side of the property line the tanks were located.

➢ A photograph dated 1957 shows the northern portion of Building B.

➢ A photograph dated 1963 shows a southern addition to Building A. A small square building is located in the center of the property and three ASTs are present to the south of the building.

➢ A photograph dated 1972 shows Building C connected to a building on the 19706 S. Normandie Avenue property (to the west). It is not clear whether this connection is simply an awning or an actual structural connection. This photograph also shows the lumber yard (currently adjacent to the subject property) in place. Additionally, the Shell plant has been demolished and the land is undeveloped.

➢ A photograph dated 1985 shows the southern extension of Building B to be in place. Building A runs continuously, extending onto the 19706 S. Normandie Avenue parcel (to the west). At this time, the two properties are still a single parcel. The land on the east side of the subject property (where the Shell plant formerly existed) has been developed into a business park.

➢ A photograph dated 1992 shows the division of the property into two separate parcels [Mr. Larry Sims (PACCAR) stated this division occurred around 1989]. Building A has been divided along the western property line into two separate buildings. Further, the portion of Building C on the west side of the western property line has been removed. The small square building in the center of the property appears in the photograph, but our site reconnaissance indicates that this is probably just the slab foundation left in place after the building was demolished.

USGS MAP REVIEW

We reviewed the USGS topographic map for the area of the subject property. Buildings A, B and C are shown on the 1964 map. No other relevant information is available from the USGS map.

SANBORN FIRE INSURANCE MAPS

We researched the availability of Sanborn Fire Insurance Maps for the subject property. Sanborn Fire Insurance Maps were produced from around 1890 through the 1960s for the purpose of fire insurance in many highly developed or industrial areas. However, the vicinity of the subject property was not mapped and, therefore, no maps are available for this area.

BUILDING PERMITS

We reviewed building permits for the subject property at the County of Los Angeles Department of Public Works (DPW) Annex in Lomita, California to check for the existence of permits which would indicate installation of waste water clarifiers, septic systems, underground storage tanks (USTs), and other items of potential environmental concern. Based on our building permit review, it appears that the site was originally developed in the 1940s. Through the 1950s and 1960s, the site occupants remodeled the subject buildings as well as constructed additional buildings on the property. The original land use appears to have been storage of construction related equipment (Kuchner Construction Company), followed by the manufacture of paints and storage of solvents (American Chemsolv, Inc.), and finally the manufacture of oil well completion equipment (B & W Monarch followed by TRICO). Substances used and stored on the property have included oil, hydraulic fluids, solvents, and paints.

The earliest permits contained in the file for 1206 W. 196th Street are dated 1957. These permits were obtained for the construction of a cesspool. Building permits indicate that the subject property was occupied by American Chemsolv, Inc. (a paint manufacturing and solvent storage facility) in 1957. By 1974, B & W Monarch (TRICO's predecessor) occupied the property.

We did not locate installation or abandonment permits for either the concrete-filled, three-stage vehicle and parts washing clarifier currently in place in the center of the subject site or for the waste water clarifier reportedly located in the southeast corner of the subject property shown on DPW documents. We reviewed a permit dated1958 for the installation of two 5,000-gallon aboveground storage tanks, and a permit dated 1960 for the "electrical wiring of pumps associated with copper column tanks." Both permits (1958 and 1960) were issued to American Chemsolv. No other permits were contained within the file for 1206 W. 196th Street.

Prior to the subject property (1206 W. 196th Street) being separated from the property at 19706 S. Normandie Avenue, the two parcels were one contiguous parcel with the Normandie Avenue address. During our building permit review at the DPW, we reviewed the permit file for the Normandie Avenue address. Permits in the file indicate the property at 19706 S. Normandie Avenue (not the subject property) was first occupied in 1947 by the Kuchner Construction Company. Two buildings and a cesspool were constructed at the Normandie property in 1947. Building permits for the Normandie property indicate a 550-gallon gasoline underground storage tank was installed in 1950, approximately 200 feet from the west end of Building A (on the Normandie property). Permits through the 1950s and

1960s list additions and alterations to the existing buildings, installation of a transformer and a heating, ventilation and air conditioning system.

INTERVIEWS

We interviewed Mr. Dunavant (TRICO) before and during our site reconnaissance. He stated that TRICO purchased B & W, Inc. in 1981, and TRICO was purchased by PACCAR, Inc. in 1987. In 1989, the western portion of the TRICO property with the 19706 S. Normandie Avenue address was sold to Mighty Enterprises.
Mr. Dunavant indicated that he never worked at the Torrance TRICO facility. He identified Mr. Leo Cahill as the former TRICO Torrance facility manager. We also spoke with Mr. Larry Sims (PACCAR) who indicated TRICO maintained two, 200 to 500 gallon solvent-containing ASTs on the southwest corner of Building B. We did not observe either of these ASTs during our site reconnaissance.

We contacted Mr. Cahill to interview him about previous site activities. Mr. Cahill indicated that he began working at the Torrance facility when it was owned by
B & W Incorporated in 1963 and worked at the facility until October 1993, when it was closed. Mr. Cahill stated he did not know about the ASTs that were on the property when American Chemsolv occupied the property. He indicated that there were two clarifiers on the property, both are reported to have been abandoned. The clarifier on the central portion of the property was used to process vehicle wash water and steam cleaning water from die and parts washing. The clarifier on the southeast corner of the property was connected from a machine outflow stream to the storm drain.

REGULATORY AGENCY FILE AND LIST REVIEW

We contracted with Environmental Risk Information and Imaging Services (ERIIS) to perform a search of Federal and State regulatory agency database listings. We reviewed the regulatory agency database lists presented by ERIIS (see Appendix A) to obtain information of potential concern regarding the subject property and off-site properties within a one-mile radius of the subject property.

In addition, we visited the Regional Water Quality Control Board (RWQCB), the Los Angeles County Department of Public Works (DPW), the California Department of Toxic Substances Control (DTSC), and the California Department of Conservation, Division of Oil and Gas (DOG) to review regulatory file information on the subject and neighboring properties. Our findings are provided below.

SUBJECT PROPERTY

Agency Lists. The subject property address appears on the RCRIS-SG, HWIS, CERCLIS, TRI, FINDS, and CORTESE lists (see Appendix A for explanation of acronyms).

The RCRIS-SG database is a listing of facilities that generate between 100 kilograms and 1,000 kilograms of hazardous waste per month. The HWIS database is a listing of facilities

that are required to report their hazardous waste activities to the California Environmental Protection Agency (Cal EPA). These listings do not necessarily indicate a problem; rather, these listings indicate that the associated facilities have generated hazardous wastes that are regulated on a federal and state level.

The CERCLIS database is a listing of sites which may require cleanup or are being reviewed by the United States Environmental Protection Agency (USEPA) for potential listing on the National Priorities List (NPL). Based on an evaluation conducted by Weston under contract to the USEPA, the TRICO facility has not been listed on the NPL (see section 7.4).

The TRI database is a listing of facilities which have reported a release or transfer of toxic chemicals. The FINDS database is a listing of facilities being tracked by the USEPA. The CORTESE database is a listing of facilities which have reported underground storage tank (UST) releases, impacted groundwater supply wells, or may have operated sanitary landfills. The subject property is listed on the aforementioned databases. Because the subject property appears on these databases, there is some concern about potential impact to the environment from on-site activities.

RWQCB Files. The RWQCB file information indicates the cesspool installed in the 1960s was abandoned in 1974, but not filled in with concrete until 1987. The RWQCB file also contains a report by SCS Engineers that provides the results of soil and groundwater sampling and analysis conducted at the subject property by SCS in 1987. In summary, the SCS report indicates that concentrations of volatile organic compounds (VOCs), including chlorinated compounds, are present in the soil and groundwater beneath the subject property (see Section 7.1 for a discussion of the SCS Report).

We spoke with Mr. Keith Elliot (Water Resource Control Engineer with the RWQCB) about the TRICO file. He stated that the RWQCB does not have oversight jurisdiction of the TRICO facility at this time.

Mr. Elliot indicated that the RWQCB is systematically reviewing all cases of solvent-impacted soil and groundwater within the Los Angeles region. The RWQCB may request a remedial action plan to address impacted soil and groundwater at selected facilities based on the concentrations of solvents present.

DPW Files. The DPW files contain information pertaining to the concrete-filled vehicle and parts washing clarifier located at the subject property. Additionally, the files contain blueprints showing another clarifier in the southeast corner of the property (the clarifier Mr. Cahill referred to). The files did not contain information relating to environmental issues concerning the subject property.

DTSC Files. Based on information reviewed at the DTSC, it appears that in July 1992, the TRICO facility was identified as potential hazardous waste site and listed on the CERCLIS database. In October 1992, Roy F. Weston, Inc., under a USEPA contract, conducted a Hazard Ranking System (HRS) assessment at the subject property as part of the USEPA's

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The results of the HRS assessment did not recommend placing the TRICO facility on the NPL.

NEIGHBORING PROPERTIES

Agency Lists. We reviewed the regulatory agency database listings for neighboring properties in the vicinity of the subject property. Properties within one-quarter mile of the subject property appear on the CERCLIS, LUST, and CORTESE lists (see Appendix A for explanation of acronyms). Other facilities within one-mile of the subject property appear on other agency lists including the Del Amo and Montrose Superfund sites.

The Del Amo Superfund site is located in the southeast corner of the former Shell plant. This Superfund site is located approximately 2,500 feet southeast and down gradient, with respect to ground water flow, from the subject property. The Montrose Superfund site is located approximately 2,000 feet southwest and down gradient, with respect to ground water flow, from the subject property. Because of their distance from the subject property, these two sites do not appear to pose a threat of potential impact to the subject property.

Aside from the Del Amo and Montrose Superfund sites, the CERCLIS sites within one-quarter mile have been inspected and have received No Further Action (NFA) status from the USEPA, indicating the USEPA has decided the sites do not warrant cleanup under CERCLA.

RWQCB Files. We reviewed the file for McDonnell Douglas Aircraft Company at the RWQCB. The McDonnell Douglas facility is located about 600 feet west and northwest of the subject property. The file contained soil and groundwater analysis information. A consultant to McDonnell Douglas identified soil impacted with solvents on-site. The McDonnell Douglas consultant also reported solvent-impacted groundwater was coming onto the McDonnell Douglas property from the northwest.

We spoke with Mr. David Hung with the RWQCB about solvent-impacted soil and groundwater in the Torrance area. He stated that he does not know of a solvent plume in the vicinity of the subject property.

DPW Files. Files we reviewed at the DPW did not indicate potential issues of solvent-impacted soil or groundwater originating from neighboring or adjacent properties.

DTSC. The DTSC files we reviewed contained information on the Amoco Chemical Company facility located adjacent to the northern property line, a paint manufacturing facility located north of the subject property, and a pesticide manufacturing facility located southwest of the subject property.

The files indicate Amoco Chemical Company used solvents, stored drums, and maintained ASTs and sumps at their facility. A cesspool was reportedly abandoned in 1969. No information about soil sampling in the vicinity of the cesspool was contained in the file. The paint manufacturing facility formerly maintained

14 underground storage tanks (USTs) containing solvents, pigment, and paint thinner. The DTSC file contained a violation issued to the facility for discharging paint waste to the ground. Eleven of the 14 tanks at this facility were abandoned in place, presenting a potential source of solvent-impacted soil and/or groundwater if the tanks were leaking prior to being abandoned in place. The pesticide manufacturing company operated from 1947 to 1951. Because of the proximity of this facility, a slight potential for soils impacted by airborne pesticides exists.

DOG. We requested oil well information at the DOG. No wells are on record in the vicinity of the subject property.

SITE RECONNAISSANCE

On January 30, 1995, Mr. David Darrow (Hart Crowser) met Mr. Jim Dunavant (TRICO) at the subject property and conducted a site reconnaissance to observe the site and the adjacent properties. Mr. Darrow discussed the past operations at the subject property with Mr. Dunavant. The site reconnaissance included a visual inspection of the three buildings and a visual observation of the surrounding properties.

We observed a clarifier to be abandoned in place in the center of the subject property. TRICO and B & W reportedly operated a three-stage clarifier located in the center of the site from the 1950s to the 1980s. The clarifier was formerly used to collect water from vehicle, parts, and die washing prior to disposal to a storm drain system.

A chemical storage area was formerly located on the east side of Building A. We visually inspected the area and observed moderate staining. The area was observed to be paved with concrete.

Two of the three subject property buildings are currently used for storage of imported patio furniture products. The importer (Mighty Enterprises) occupies the property at 19706 S. Normandie Avenue. We observed Buildings B and C to be partially full of the imported goods (see Photographs 7 and 8, Appendix B).

We observed a lumber storage yard to the west of the subject property. This lumber yard was observed in aerial photographs from 1972 through 1992. American Polystyrene Corporation is located to the north of the property. We observed ASTs at this property.

LEAD-BASED PAINT

We performed a qualitative field screening of selected deteriorated painted surfaces on the buildings at the subject property using LeadCheck™ to screen for the presence of lead-based paint. We performed ten tests on paint from the interior and exterior of the three buildings.

The paint tested positive for lead on three samples from the exterior of Building B. The remaining seven samples from Buildings A, B, and C tested negative for lead content. No paint was observed on the exterior of Building A or on the south end of Building B. These

tests are intended only as a screen, and the presence (or absence) of lead cannot be verified without laboratory chemical analysis of samples.

POLYCHLORINATED BIPHENYLS (PCB)

We identified six pole-mounted transformers, one transformer mounted to the side of Building B, and numerous fluorescent light fixtures at the subject property.

We contacted Southern California Edison (SCE) representative, Mr. Barry Guimont, to obtain information on the pole-mounted transformers we identified at the subject property. Mr. Guimont could not provide specific information on the transformers at the subject property. He provided a form letter which stated "In a statistically valid test of over 2,000 SCE distribution transformers, we determined that the concentration of PCB in the mineral oil is less than 50 parts per million (ppm) in over 96 percent of the units. The mineral oil in the 4 percent of the units that tested above 50 ppm is generally below 100 ppm." The letter indicated that SCE would conduct testing on transformer fluid upon request. If the transformer fluid contains less than 50 ppm PCBs, the cost of testing ($500) will be passed on to the party requesting the test. In the event that the fluid contains greater than 50 ppm PCBs, SCE will cover the cost of the test.

The transformer mounted to Building B appears to be an air-cooled transformer and should not contain dielectric fluids.

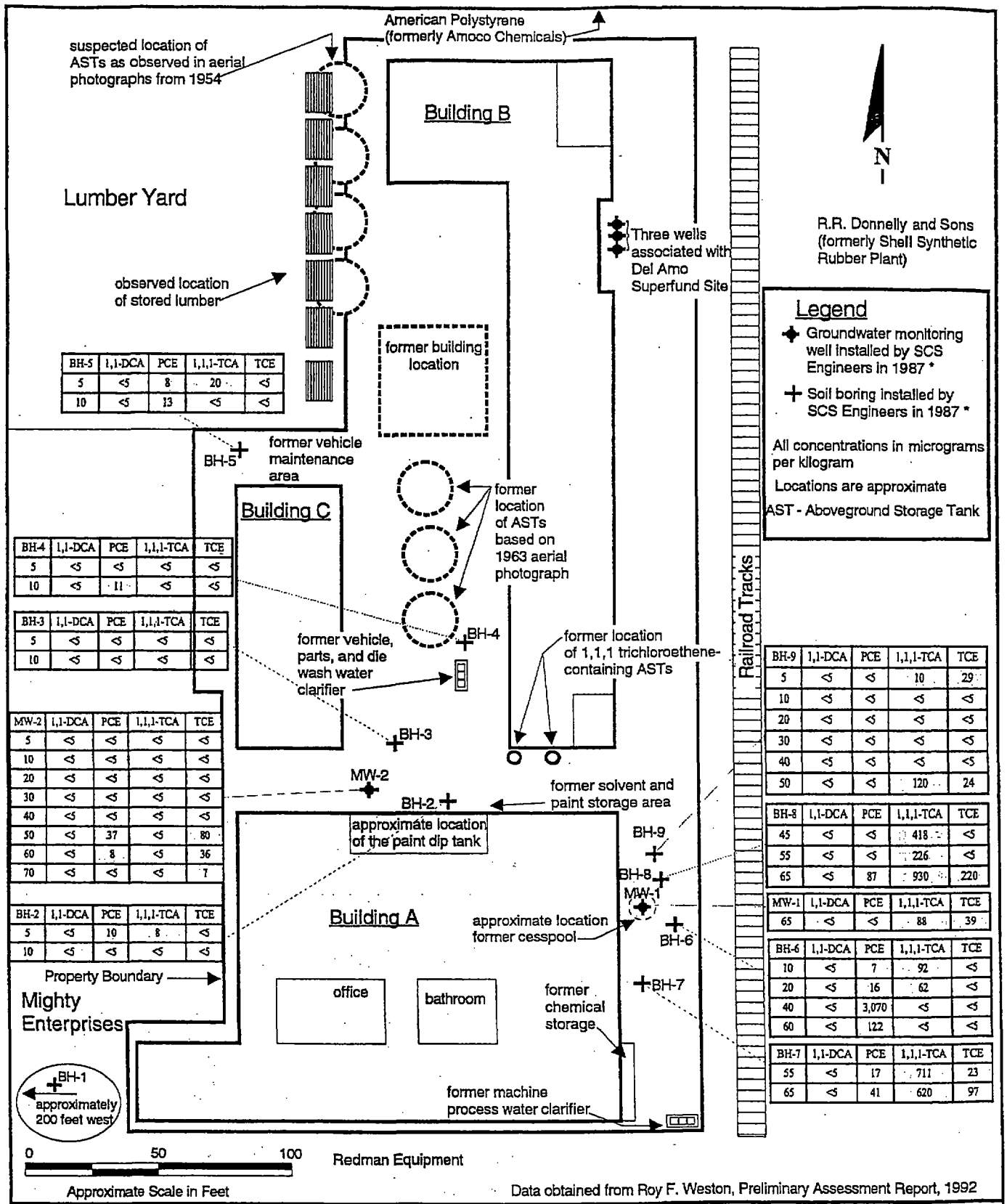
The transformers at the subject property were observed to be in good condition. No staining, discoloration, or corrosion was observed on the transformers.

Based on the age of the subject buildings, it is likely that some of the fluorescent light fixtures in the three subject buildings have PCB-containing ballasts. We did not observe leaking ballasts during our reconnaissance.

ASBESTOS SCREENING

We obtained bulk samples of selected building materials from various locations throughout the three buildings. The bulk building material samples were analyzed for asbestos content by Polar Light Microscopy.

We did not identify floor tiles, ceiling tiles, or sheetrock in Building C and, therefore, we did not obtain samples of building materials from Building C. The results of our asbestos screening indicate that samples of floor tiles obtained from Buildings A and B contained asbestos. The results from our limited asbestos bulk sample testing do not constitute a California Occupational Safety and Health Administration (CAL OSHA) approved asbestos survey. Our limited asbestos testing intended only to screen for the presence of exposed asbestos-containing materials. In order to confirm the presence or absence of asbestos in all building materials, a comprehensive asbestos survey would need to be completed at the three buildings.



BH-5	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	8	20	<5
10	<5	13	<5	<5

BH-4	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	11	<5	<5

BH-3	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	<5	<5	<5

MW-2	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
10	<5	<5	<5	<5
20	<5	<5	<5	<5
30	<5	<5	<5	<5
40	<5	<5	<5	<5
50	<5	37	<5	80
60	<5	8	<5	36
70	<5	<5	<5	7

BH-2	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	10	8	<5
10	<5	<5	<5	<5

BH-9	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	10	29
10	<5	<5	<5	<5
20	<5	<5	<5	<5
30	<5	<5	<5	<5
40	<5	<5	<5	<5
50	<5	<5	120	24

BH-8	1,1-DCA	PCE	1,1,1-TCA	TCE
45	<5	<5	418	<5
55	<5	<5	226	<5
65	<5	87	930	220

MW-1	1,1-DCA	PCE	1,1,1-TCA	TCE
65	<5	<5	88	39

BH-6	1,1-DCA	PCE	1,1,1-TCA	TCE
10	<5	7	92	<5
20	<5	16	62	<5
40	<5	3,070	<5	<5
60	<5	122	<5	<5

BH-7	1,1-DCA	PCE	1,1,1-TCA	TCE
55	<5	17	711	23
65	<5	41	620	97

Data obtained from Roy F. Weston, Preliminary Assessment Report, 1992

HARTCROWSER

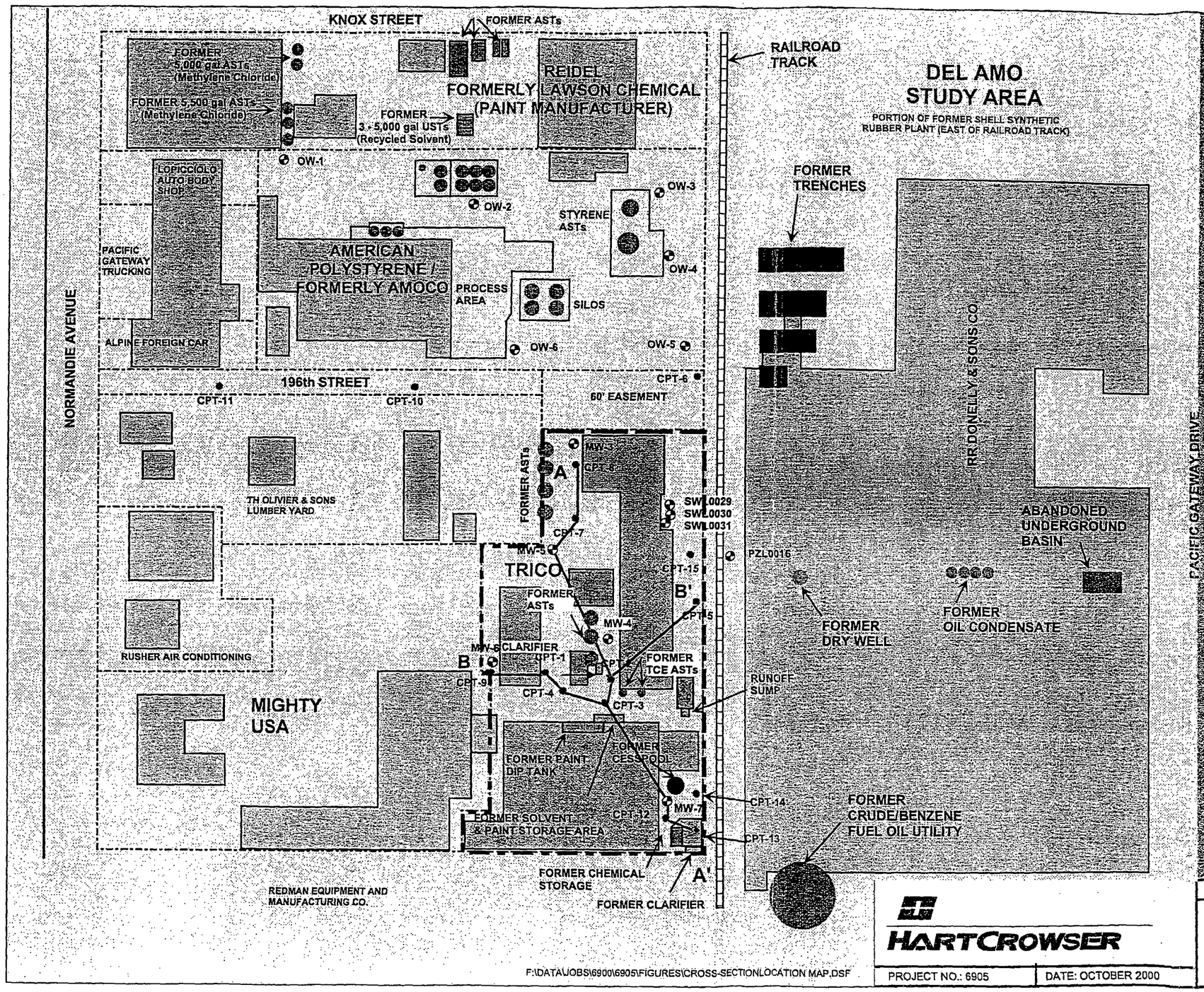
PROJECT NAME: FORMER TRICO - TORRANCE

Historical Soil Analytical Results for Selected Volatile Organic Compounds
1206 W.196th Street, Torrance, CA

PROJECT NO.: 6905 | DATE: October 2000

FIGURE 2

PACCAR 03990



REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

AMOCO CORPORATION - NOTIFICATION OF GROUNDWATER CONTAMINATION, AUGUST 27, 1992 (AMOCO)

TRICO - PRELIMINARY SITE CHARACTERIZATION REPORT, FORMER TRICO INDUSTRIES FACILITY, JULY 12, 1995 (H2O SCIENCE, INC.)

PHASE I REMEDIAL INVESTIGATION REPORT, DEL AMO STUDY AREA, LOS ANGELES, CALIFORNIA, OCTOBER 29, 1993 (DAMES & MOORE)

FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)

HARTCROWSER

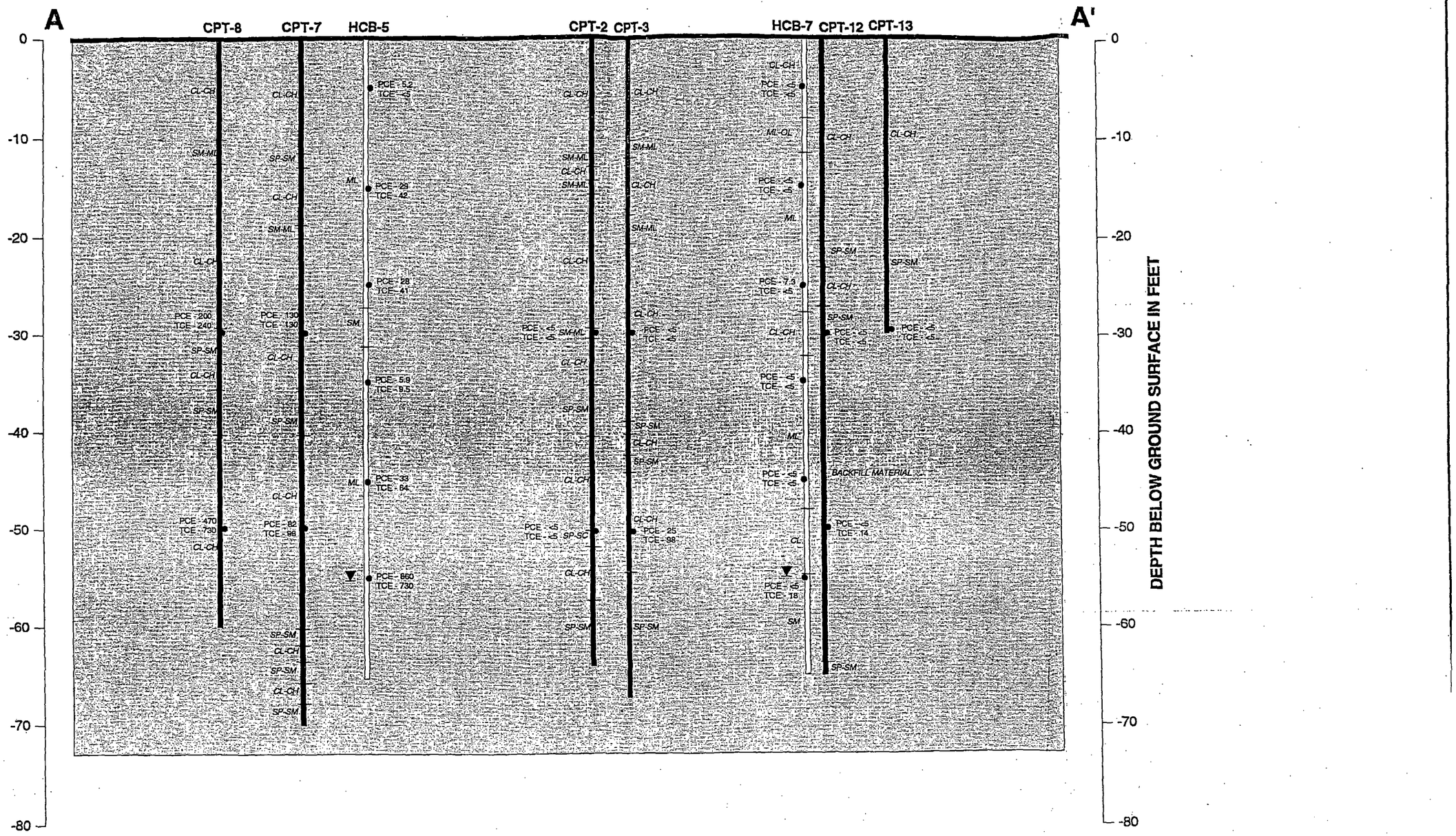
F:\DATA\JOBS\6900\6905\FIGURES\CROSS-SECTIONLOCATION MAP.DSF

PROJECT NO.: 6905	DATE: OCTOBER 2000

PROJECT NAME: TRICO - TORRANCE

Hart Crowser Sampling Locations and Cross-Section Location
1206 W.196th Street
Torrance, CA

FIGURE 3



EXPLANATION

PCE- Tetrachlorethylene
TCE- Trichlorethylene

Concentrations listed in micrograms per kilogram

Only PCE and TCE concentrations are listed in this figure.
Please see tables in the report for a listing of all detected EPA 8260 compounds

CPT Location

Soil Boring

Soil Sampling Location

Groundwater Level

0 60 120
Horizontal Scale in Feet

DRAWN BY: SK
F:\DATA\JOBS\6905\FIGURES\A-ACROSS.DSF

HARTCROWSER

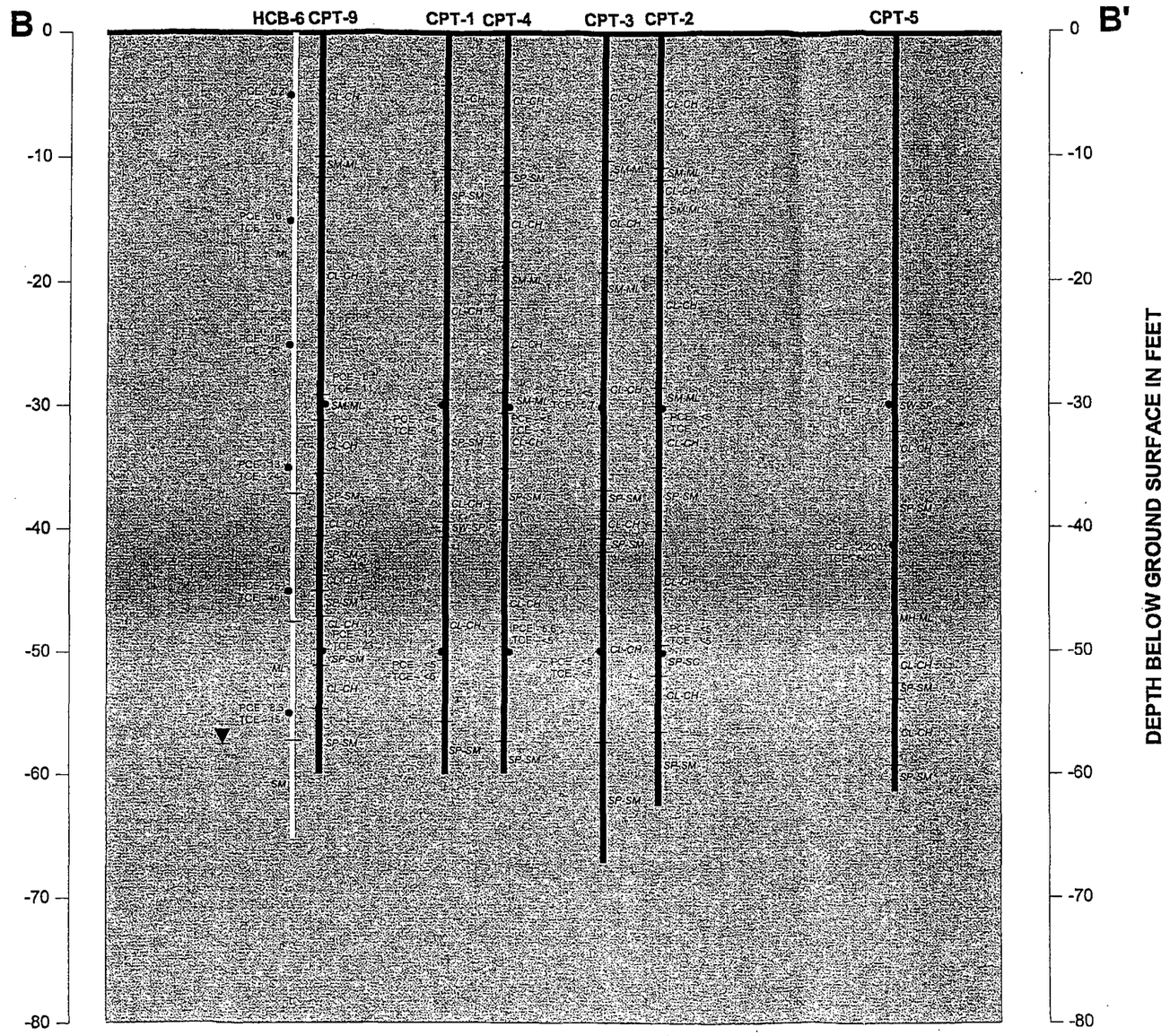
PROJECT NO.: 6905

DATE: OCTOBER 2000

PROJECT NAME: FORMER TRICO - TORRANCE

CROSS SECTION A - A'
1206 W.196th Street
Torrance, CA

FIGURE 4



EXPLANATION

PCE- Tetrachlorethylene
TCE- Trichlorethylene
Concentrations listed in micrograms per kilogram

Only PCE and TCE concentrations are listed in this figure.
Please see tables in the report for a listing of all detected EPA 8260 compounds

CPT Location
Soil Boring
Soil Sampling Location
Groundwater Level

0 60 120
Horizontal Scale in Feet

DRAWN BY: SK
F:\DATA\JOBS\6905\FIGURES\B-BCROSS.DSF

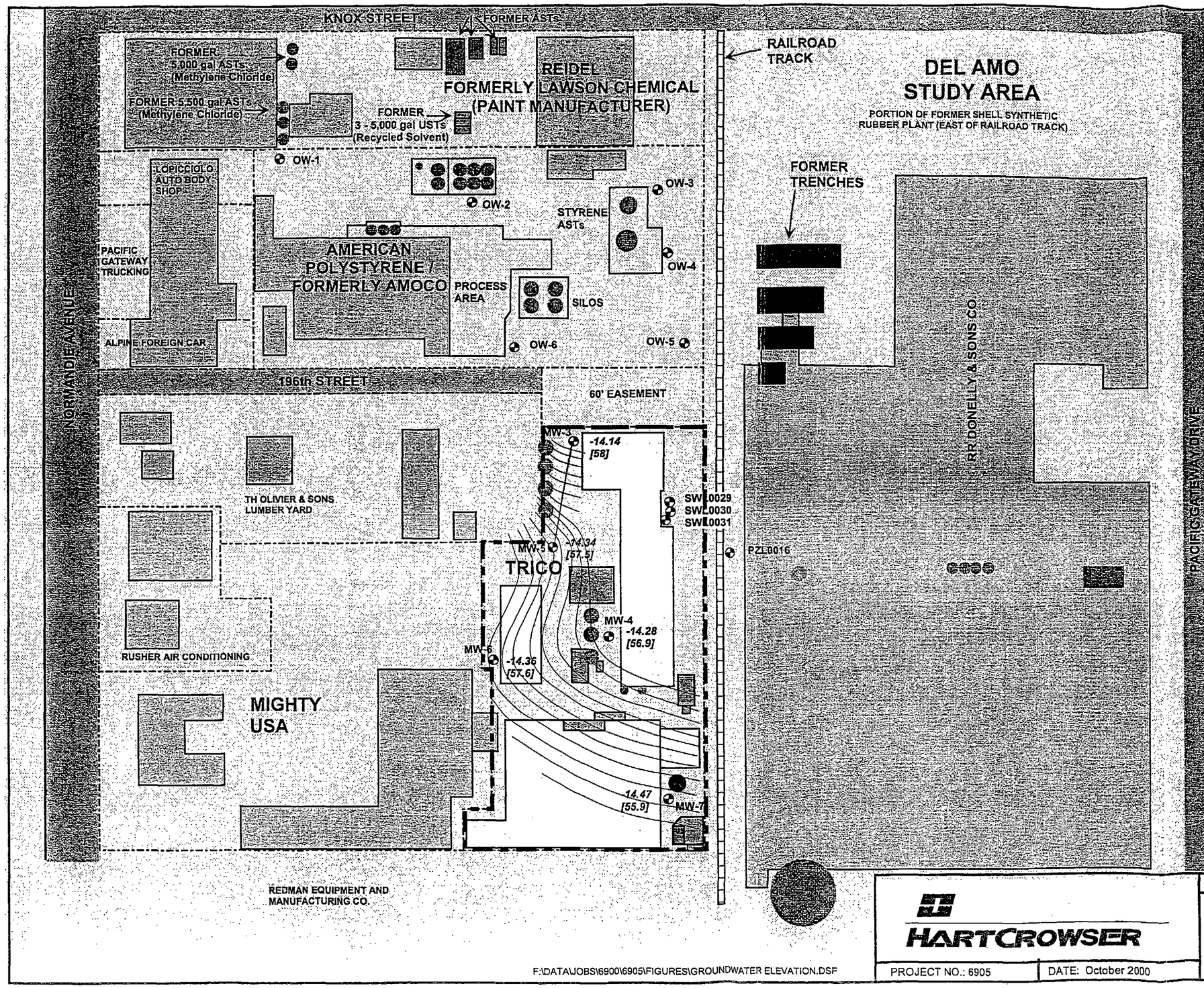
HARTCROWSER

PROJECT NO.: 6905 | DATE: OCTOBER 2000

PROJECT NAME: FORMER TRICO - TORRANCE

CROSS SECTION B - B'
1206 W.196th Street
Torrance, CA

FIGURE 5



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-14.34 = Groundwater Elevation (feet above mean sea level)

[57.5] = Depth of Groundwater (in feet)

MONITORING WELL LOCATIONS

AST - ABOVE STORAGE TANK

UST - UNDERGROUND STORAGE TANK

HARTCROWSER

PROJECT NO.: 6905

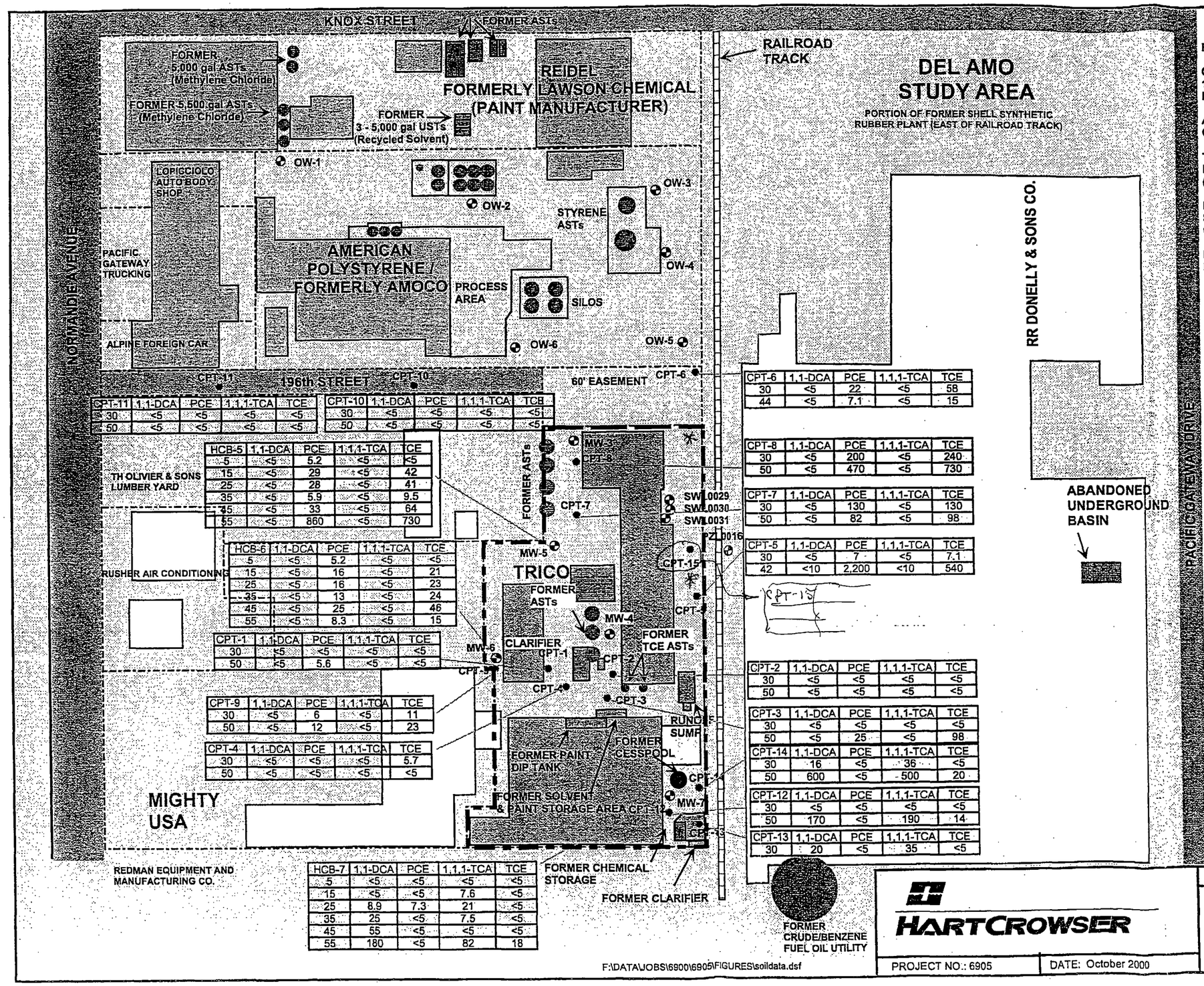
DATE: October 2000

PROJECT NAME: TRICO - TORRANCE

GROUNDWATER CONTOUR MAP
1206 W.196th Street
Torrance, CA

FIGURE 6

F:\DATA\JOBS\6900\6905\FIGURES\GROUNDWATER ELEVATION.DSF



CPT-11	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

CPT-10	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

HCB-5	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	5.2	<5	<5
15	<5	29	<5	42
25	<5	28	<5	41
35	<5	5.9	<5	9.5
45	<5	33	<5	64
55	<5	860	<5	730

HCB-6	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	5.2	<5	<5
15	<5	16	<5	21
25	<5	16	<5	23
35	<5	13	<5	24
45	<5	25	<5	46
55	<5	8.3	<5	15

CPT-1	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	5.6	<5	<5

CPT-9	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	6	<5	11
50	<5	12	<5	23

CPT-4	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	5.7
50	<5	<5	<5	<5

HCB-7	1,1-DCA	PCE	1,1,1-TCA	TCE
5	<5	<5	<5	<5
15	<5	<5	7.6	<5
25	8.9	7.3	21	<5
35	25	<5	7.5	<5
45	55	<5	<5	<5
55	180	<5	82	18

CPT-6	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	22	<5	58
44	<5	7.1	<5	15

CPT-8	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	200	<5	240
50	<5	470	<5	730

CPT-7	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	130	<5	130
50	<5	82	<5	98

CPT-5	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	7	<5	7.1
42	<10	2,200	<10	540

CPT-2	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	<5	<5	<5

CPT-3	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	<5	25	<5	98

CPT-14	1,1-DCA	PCE	1,1,1-TCA	TCE
30	16	<5	36	<5
50	600	<5	500	20

CPT-12	1,1-DCA	PCE	1,1,1-TCA	TCE
30	<5	<5	<5	<5
50	170	<5	190	14

CPT-13	1,1-DCA	PCE	1,1,1-TCA	TCE
30	20	<5	35	<5

REFERENCES

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-- SITE BOUNDARY
● CPT LOCATIONS
MONITORING WELL LOCATIONS

All units are in micrograms per kilogram.

AST - ABOVEGROUND STORAGE TANK
1,1-DCA = 1,1-dichloroethane
PCE = Perchloroethylene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethylene
UST - UNDERGROUND STORAGE TANK

F:\DATA\JOBS\6900\6905\FIGURES\soildata.dsf

HARTCROWSER

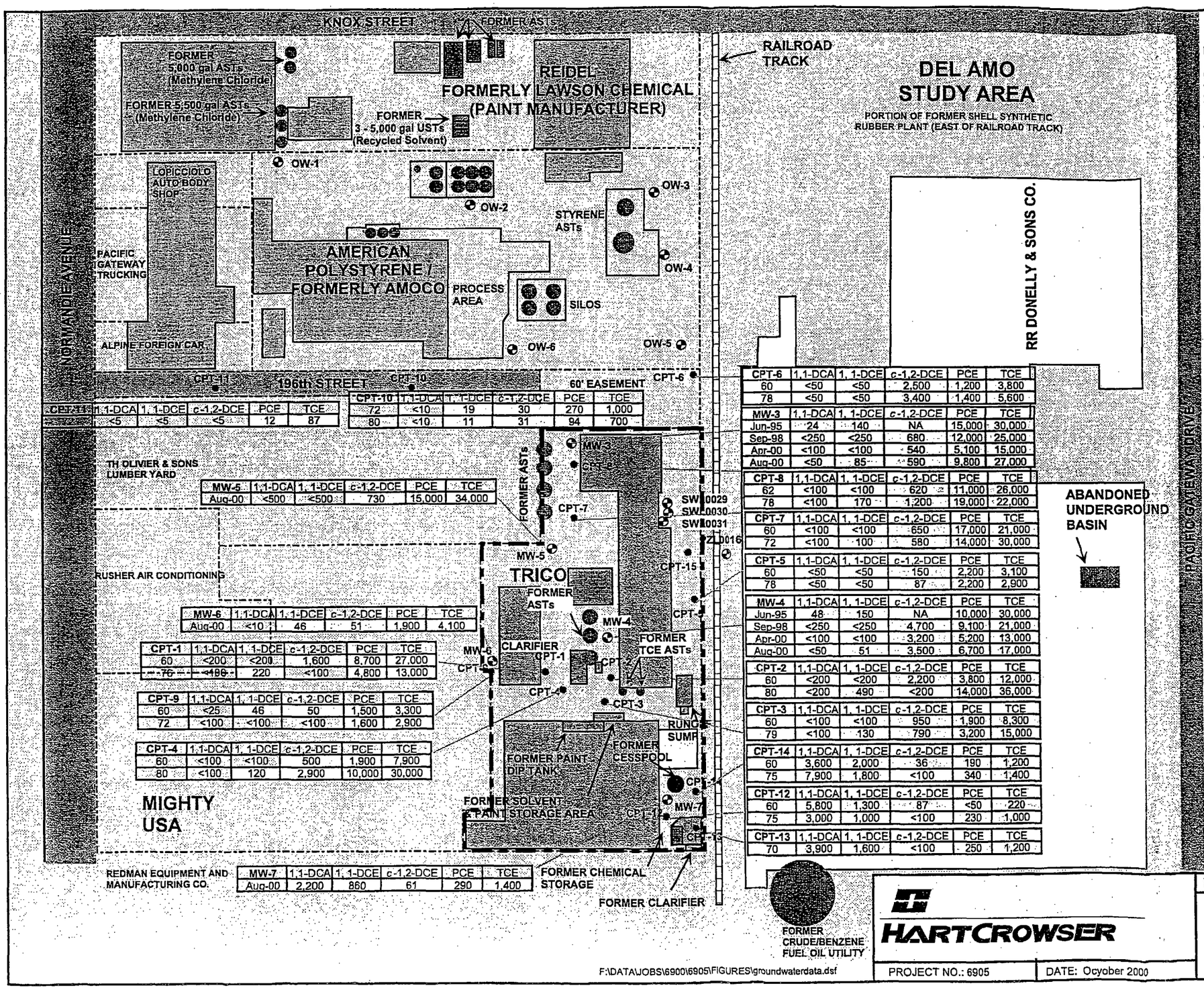
PROJECT NO.: 6905 | DATE: October 2000

PROJECT NAME: TRICO - TORRANCE

SELECTED VOCs IN SOIL
1206 W.196th Street
Torrance, CA

FIGURE 7

PACCAR 03995



CPT-11	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
	<5	<5	<5	12	87

CPT-10	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
72	<10	19	30	270	1,000
80	<10	11	31	94	700

MW-5	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	<500	<500	730	15,000	34,000

MW-6	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	<10	46	51	1,900	4,100

CPT-1	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<200	<200	1,600	8,700	27,000
76	<100	220	<100	4,800	13,000

CPT-9	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<25	46	50	1,500	3,300
72	<100	<100	<100	1,600	2,900

CPT-4	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	500	1,900	7,900
80	<100	120	2,900	10,000	30,000

MW-7	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Aug-00	2,200	860	61	290	1,400

CPT-6	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<50	<50	2,500	1,200	3,800
78	<50	<50	3,400	1,400	5,600

MW-3	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Jun-95	24	140	NA	15,000	30,000
Sep-98	<250	<250	680	12,000	25,000
Apr-00	<100	<100	540	5,100	15,000
Aug-00	<50	85	590	9,800	27,000

CPT-8	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
62	<100	<100	620	11,000	26,000
78	<100	170	1,200	19,000	22,000

CPT-7	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	650	17,000	21,000
72	<100	100	580	14,000	30,000

CPT-5	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<50	<50	150	2,200	3,100
78	<50	<50	87	2,200	2,900

MW-4	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
Jun-95	48	150	NA	10,000	30,000
Sep-98	<250	<250	4,700	9,100	21,000
Apr-00	<100	<100	3,200	5,200	13,000
Aug-00	<50	51	3,500	6,700	17,000

CPT-2	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<200	<200	2,200	3,800	12,000
80	<200	490	<200	14,000	36,000

CPT-3	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	<100	<100	950	1,900	8,300
79	<100	130	790	3,200	15,000

CPT-14	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	3,600	2,000	36	190	1,200
75	7,900	1,800	<100	340	1,400

CPT-12	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
60	5,800	1,300	87	<50	220
75	3,000	1,000	<100	230	1,000

CPT-13	1,1-DCA	1, 1-DCE	c-1,2-DCE	PCE	TCE
70	3,900	1,600	<100	250	1,200

REFERENCES

CERCLA SITE INSPECTION, LAWSON ENTERPRISES, INC., 19500 S. NORMANDIE AVE., TORRANCE, CALIFORNIA, MARCH 30, 1987 (ECOLOGY AND ENVIRONMENT, INC.)

AMOCO CORPORATION - NOTIFICATION OF GROUNDWATER CONTAMINATION, AUGUST 27, 1992 (AMOCO)

TRICO - PRELIMINARY SITE CHARACTERIZATION REPORT, FORMER TRICO INDUSTRIES FACILITY, JULY 12, 1995 (H2O SCIENCE, INC.)

PHASE I REMEDIAL INVESTIGATION REPORT, DEL AMO STUDY AREA, LOS ANGELES, CALIFORNIA, OCTOBER 29, 1993,(DAMES & MOORE)

FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998, (DAMES & MOORE)

SITE BOUNDARY
CPT LOCATIONS
MONITORING WELL LOCATIONS

All units are in micrograms per liter

AST - ABOVEGROUND STORAGE TANK
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethylene
c-1,2-DCE = cis-1,2-dichloroethylene
PCE = Perchloroethylene
TCE = Trichloroethylene
UST - UNDERGROUND STORAGE TANK

HARTCROWSER

PROJECT NO.: 6905 | DATE: October 2000

PROJECT NAME: TRICO - TORRANCE

SELECTED VOCs IN GROUNDWATER
1206 W.196th Street
Torrance, CA

FIGURE 8

F:\DATA\JOBS\6900\6905\FIGURES\groundwaterdata.dsf

Table 1: Groundwater Measurement Data
Former Trico Facility
1206 West 196 Street, Torrance, California

Well I.D.	Date	Total Depth (feet)	Depth to Water (feet)	Casing Elevation[a] (feet above MSL)	Ground Water Elevation (feet above MSL)
MW-3	8/30/00	66.2	58	43.86	-14.14
MW-4	8/30/00	64.6	56.9	42.62	-14.28
MW-5	8/30/00	65.2	57.5	43.16	-14.34
MW-6	8/30/00	64.6	57.6	43.24	-14.36
MW-7	8/30/00	64.1	55.9	41.43	-14.47

Notes:
[a] Surveyed by Dulin and Boynton Surveyors on 8/31/00
MSL = Mean sea level

f:\data\jobs\6900s\6905\tables\GW Measreument Data.xls\gw-elevation

Table 2
Summary of Soil Analytical Results
PACCAR, Torrance
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH (feet bgs)	DATE	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per kilogram)											
				Chloroform	1,2-DCB	1,4-DCB	1,1-DCA	1,2-DCA	1,1-DCE	*c*-1, 2-DCE	Methylene *Chloride*	PCE	1,1,1-TCA	1,1,2-TCA	TCE
CPT-1	HC-CPT-1-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-1-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**5.6**	<5	<5	<5
CPT-2	HC-CPT-2-SS-30'	30	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-2-SS-50'	50	3-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-3	HC-CPT-3-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-3-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	**6.5**	<50	**25**	<5	<5	**98**
CPT-4	HC-CPT-4-SS-30'	30	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	**5.7**
	HC-CPT-4-SS-50'	50	4-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-5	HC-CPT-5-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**7**	<5	<5	**7.1**
	HC-CPT-5-SS-42'	42	5-Apr-00	<10	<10	<10	<10	<10	<10	<10	<100	**2,200**	<10	<10	**540**
CPT-6	HC-CPT-6-SS-30'	30	5-Apr-00	<5	<5	<5	<5	<5	<5	**150**	<50	**22**	<5	<5	**58**
	HC-CPT-6-SS-44'	44	5-Apr-00	<5	<5	<5	<5	<5	<5	**68**	<50	**7.1**	<5	<5	**15**
CPT-7	HC-CPT-7-SS-30'	30	10-Apr-00	<5	<5	<5	<5	<5	<5	**32**	<50	**130**	<5	<5	**130**
	HC-CPT-7-SS-50'	50	10-Apr-00	<5	<5	<5	<5	<5	<5	**35**	<50	**82**	<5	<5	**98**
CPT-8	HC-CPT-8-SS-30'	30	6-Apr-00	**14**	<5	<5	<5	**6.2**	<5	**22**	<50	**200**	<5	<5	**240**
	HC-CPT-8-SS-50'	50	6-Apr-00	**14**	**11**	**5.4**	<5	**33**	<5	**36**	**310**	**470**	<5	**11**	**730**
CPT-9	HC-CPT-9-SS-30'	30	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**6**	<5	<5	**11**
	HC-CPT-9-SS-50'	50	7-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	**12**	<5	<5	**23**
CPT-10	HC-CPT-10-SS-33'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-10-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-11	HC-CPT-11-SS-30'	30	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-11-SS-50'	50	6-Apr-00	<5	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<5
CPT-12	HC-CPT-12-SS-30'	30	11-Apr-00	<5	<5	<5	<5	**6.9**	<5	<5	<50	<5	<5	<5	<5
	HC-CPT-12-SS-50'	50	11-Apr-00	<5	<5	<5	**170**	**8.4**	**68**	<5	<50	<5	**190**	<5	**14**
CPT-13	HC-CPT-13-SS-30'	30	11-Apr-00	<5	<5	<5	**20**	**8.2**	**13**	<5	<50	<5	**35**	<5	<5
CPT-14	HC-CPT-14-SS-30'	30	11-Apr-00	<5	<5	<5	**16**	**7.2**	**6.4**	<5	<50	<5	**36**	<5	<5
	HC-CPT-14-SS-50'	50	11-Apr-00	<5	<5	<5	**600**	**12**	**110**	<5	<50	<5	**500**	<5	**20**
EPA Region IX PRGs for industrial soil				***520***	***370,000***	***7,300***	***2,000,000***	***760***	***120***	***150,000***	***20,000***	***16,000***	***1,400,000***	***1,900***	***6,100***

1,2-DCB = 1,2-Dichlorobenzene; 1,4-DCB = 1,4-Dichlorobenzene; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; 1,1,2-TCA = 1,1,2-Trichloroethane; TCE = Trichloroethene
PRGs - Preliminary Remediation Goals (PRG values were obtained from the USEPA website: http://www.epa.gov/region09)

Table 3
Summary of Soil Analytical Results, August 2000
Former Trico Facility
1206 West 196th Street, Torrance, California

Boring	Sample ID	Sample Depth (feet bgs)	Date	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per kilogram)								
				Chloro-form	1,2-DCB	Dibromo-chloromethane	1,1-DCA	1,1-DCE	*c*-1, 2-DCE	PCE	1,1,1-TCA	TCE
HCB-5	HCB5-5	5	24-Aug-00	<5	<5	<5	<5	<5	<5	**5.2**	<5	<5
	HCB5-15	15	24-Aug-00	<5	<5	<5	<5	<5	**22**	**29**	<5	**42**
	HCB5-25	25	24-Aug-00	<5	<5	<5	<5	<5	**19**	**28**	<5	**41**
	HCB5-35	35	24-Aug-00	<5	<5	<5	<5	<5	**6.9**	**5.9**	<5	**9.5**
	HCB5-45	45	24-Aug-00	<5	<5	<5	<5	<5	**29**	**33**	<5	**64**
	HCB5-55	55	24-Aug-00	**14**	<5	**12**	<5	<5	**75**	**860**	<5	**730**
HCB-6	HCB6-5	5	24-Aug-00	<5	<5	<5	<5	<5	<5	**5.2**	<5	<5
	HCB6-15	15	24-Aug-00	<5	<5	<5	<5	<5	<5	**16**	<5	**21**
	HCB6-25	25	25-Aug-00	<5	<5	<5	<5	<5	<5	**16**	<5	**23**
	HCB6-35	35	25-Aug-00	<5	<5	<5	<5	<5	<5	**13**	<5	**24**
	HCB6-45	45	25-Aug-00	<5	<5	<5	<5	<5	<5	**25**	<5	**46**
	HCB6-55	55	25-Aug-00	<5	<5	<5	<5	<5	<5	**8.3**	<5	**15**
HCB-7	HCB7-5	5	25-Aug-00	<5	<5	<5	<5	<5	<5	<5	<5	<5
	HCB7-15	15	25-Aug-00	<5	<5	<5	<5	<5	<5	<5	**7.6**	<5
	HCB7-25	25	25-Aug-00	<5	**6.1**	<5	**8.9**	<5	<5	**7.3**	**21**	<5
	HCB7-35	35	25-Aug-00	<5	<5	<5	**25**	<5	<5	<5	**7.5**	<5
	HCB7-45	45	25-Aug-00	<5	<5	<5	**55**	<5	<5	<5	<5	<5
	HCB7-55	55	25-Aug-00	<5	<5	<5	**180**	**86**	<5	<5	**82**	**18**
EPA Region IX PRGs for industrial soil				***520***	***370,000***	***7,300***	***2,000,000***	***120***	***150,000***	***16,000***	***1,400,000***	***6,100***

1,2-DCB = 1,2-dichlorobenzene; 1,1-DCA = 1,1-dichloroethane; 1,1-DCE = 1,1-dichloroethene;
c-1,2-DCE = *cis*-1,2-dichloroethene; PCE = tetrachloroethene; 1,1,1-TCA = 1,1,1-trichloroethane; TCE = trichloroethene
PRGs - Preliminary Remediation Goals (PRG values were obtained from the EPA website: http://www.epa.gov/region09)
EPA - Environmental Protection Agency
bgs - Below ground surface

Table 4
Summary of Groundwater Analytical Results
PACCAR, Torrance
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH (feet bgs)	DATE	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per liter)												
				Benzene	2-Butanone	Chloroform	1,2-DCB	DDM	1,1-DCA	1, 2-DCA	1, 1-DCE	*c*-1,2-DCE	*t*-1, 2-DCE	PCE	1,1,1-TCA	TCE
CPT-1	HC-CPT-1-GW-60'	60	3-Apr-00	<100	<2,000	210	<200	<200	<200	<100	<200	1,600	<200	8,700	<200	27,000
	HC-CPT-1-GW-76'	76	3-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	220	<100	<100	4,800	<100	13,000
CPT-2	HC-CPT-2-GW-60'	60	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	<200	2,200	<200	3,800	<200	12,000
	HC-CPT-2-GW-80'	80	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	490	<200	<200	14,000	<200	36,000
CPT-3	HC-CPT-3-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	950	<100	1,900	<100	8,300
	HC-CPT-3-GW-79'	79	4-Apr-00	<50	<1,000	100	<100	<100	<100	<50	130	790	<100	3,200	<100	15,000
CPT-4	HC-CPT-4-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	500	<100	1,900	<100	7,900
	HC-CPT-4-GW-80'	80	4-Apr-00	70	<1,000	220	<100	<100	<100	64	120	2,900	<100	10,000	<100	30,000
CPT-5	HC-CPT-5-GW-60'	60	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	150	<50	2,200	<50	3,100
	HC-CPT-5-GW-78'	78	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	87	<50	2,200	<50	2,900
CPT-6	HC-CPT-6-GW-60'	60	5-Apr-00	<25	<500	90	<50	<50	<50	<25	<50	2,500	<50	1,200	<50	3,800
	HC-CPT-6-GW-78'	78	4-Apr-00	<25	<500	68	<50	<50	<50	<25	<50	3,400	<50	1,400	<50	5,600
CPT-7	HC-CPT-7-GW-60'	60	10-Apr-00	<50	<1,000	150	<100	<100	<100	<50	<100	650	<100	17,000	<100	21,000
	HC-CPT-7-GW-72'	72	11-Apr-00	<50	<1,000	160	<100	<100	<100	<50	100	580	<100	14,000	<100	30,000
CPT-8	HC-CPT-8-GW-62'	62	6-Apr-00	<50	<1,000	190	<100	<100	<100	76	<100	620	<100	11,000	<100	26,000
	HC-CPT-8-GW-78'	78	5-Apr-00	100	<1,000	340	120	<100	<100	120	170	1,200	<100	19,000	<100	22,000
CPT-9	HC-CPT-9-GW-60'	60	7-Apr-00	<13	<250	37	<25	<25	<25	<13	46	50	<25	1,500	<25	3,300
	HC-CPT-9-GW-72'	72	7-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	<100	<100	<100	1,600	<100	2,900
CPT-10	HC-CPT-10-GW-72'	72	7-Apr-00	<5	<100	21	<10	<10	<10	<5	19	30	24	270	<10	1,000
	HC-CPT-10-GW-80'	80	6-Apr-00	<5	<100	22	<10	<10	<10	<5	11	31	24	94	<10	700
CPT-11	HC-CPT-11-GW-72'	72	6-Apr-00	3.4	85	6.8	<5.0	13	<5	<2.5	<5	<5.0	<5	12	<5	87
CPT-12	HC-CPT-12-GW-60'	60	11-Apr-00	<25	<500	<50	<50	<50	5,800	<25	1,300	87	<50	<50	500	220
	HC-CPT-12-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	3,000	120	1,000	<100	<100	230	<100	1,000
CPT-13	HC-CPT-13-GW-70'	70	10-Apr-00	<50	<1,000	<100	<100	<100	3,900	91	1,600	<100	<100	250	<100	1,200
CPT-14	HC-CPT-14-GW-60'	60	11-Apr-00	<13	<250	<25	<25	<25	3,600	23	2,000	36	<25	190	550	1,200
	HC-CPT-14-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	7,900	150	1,800	<100	<100	340	<100	1,400
MW-3	MW-3	-	5-Apr-00	<50	<1,000	110	<100	<100	<100	54	<100	540	<100	5,100	<100	15,000
MW-3A	MW-3A	-	5-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	570	<100	5,000	<100	14,000
MW-4	MW-4	-	5-Apr-00	<50	<1,000	170	<100	<100	<100	<50	<100	3,200	<100	5,200	<100	13,000
California State Maximum Contaminant Level (MCL) [1]				*1*	*-*	*100*	*600*	*-*	*5*	*0.5*	*6*	*6*	*10*	*5*	*200*	*5*
EPA Region IX PRGs - Tap Water [2]				*-*	*1,900*	*-*	*-*	*3,900*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*

1,2-DCB = 1,2-Dichlorobenzene; DDM = Dicholorodifluoromethane; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; *t*-1,2-DCE = *trans*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene

[1] - MCL (primary) values were obtained from the Department of Health Services website - http://www.dhs.cahwnet.gov/

Table 4
Summary of Groundwater Analytical Results
PACCAR, Torrance
April 2000

CPT	SAMPLE ID	SAMPLE DEPTH (feet bgs)	DATE	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per liter)												
				Benzene	2-Butanone	Chloroform	1,2-DCB	DDM	1,1-DCA	1, 2-DCA	1, 1-DCE	*c*-1,2-DCE	*t*-1, 2-DCE	PCE	1,1,1-TCA	TCE
CPT-1	HC-CPT-1-GW-60'	60	3-Apr-00	<100	<2,000	210	<200	<200	<200	<100	<200	1,600	<200	8,700	<200	27,000
	HC-CPT-1-GW-76'	76	3-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	220	<100	<100	4,800	<100	13,000
CPT-2	HC-CPT-2-GW-60'	60	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	<200	2,200	<200	3,800	<200	12,000
	HC-CPT-2-GW-80'	80	3-Apr-00	<100	<2,000	<200	<200	<200	<200	<100	490	<200	<200	14,000	<200	36,000
CPT-3	HC-CPT-3-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	950	<100	1,900	<100	8,300
	HC-CPT-3-GW-79'	79	4-Apr-00	<50	<1,000	100	<100	<100	<100	<50	130	790	<100	3,200	<100	15,000
CPT-4	HC-CPT-4-GW-60'	60	4-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	500	<100	1,900	<100	7,900
	HC-CPT-4-GW-80'	80	4-Apr-00	70	<1,000	220	<100	<100	<100	64	120	2,900	<100	10,000	<100	30,000
CPT-5	HC-CPT-5-GW-60'	60	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	150	<50	2,200	<50	3,100
	HC-CPT-5-GW-78'	78	5-Apr-00	<25	<500	<50	<50	<50	<50	<25	<50	87	<50	2,200	<50	2,900
CPT-6	HC-CPT-6-GW-60'	60	5-Apr-00	<25	<500	90	<50	<50	<50	<25	<50	2,500	<50	1,200	<50	3,800
	HC-CPT-6-GW-78'	78	4-Apr-00	<25	<500	68	<50	<50	<50	<25	<50	3,400	<50	1,400	<50	5,600
CPT-7	HC-CPT-7-GW-60'	60	10-Apr-00	<50	<1,000	150	<100	<100	<100	<50	<100	650	<100	17,000	<100	21,000
	HC-CPT-7-GW-72'	72	11-Apr-00	<50	<1,000	160	<100	<100	<100	<50	100	580	<100	14,000	<100	30,000
CPT-8	HC-CPT-8-GW-62'	62	6-Apr-00	<50	<1,000	190	<100	<100	<100	76	<100	620	<100	11,000	<100	26,000
	HC-CPT-8-GW-78'	78	5-Apr-00	100	<1,000	340	120	<100	<100	120	170	1,200	<100	19,000	<100	22,000
CPT-9	HC-CPT-9-GW-60'	60	7-Apr-00	<13	<250	37	<25	<25	<25	<13	46	50	<25	1,500	<25	3,300
	HC-CPT-9-GW-72'	72	7-Apr-00	<50	<1,000	<100	<100	<100	<100	<50	<100	<100	<100	1,600	<100	2,900
CPT-10	HC-CPT-10-GW-72'	72	7-Apr-00	<5	<100	21	<10	<10	<10	<5	19	30	24	270	<10	1,000
	HC-CPT-10-GW-80'	80	6-Apr-00	<5	<100	22	<10	<10	<10	<5	11	31	24	94	<10	700
CPT-11	HC-CPT-11-GW-72'	72	6-Apr-00	3.4	85	6.8	<5.0	13	<5	<2.5	<5	<5.0	<5	12	<5	87
CPT-12	HC-CPT-12-GW-60'	60	11-Apr-00	<25	<500	<50	<50	<50	5,800	<25	1,300	87	<50	<50	500	220
	HC-CPT-12-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	3,000	120	1,000	<100	<100	230	<100	1,000
CPT-13	HC-CPT-13-GW-70'	70	10-Apr-00	<50	<1,000	<100	<100	<100	3,900	91	1,600	<100	<100	250	<100	1,200
CPT-14	HC-CPT-14-GW-60'	60	11-Apr-00	<13	<250	<25	<25	<25	3,600	23	2,000	36	<25	190	550	1,200
	HC-CPT-14-GW-75'	75	10-Apr-00	<50	<1,000	<100	<100	<100	7,900	150	1,800	<100	<100	340	<100	1,400
MW-3	MW-3	-	5-Apr-00	<50	<1,000	110	<100	<100	<100	54	<100	540	<100	5,100	<100	15,000
MW-3A	MW-3A	-	5-Apr-00	<50	<1,000	120	<100	<100	<100	<50	<100	570	<100	5,000	<100	14,000
MW-4	MW-4	-	5-Apr-00	<50	<1,000	170	<100	<100	<100	<50	<100	3,200	<100	5,200	<100	13,000
California State Maximum Contaminant Level (MCL) [1]				*1*	*-*	*100*	*600*	*-*	*5*	*0.5*	*6*	*6*	*10*	*5*	*200*	*5*
EPA Region IX PRGs - Tap Water [2]				*-*	*1,900*	*-*	*-*	*3,900*	*-*	*-*	*-*	*-*	*-*	*-*	*-*	*-*

1,2-DCB = 1,2-Dichlorobenzene; DDM = Dicholorodifluoromethane; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; *t*-1,2-DCE = *trans*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene

[1] - MCL (primary) values were obtained from the Department of Health Services website - http://www.dhs.cahwnet.gov/
[2]

Table 5
Summary of Groundwater Analytical Results, August 2000
Former Trico Facility
1206 West 196th Street, Torrance, California

Well	Date	Volatile Organic Compounds detected by EPA Method 8260 (in micrograms per liter)										
		Benzene	Chloroform	1,2-DCB	1,1-DCA	1, 2-DCA	1, 1-DCE	*c*-1,2-DCE	PCE	1,1,1-TCA	TCE	VC
MW-3	5-Apr-00	<50	110	<100	<100	54	<100	540	5,100	<100	15,000	<50
MW-3A	5-Apr-00	<50	120	<100	<100	<50	<100	570	5,000	<100	14,000	<50
MW-3	30-Aug-00	33	93	<50	<50	<25	85	590	9,800	<50	27,000	<25
MW-4	5-Apr-00	<50	170	<100	<100	<50	<100	3,200	5,200	<100	13,000	<50
MW-4	30-Aug-00	29	140	<50	<50	<25	51	3,500	6,700	<50	17,000	<25
MW-5	31-Aug-00	<250	<500	<500	<500	<250	<500	730	15,000	<500	34,000	<250
MW-5A	31-Aug-00	<250	<500	<500	<500	<250	<500	750	14,000	<500	31,000	<250
MW-6	30-Aug-00	<5	29	<10	<10	<5	46	51	1,900	<10	4,100	<5
MW-7	30-Aug-00	6	<10	13	2,200	12	860	64	290	240	1,400	15
MCL		*1*	*100*	*600*	*5*	*0.5*	*6*	*6*	*5*	*200*	*5*	*0.5*

1,2-DCB = 1,2-Dichlorobenzene; 1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; 1,1-DCE = 1,1-Dichloroethene;
c-1,2-DCE = *cis*-1,2-Dichloroethene; PCE = Tetrachloroethene; 1,1,1-TCA = 1,1,1-Trichloroethane; TCE = Trichloroethene; VC = Vinyl Chloride

California State Primary Maximum Contaminant Level (MCL) values were obtained from the Department of Health Services website - http://www.dhs.cahwnet.gov/
EPA - United States Environmental Protection Agency

Table 6
Summary of Carbon-Chain Analytical Results, August 2000
Former Trico Facility
1206 W. 196th Street
Torrance, CA

Sample	Sample Depth (feet bgs)	Carbon Range Analysis by EPA Method 8015 Modified (in milligrams per kilogram)														
		C_7	C_8	C_{9-10}	C_{11-12}	C_{13-14}	C_{15-16}	C_{17-18}	C_{19-20}	C_{21-22}	C_{23-24}	C_{25-28}	C_{29-32}	C_{33-36}	C_{36+}	TPH (as diesel)
HCB7-35	35	ND	ND	ND	ND	1	7	10	41	43	78	221	274	204	48	927
HCB7-45	45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	20

bgs - Below ground surface
ND - Not Detected
TPH - Total Petroleum Hydrocarbon

f:\data\jobs\6900s\6905\tables\analresults-mwinstallation.xls\carbon range

CPT SURVEY REPORT AND BORING LOGS

PRESENTATION

OF

CONE PENETRATION TEST DATA

Prepared for:

PACCAR TORRANCE SITE
1206 W. 196th Street
Los Angeles, CA
April 3-11, 2000

Prepared for:

HART CROWSER
One World Trade Center, Ste 2460
Long Beach, CA 90831
Office (562) 495-6360 / Fax (562) 495-6361

Prepared by:

KEHOE TESTING & ENGINEERING
15571 Industry Lane
Huntington Beach, CA 92649-1534
Office (714) 901-7270 / Fax (714) 901-7289

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2. SUMMARY OF FIELD WORK

3. FIELD EQUIPMENT & PROCEDURES

4. CONE PENETRATION TEST DATA & INTERPRETATION

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- CPT Plots
- CPT Classification/Soil Behavior Chart
- Computer Disks with CPT Excel Files

PRESENTATION OF CONE PENETRATION TEST DATA

1. INTRODUCTION

This report presents the results of a Cone Penetration Test (CPT) program carried out at a **Paccar Torrance Site** located in **Los Angeles, CA**. The work was performed by **KEHOE TESTING & ENGINEERING (KTE)** on **April 3-11, 2000**. The scope of work was performed as directed by Hart Crowser personnel.

2. SUMMARY OF FIELD WORK

The field work consisted of performing CPT soundings at 14 locations to determine the soil lithology. After completion of each CPT sounding, soil samples were taken at depths of approximately 30 and 50 feet and groundwater samples were taken at depths of approximately 60-65 feet and 70-80 feet. The soil and groundwater samples were taken adjacent to the CPT soundings (approximately 2 to 3 feet apart). At location CPT-12, the CPT sounding likely entered the backfill from a previous borehole from a depth of 30 to 65 feet. The previous borehole was approximately 2 feet from the CPT sounding. An additional location, CPT-15, was performed to a depth of 20 feet to evaluate a severely deteriorated asphalt surface. Soil samples were also taken at depths of 1, 5, 10 & 15 feet at this location.

3. FIELD EQUIPMENT & PROCEDURES

The CPT soundings were carried out by **KTE** using an integrated electronic cordless cone system manufactured by Geotech Equipment. **FIGURE 3.1** provides a schematic drawing of this system. The CPT soundings were performed in accordance with ASTM standards (D5778). The cone penetrometers were pushed using a PowerProbe direct push rig anchored with a six-inch diameter ground anchor. This rig has a pushing capacity of approximately 15 tons. The cones used during the program recorded the following parameters at 2.5 cm depth intervals:

- Cone Resistance (qc)
- Sleeve Friction (fs)
- Dynamic Pore Pressure (u)
- Inclination
- Penetration Speed
- Pore Pressure Dissipation (at selected depths)

The above parameters were recorded and viewed in real time using a portable computer and stored on a diskette for future analysis and reference. A complete set of baseline readings was taken prior to each sounding to determine temperature shifts and any zero load offsets. Monitoring base line readings ensures that the cone electronics are operation properly. The electronic cones manufactured by Geotech Equipment have downhole analog to digital conversion and temperature compensation to provide accurate load measurements. **FIGURE 3.2** provides the specifications of the cone penetrometer used for this project.

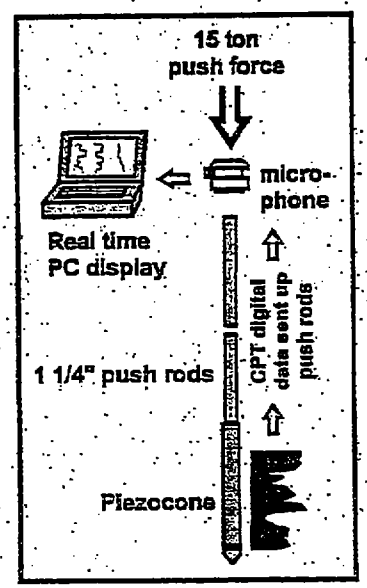


FIGURE 3.1 – CPT System

CONE SERIAL #:	3283
CAPACITIES	
Cone Resistance Capacity:	100 Mpa
Friction Sleeve Capacity:	1.00 Mpa
Pore Pressure Capacity:	2.50 Mpa
DIMENSIONS	
Tip Projected Area:	10 cm^2
Friction Sleeve Area:	150 cm^2
Pore Pressure Filter Thickness:	5 mm
Area Ratio:	0.85
PORE PRESSURE FILTER	
Material:	Sintered Brass
Saturation Material:	Glycerin

FIGURE 3.2 – Specifications of Cone Penetrometer

4. CONE PENETRATION TEST DATA & INTERPRETATION

The Cone Penetration Test data is presented in graphical form in the attached Appendix. Penetration depths are referenced to ground surface. The soil classification on the CPT plots is derived from the CPT Classification Chart (provided in the Appendix) and presents major soil lithologic changes. The stratigraphic interpretation is based on relationships between cone resistance (qc), sleeve friction (fs), and penetration pore pressure (u). The friction ratio (Rf), which is sleeve friction divided by cone resistance, is a calculated parameter that is used to infer soil behavior type. Generally, cohesive soils (clays) have high friction ratios, low cone resistance and generate excess pore water pressures. Cohesionless soils (sands) have lower friction ratios, high cone bearing and generate little (or negative) excess pore water pressures.

The interpretation of soils encountered on this project was carried out using correlations developed by Robertson et al, 1988. It should be noted that it is not always possible to clearly identify a soil type based on qc, fs and u. In these situations, experience, judgement and an

assessment of the pore pressure dissipation data should be used to infer the soil behavior type.

If you have any questions regarding this information, please do not hesitate to call our office at (714) 901-7270.

Sincerely,

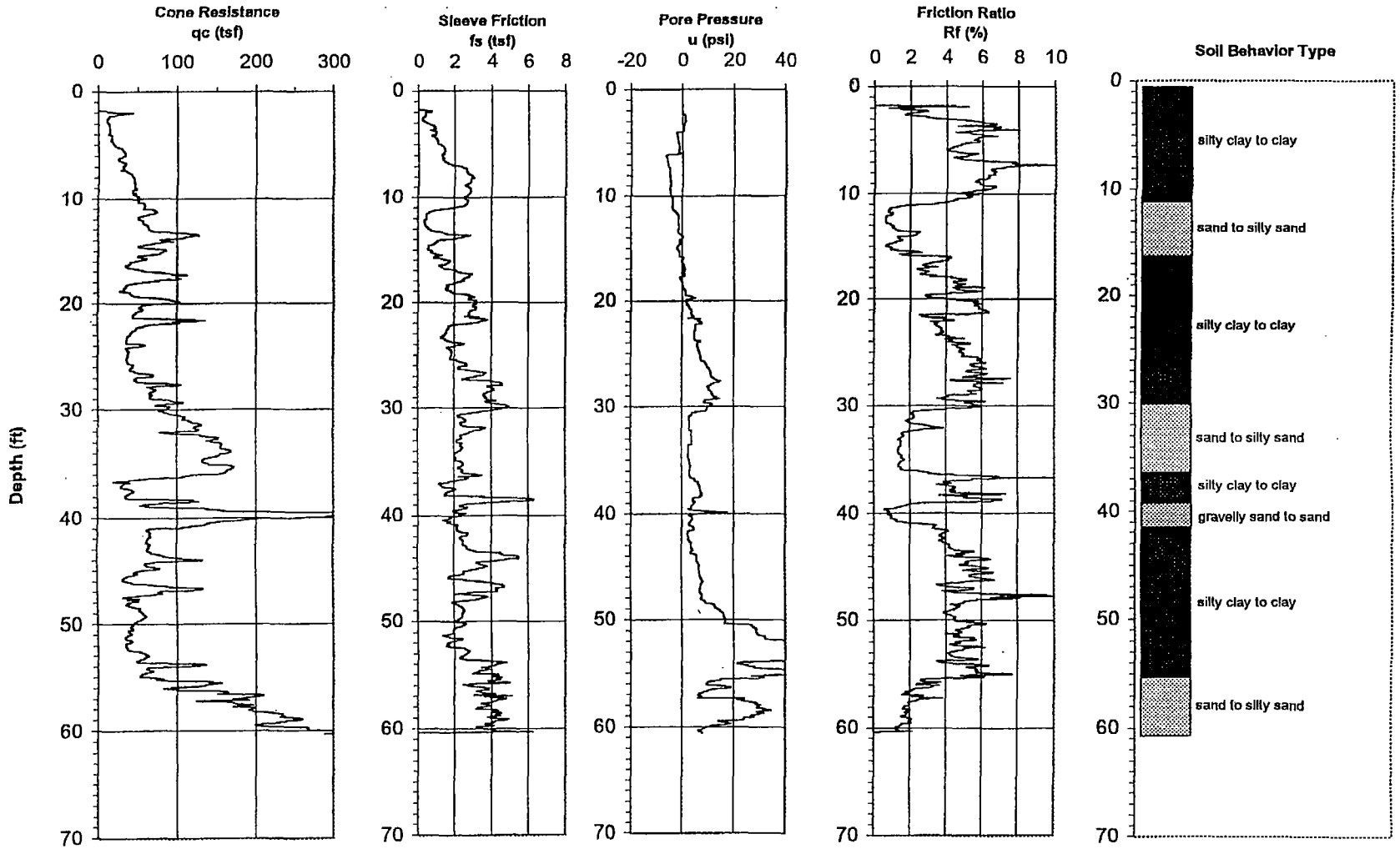
KEHOE TESTING & ENGINEERING

Steve Kehoe, P.E.
President

APPENDIX

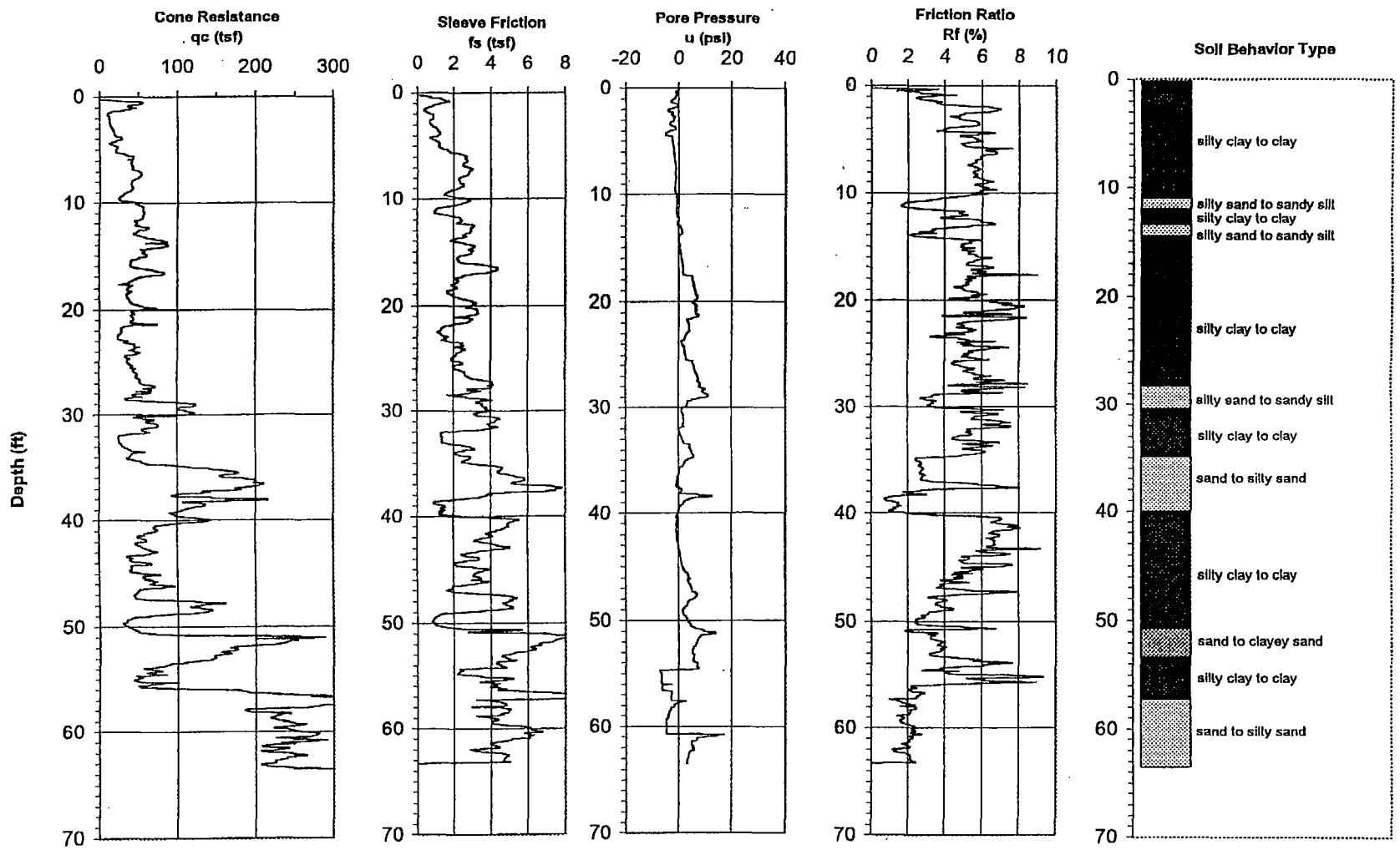
KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-1**	**CPT Date :**	**4/3/00**



KEHOE TESTING & ENGINEERING

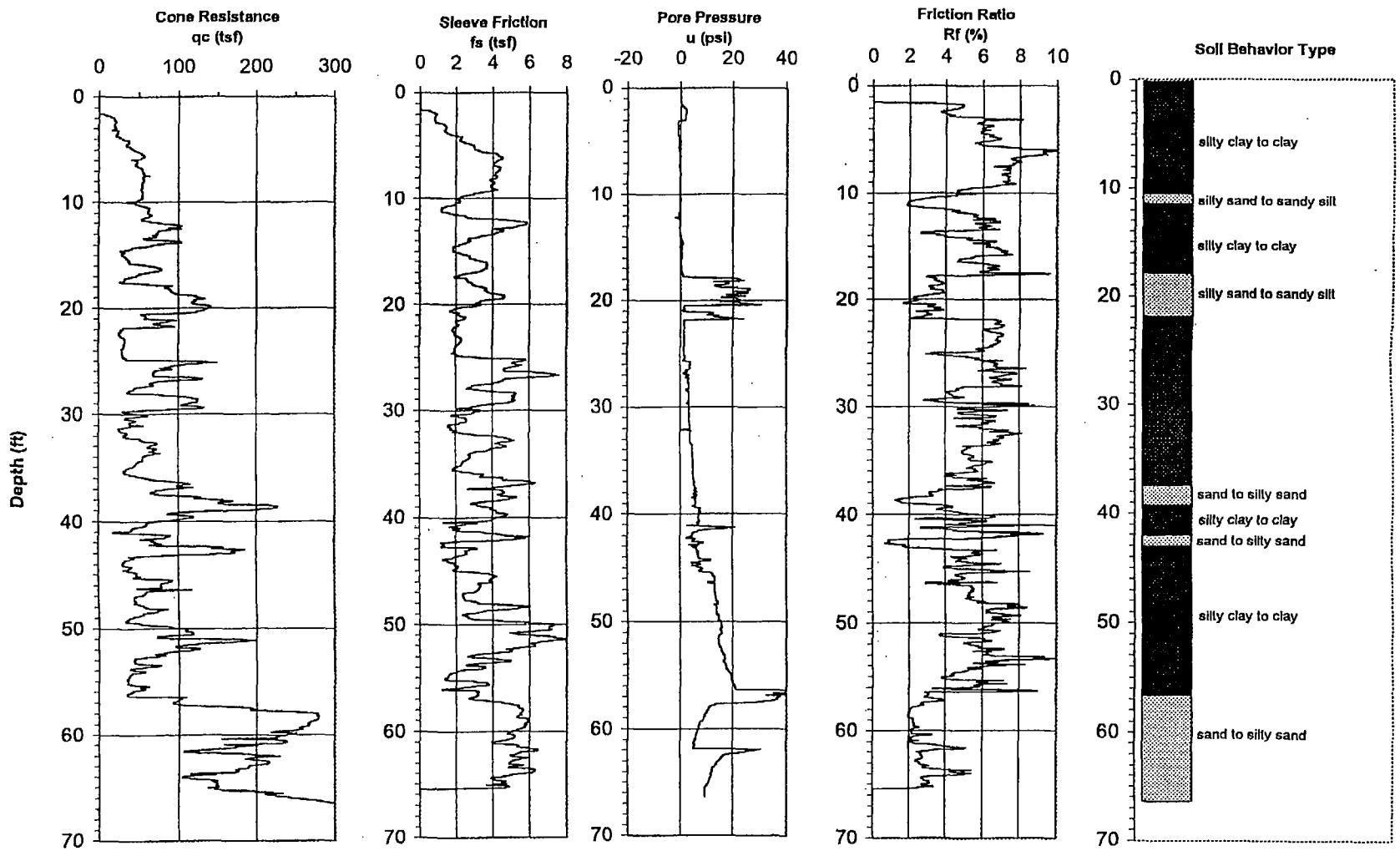
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-2**	**CPT Date :**	**4/3/00**



PACCAR 04012

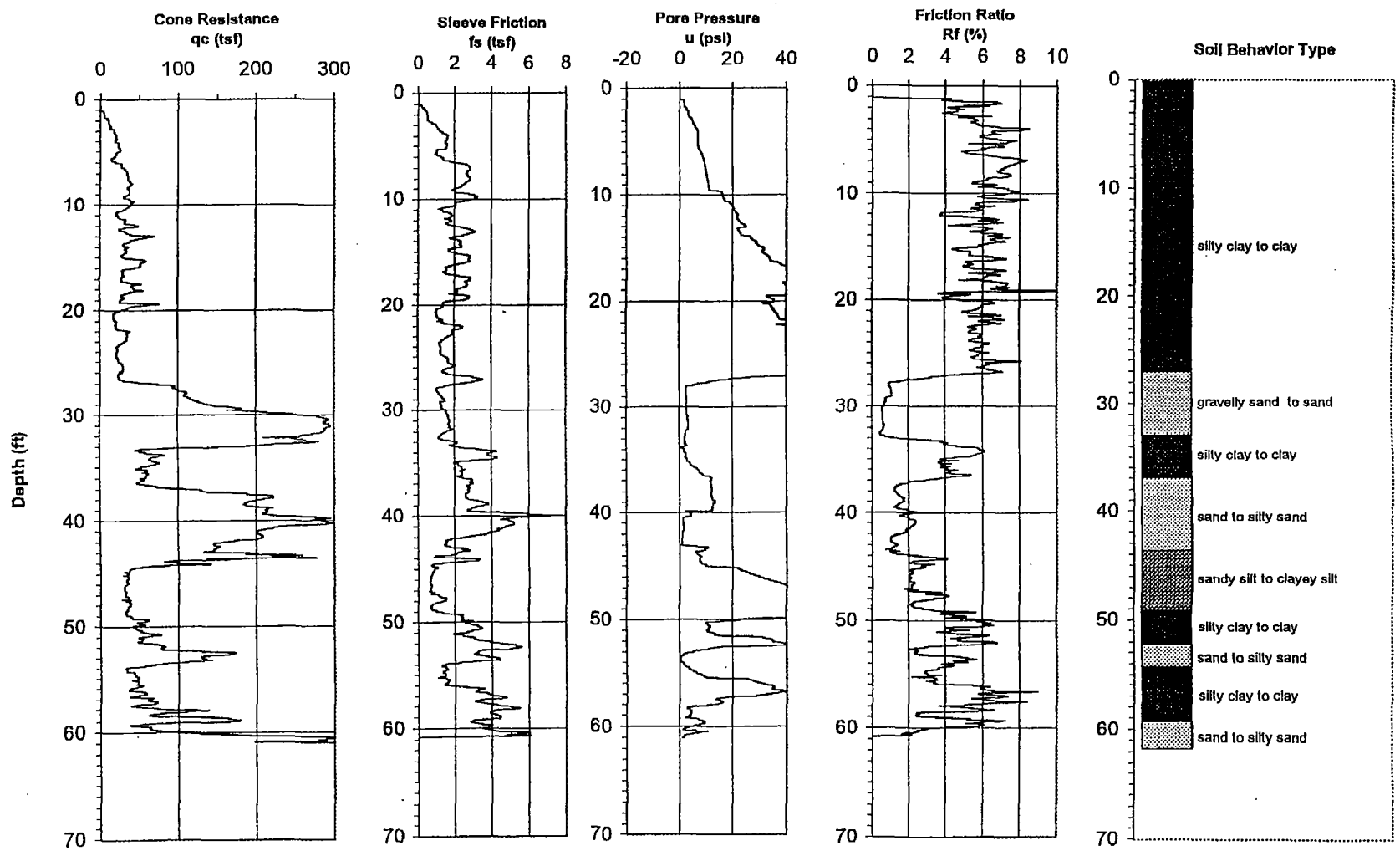
KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-3**	**CPT Date :**	**4/3/00**



KEHOE TESTING & ENGINEERING

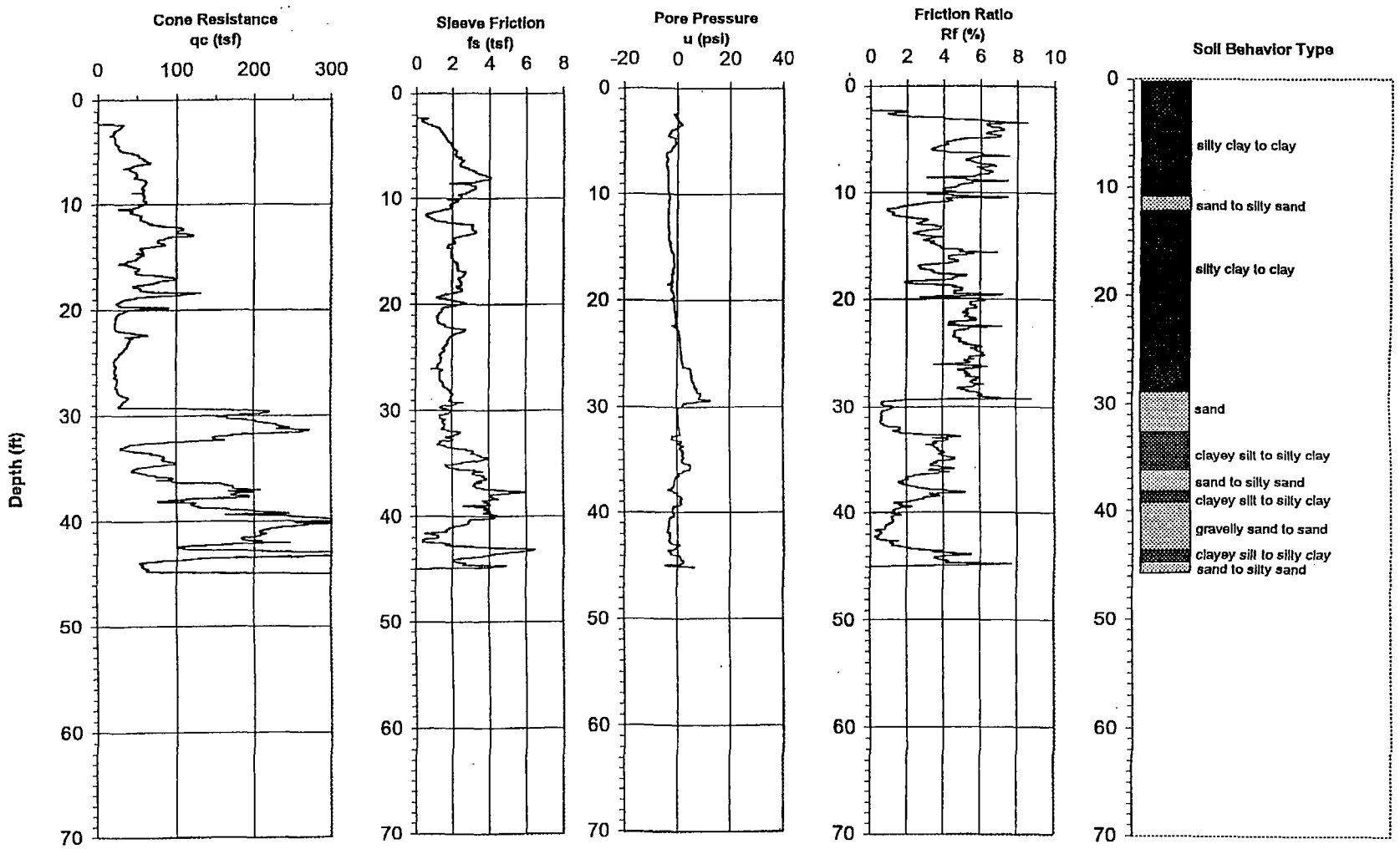
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-5**	**CPT Date :**	**4/4/00**



PACCAR 04014

KEHOE TESTING & ENGINEERING

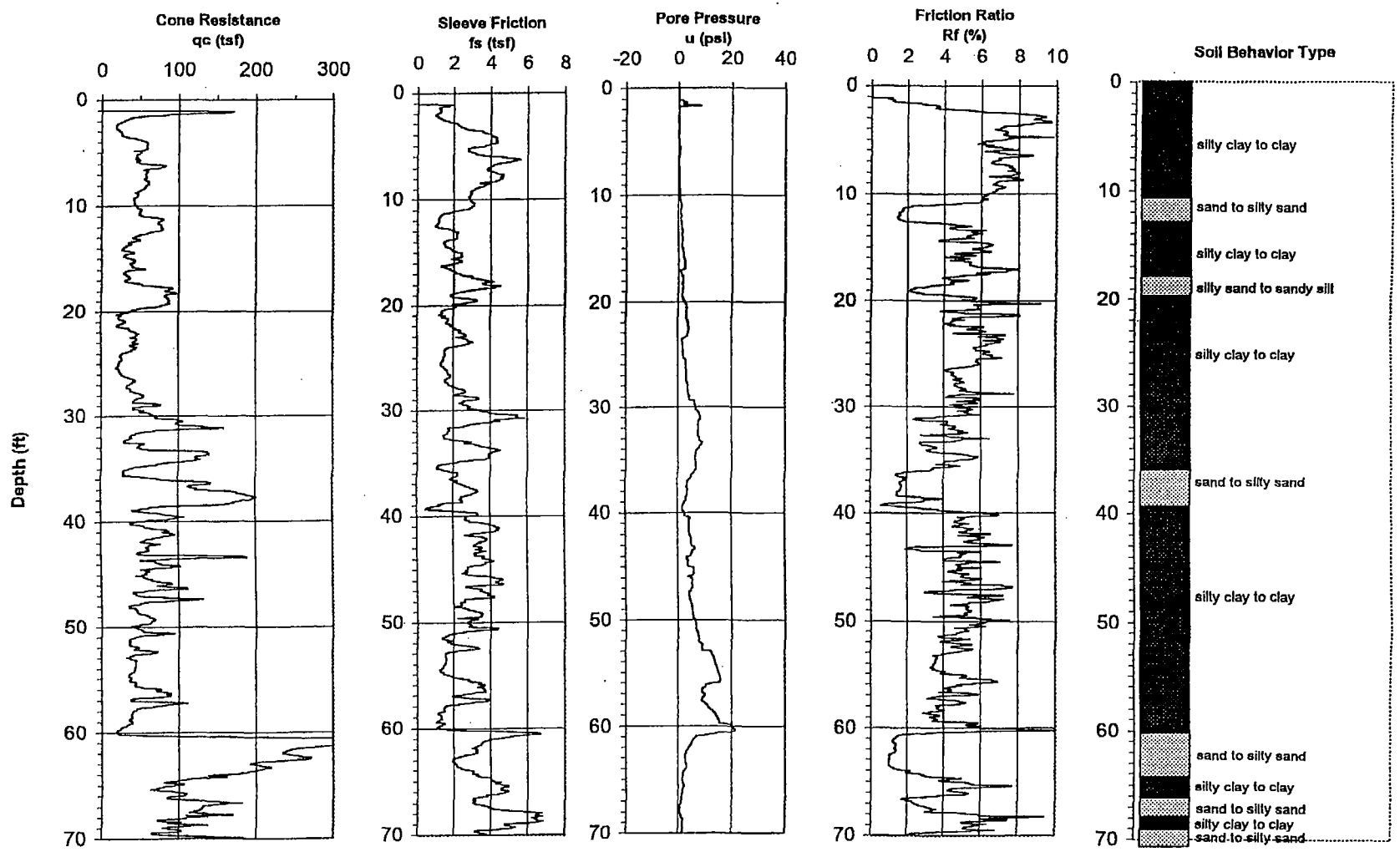
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-6**	**CPT Date :**	**4/4/00**



PACCAR 04015

KEHOE TESTING & ENGINEERING

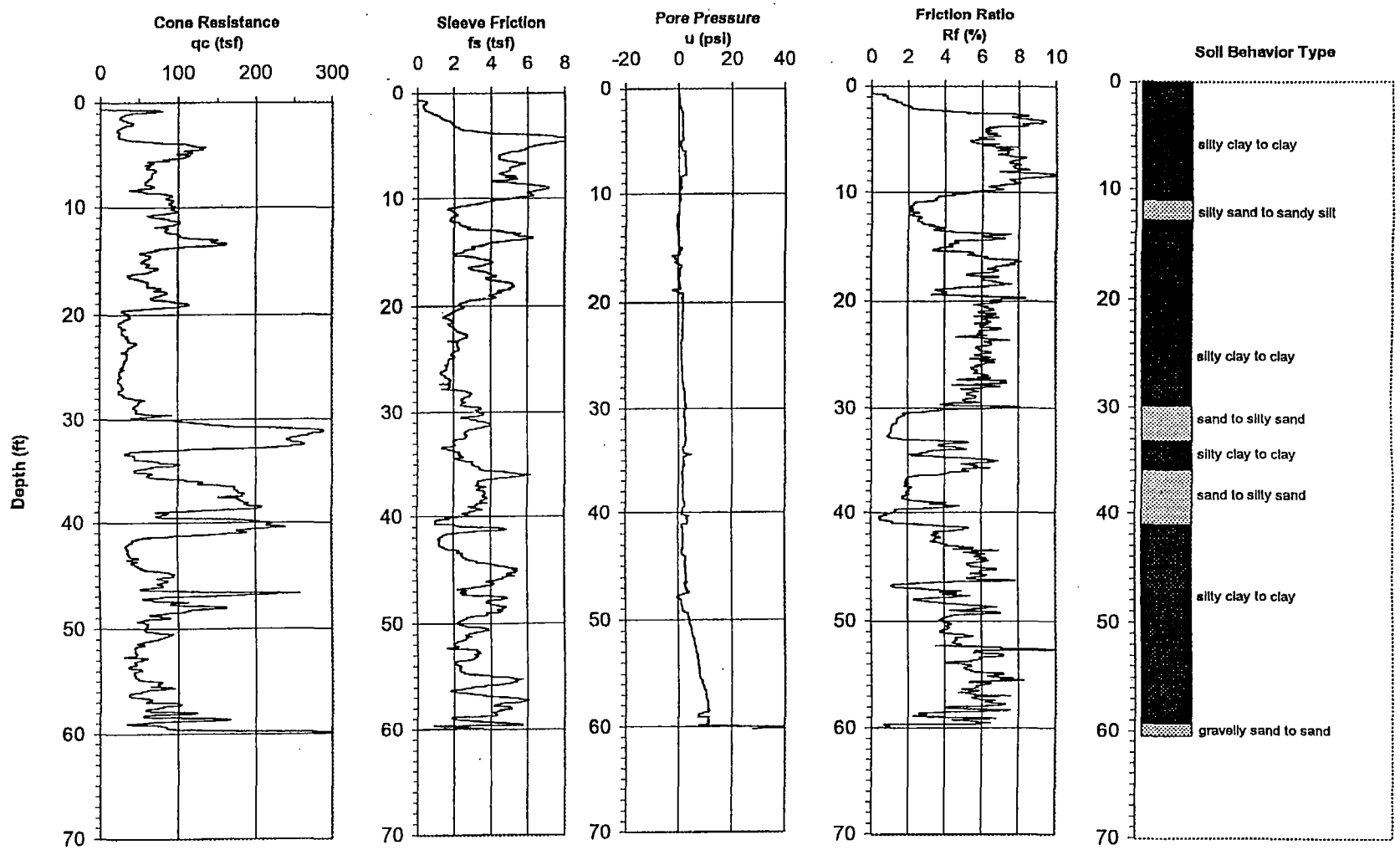
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-7**	**CPT Date :**	**4/4/00**



PACCAR 04016

KEHOE TESTING & ENGINEERING

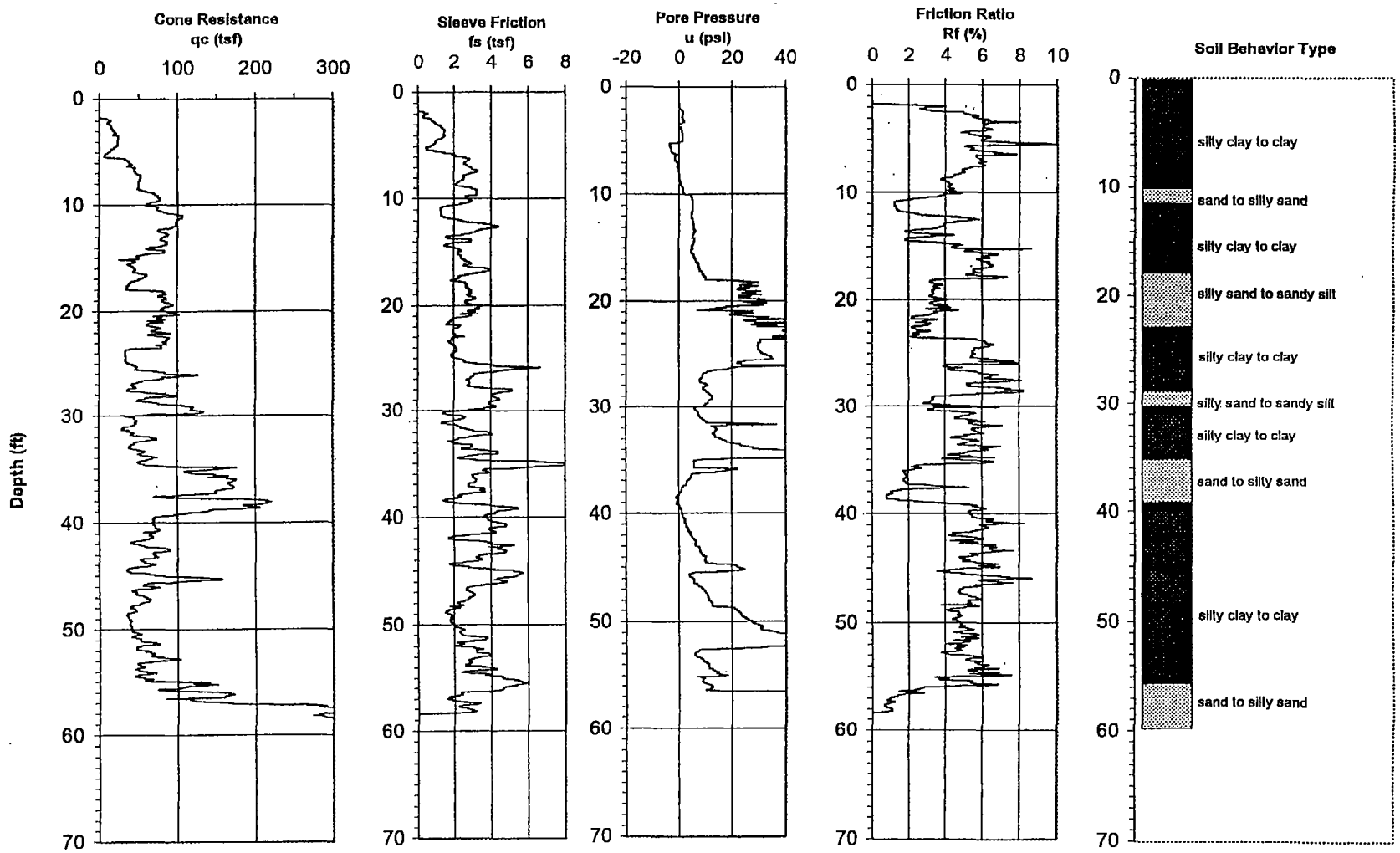
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-8**	**CPT Date :**	**4/4/00**



PACCAR 04017

KEHOE TESTING & ENGINEERING

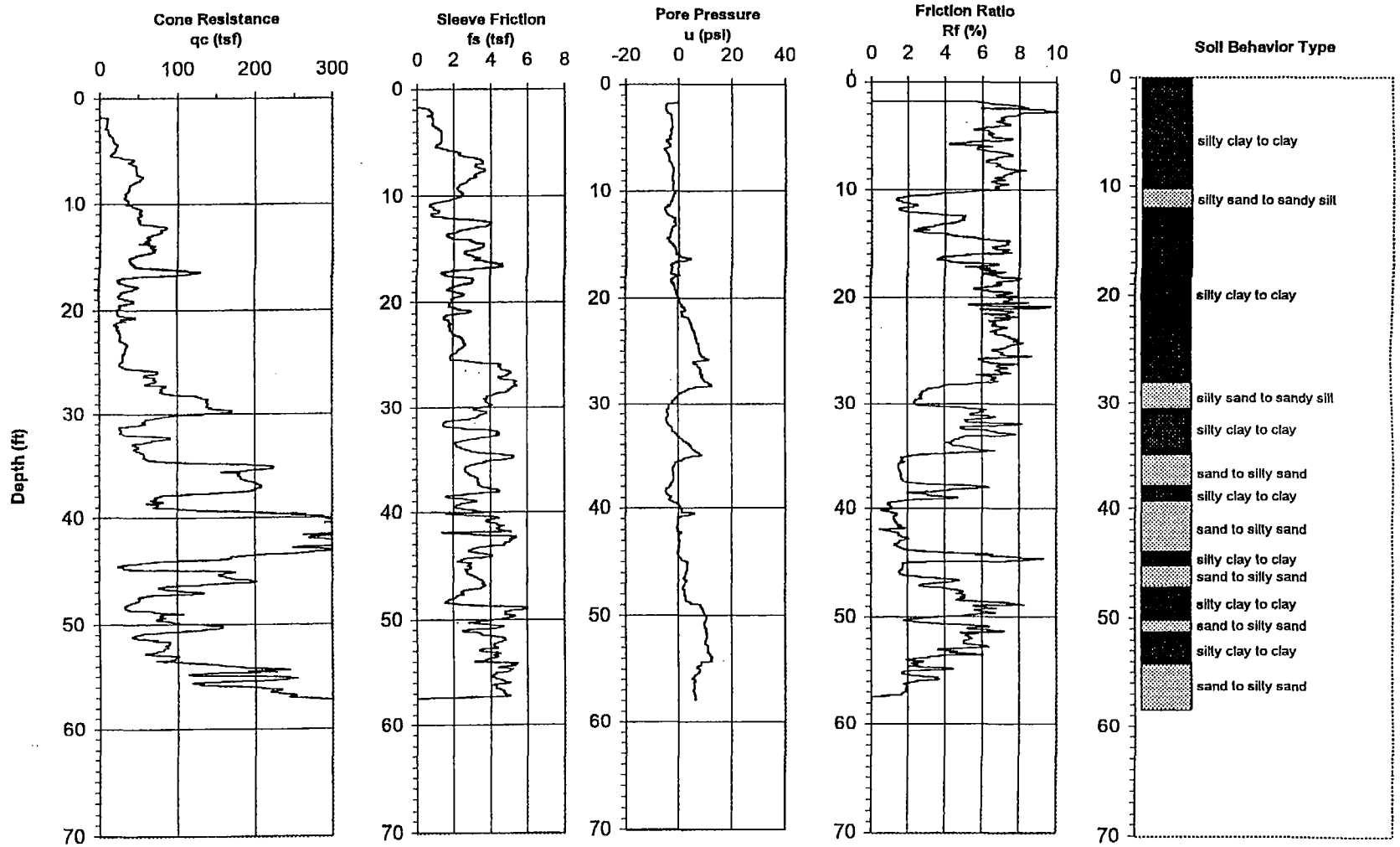
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-4**	**CPT Date :**	**4/3/00**



KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles **Client :** Hart Crowser

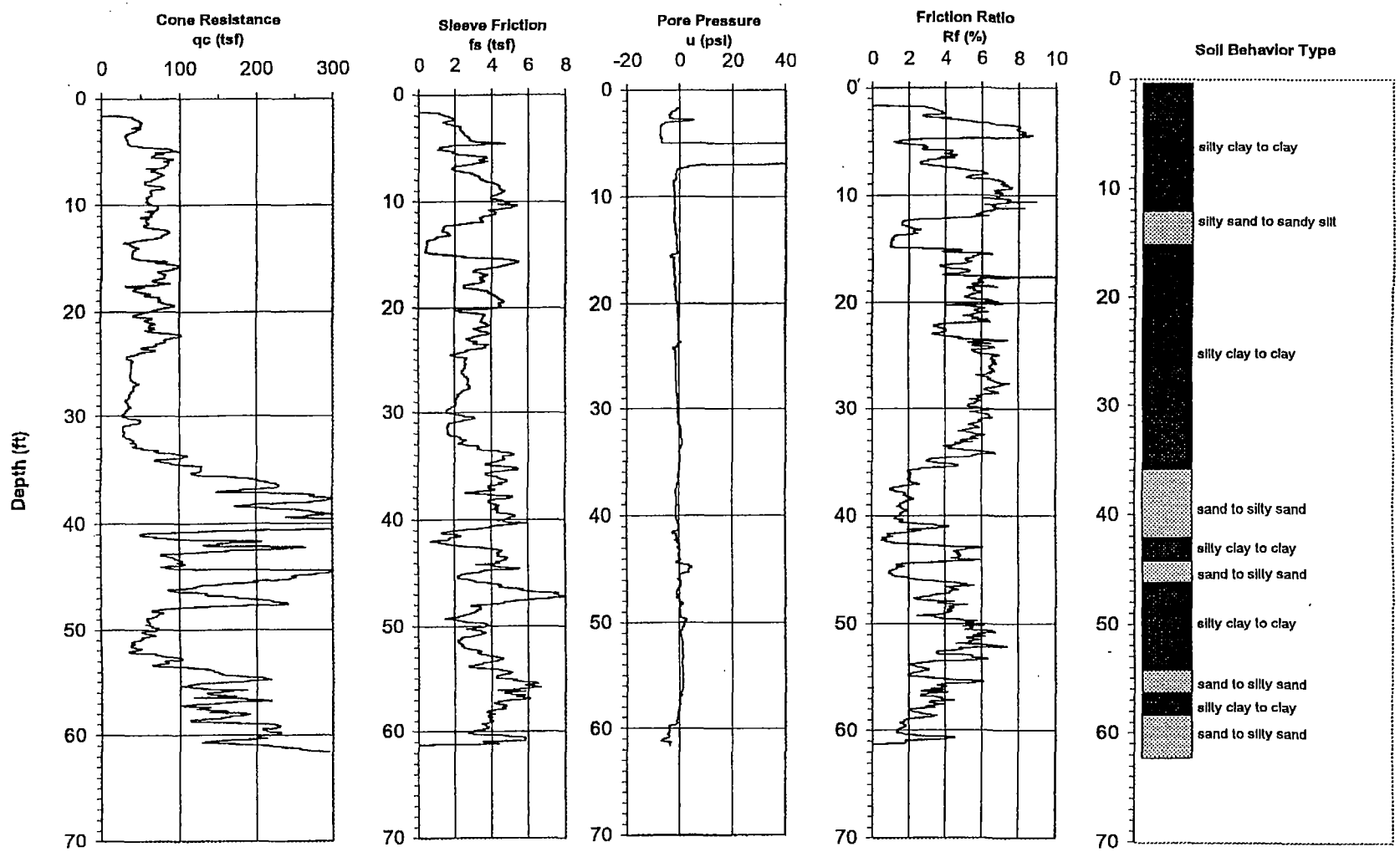
Location : CPT-9 **CPT Date :** 4/5/00



PACCAR 04019

KEHOE TESTING & ENGINEERING

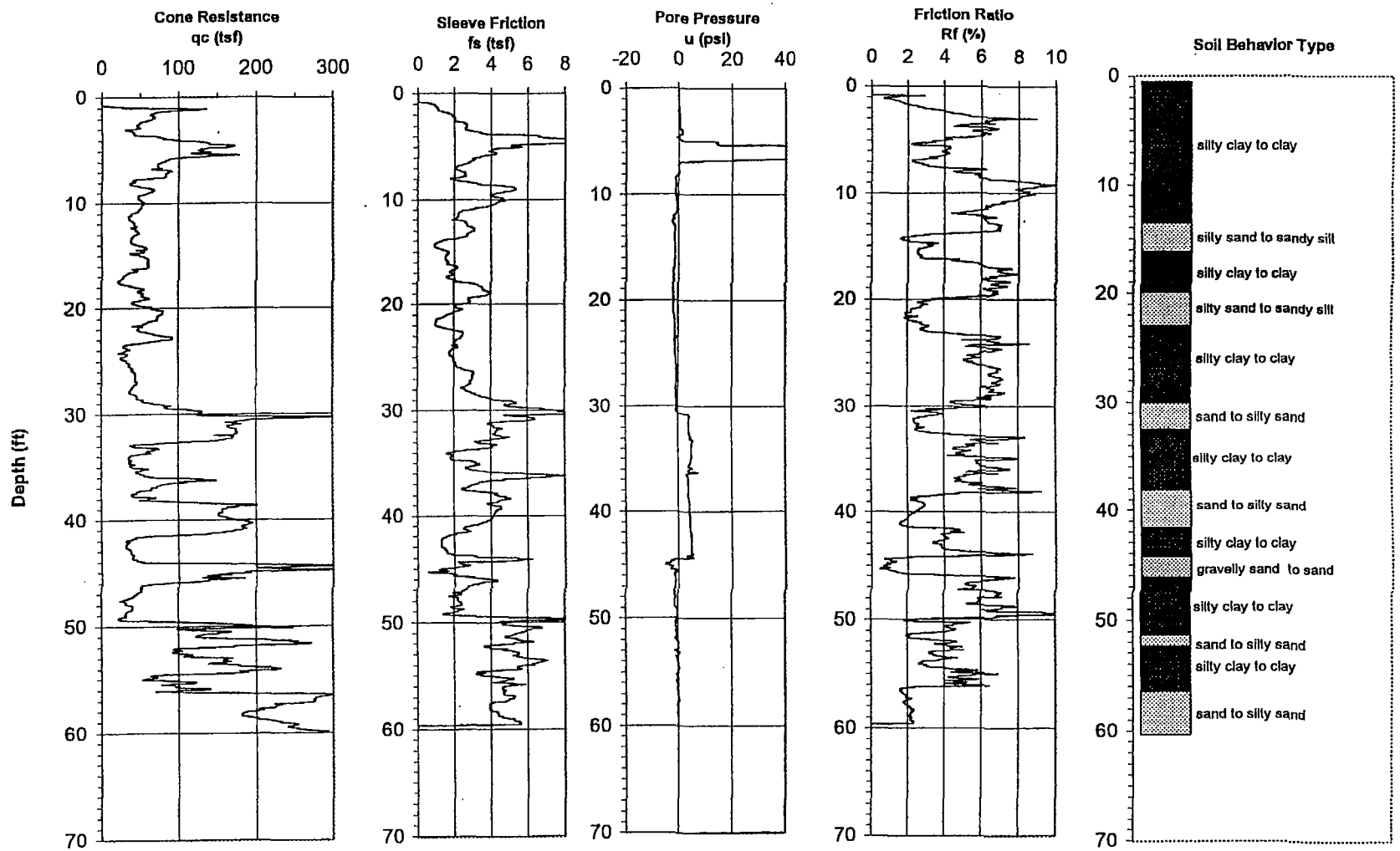
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-10**	**CPT Date :**	**4/6/00**



PACCAR 04020

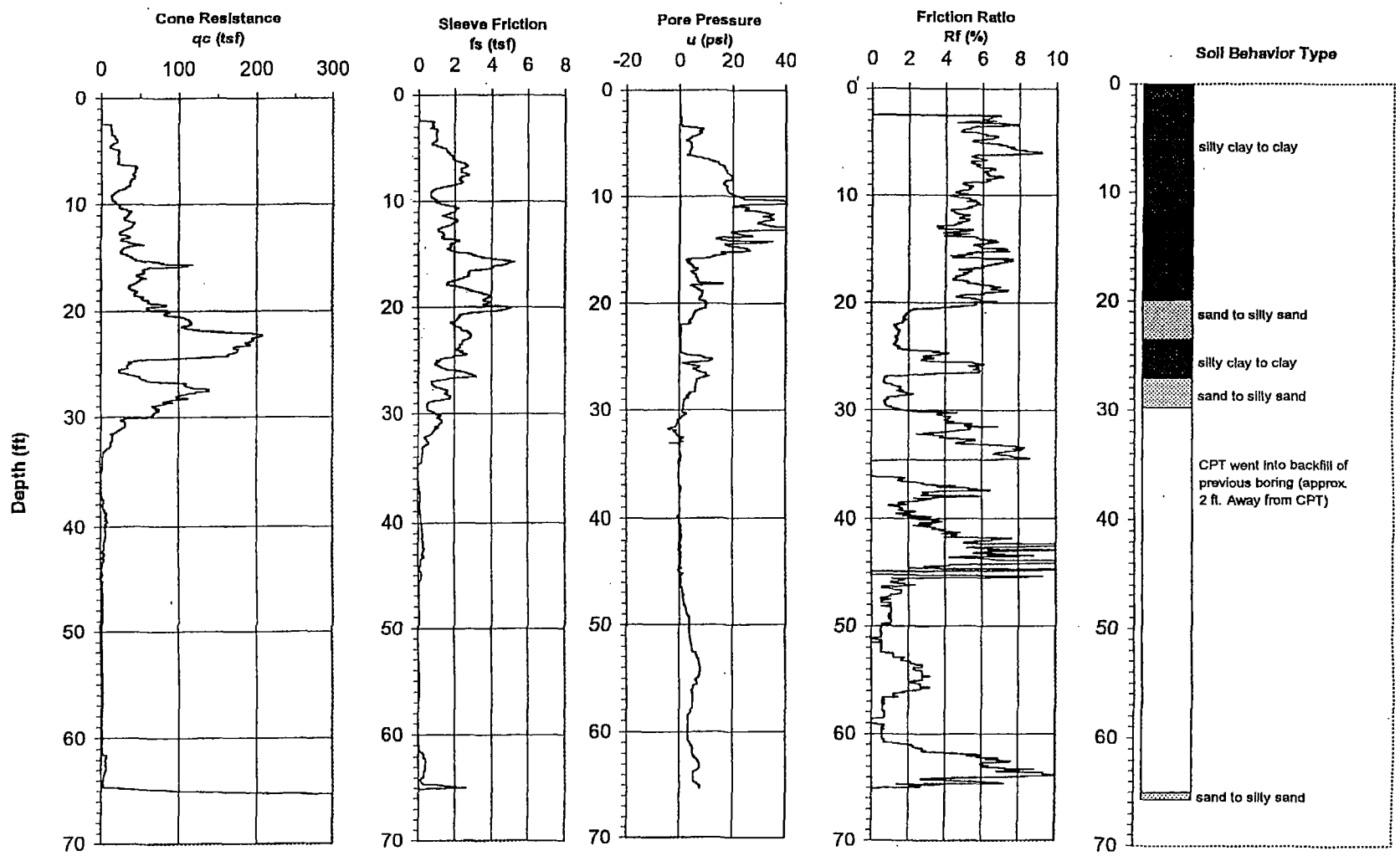
KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-11**	**CPT Date :**	**4/6/00**



KEHOE TESTING & ENGINEERING

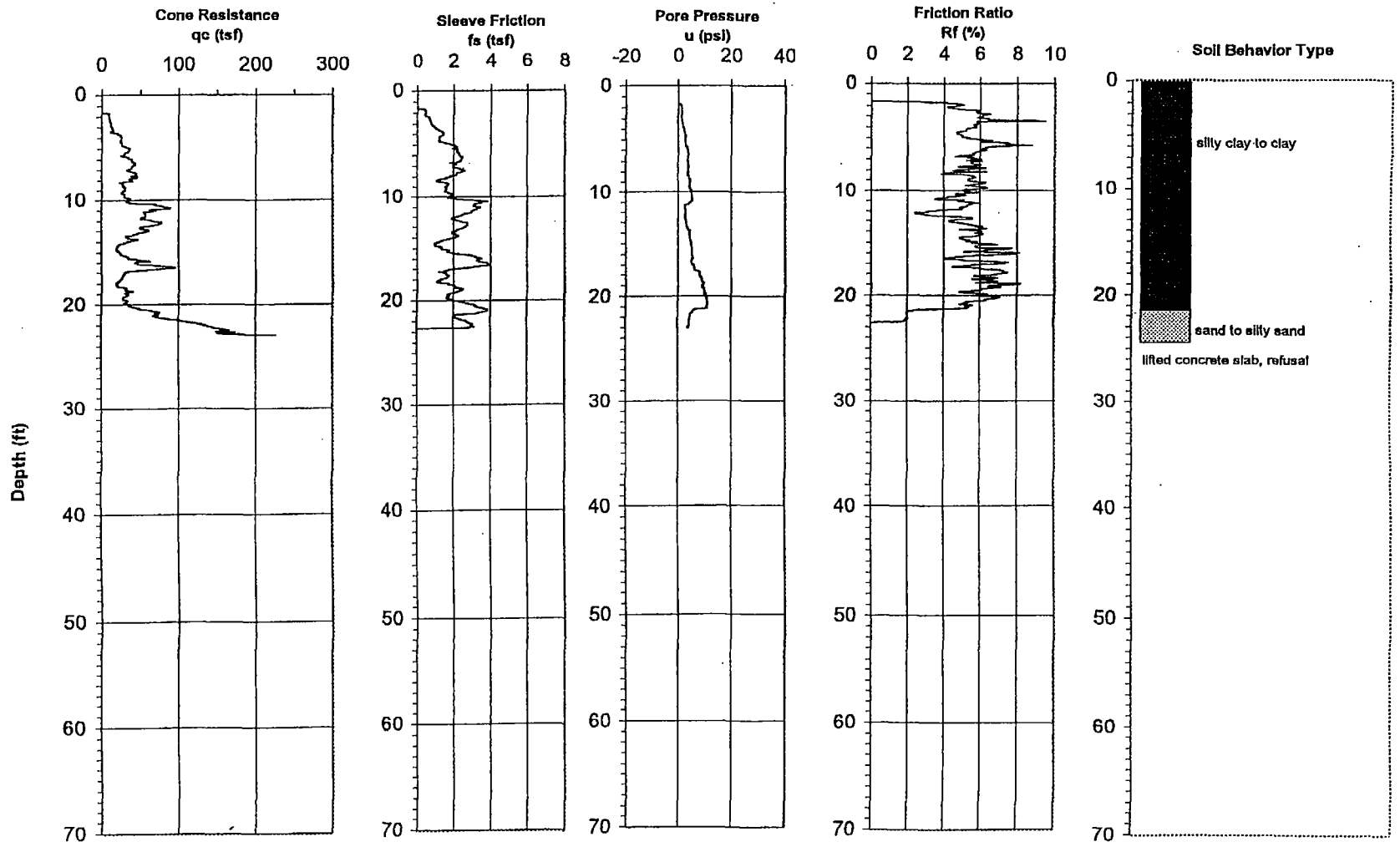
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-12**	**CPT Date :**	**4/10/00**



PACCAR 04022

KEHOE TESTING & ENGINEERING

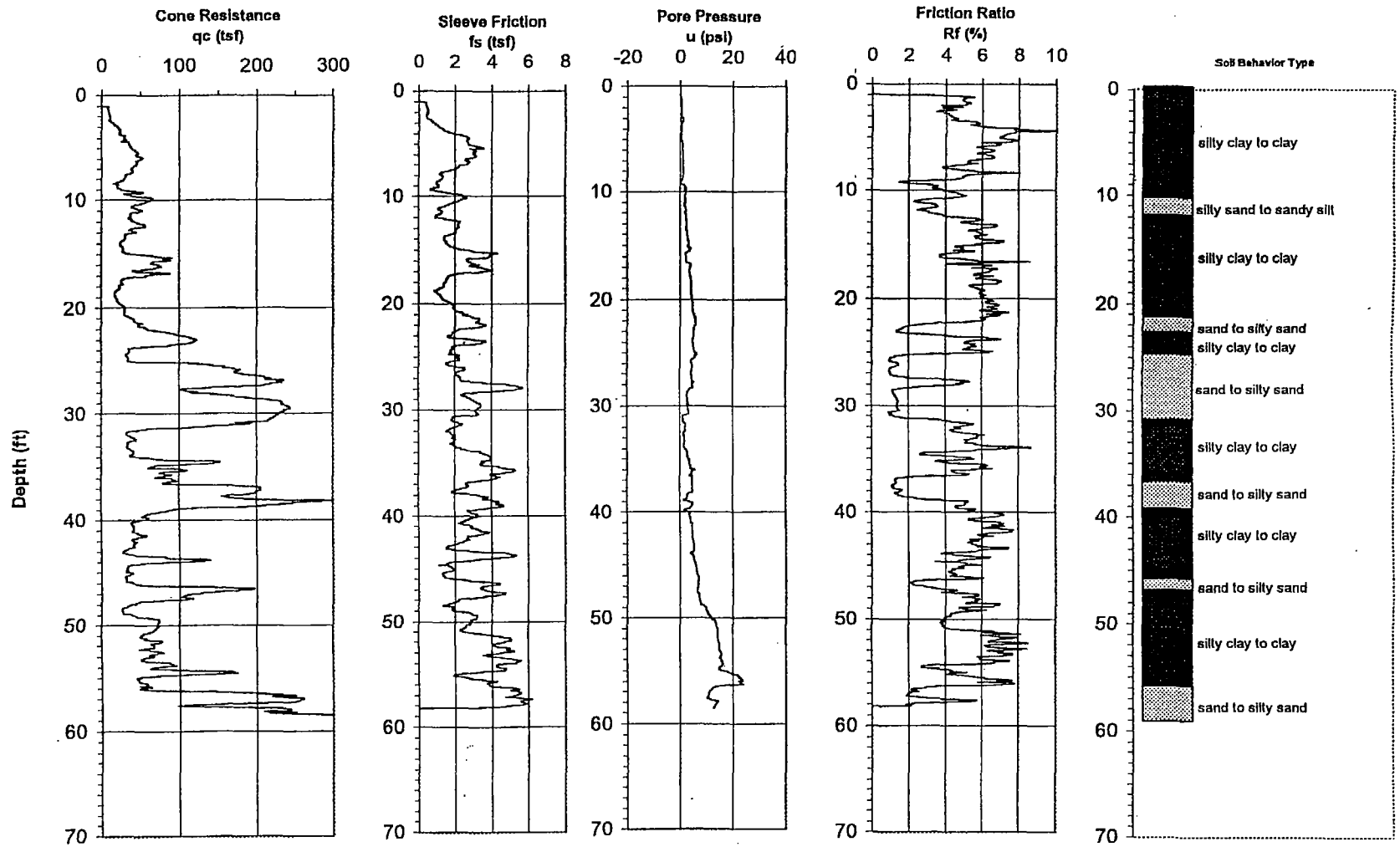
Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-13**	**CPT Date :**	**4/10/00**



PACCAR 04023

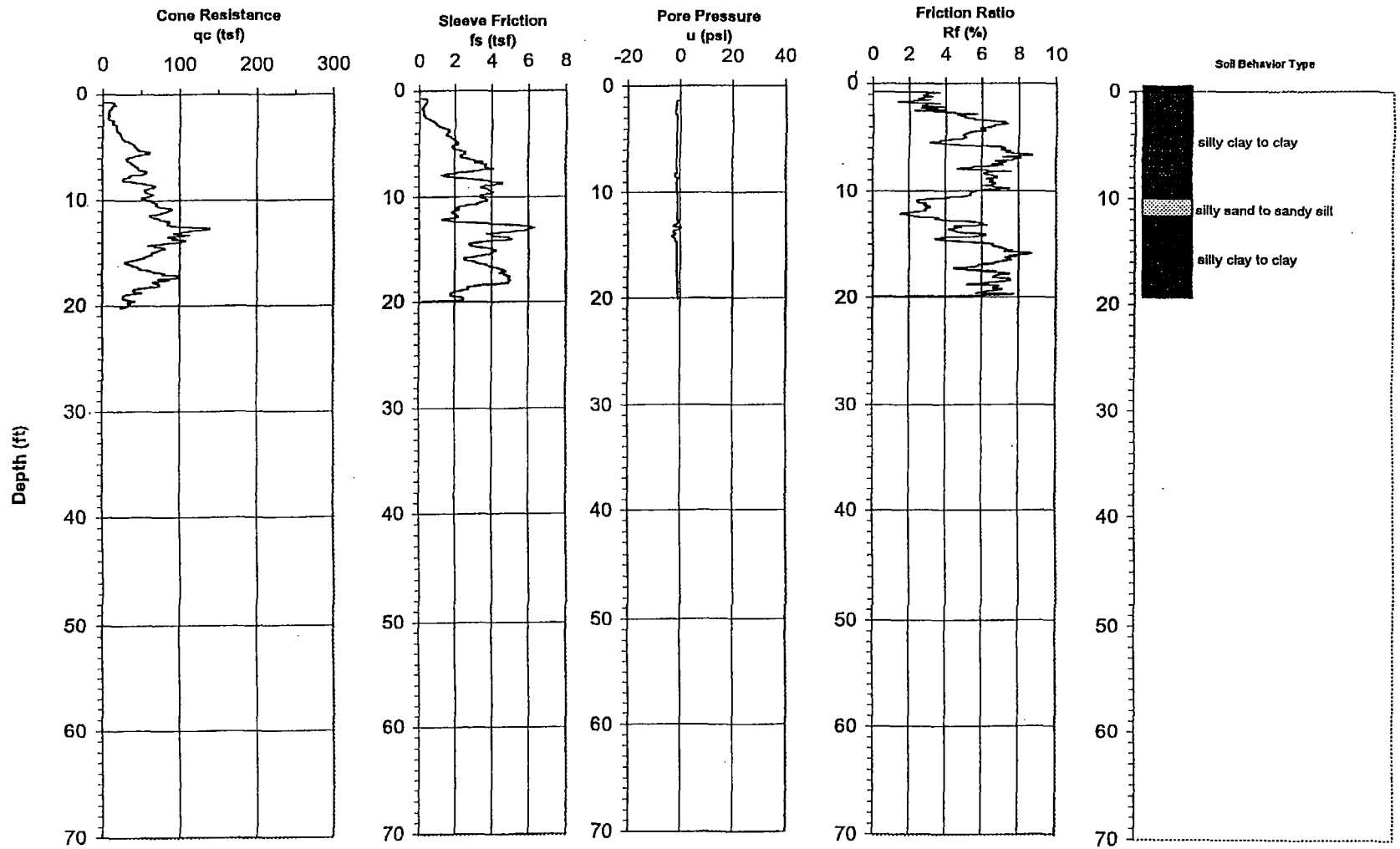
KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-14**	**CPT Date :**	**4/10/00**



KEHOE TESTING & ENGINEERING

Project :	**1206 West 196th St, Los Angeles**	**Client :**	**Hart Crowser**
Location :	**CPT-15**	**CPT Date :**	**4/6/00**



PACCAR 04025

Sample Symbols

- Sample recovery
- No sample recovery
- S Sample retained
- L Sample retained and selected for laboratory analysis

Water Level Symbols

- First encountered groundwater level
- Potentiometric groundwater level

Photoionization Device (PID) Readings

Locations Monitored

- BZ - Breathing zone
- A - Top of auger
- C - Drill cuttings
- S - Sample

Reported in parts per million (ppmv).

ND = non-detect.

All contacts are approximate.

Typical Well Graphic Symbols

- Blank casing in concrete
- Blank casing in cement-bentonite grout
- Blank casing in bentonite
- Blank casing in filter sand
- Slotted casing in filter sand
- Native soil or slough

UNIFIED SOIL CLASSIFICATION SYSTEM (USCS)

MAJOR DIVISIONS				SYMBOLS	TYPICAL DESCRIPTIONS
COARSE-GRAINED SOILS	MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVEL	GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
			GRAVEL WITH FINES	GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		SAND MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SAND	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SAND WITH FINES	SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE-GRAINED SOILS	MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILT and CLAY	LOW LIQUID LIMIT [2]	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
			HIGH LIQUID LIMIT [2]	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

Notes:

1. For a complete description of the Unified Soil Classification System, see "Geotechnical Branch Training Manual Nos. 4, 5, and 6" published in 1986 by the Bureau of Reclamation, Geotechnical Branch, Division of Research and Laboratory Services, Engineering and Research Center, Denver, Colorado.
2. Liquid limit is defined as that moisture content, expressed as a percentage of the dry mass of soil, at which the soil first shows a small but definite shear strength as the moisture is reduced.

Report: HC4+WELL-KEY; File: PACCARTO.GPJ; 9/6/00

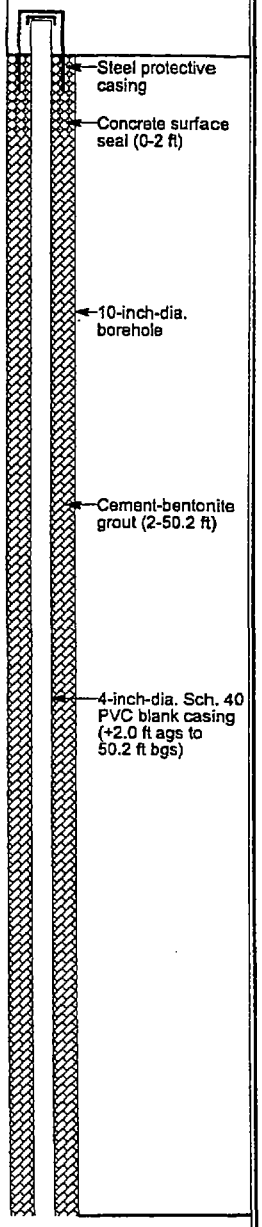
Project: PACCAR
Torrance, California

Project Number: 6905

Key to Log of Boring

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0					Asphalt cap (4 inches)	
					Very dark grayish brown (2.5Y 3/2), clayey SILT, uniform, low plasticity, moist, stiff, no odor, no discoloration	ML
5	S	HCB-5-5'	7 7 8	0 / 175		
					Becomes olive brown (2.5Y 4/4), very stiff	
10	S	HCB-5-10'	7 9 9	0 / 18		
					Becomes olive (5Y 4/4), sugary texture	
15	S	HCB-5-15'	7 12 12	0 / 35		
					Becomes olive (5Y 4/3), micaceous, moist	
20	S	HCB-5-20'	9 12 14	0 / 14		
					Becomes very stiff to hard	
25	S	HCB-5-25'	12 19 14	0 / 20		
					Pale olive (5Y 6/3), silty fine SAND, uniform, well-sorted, well-rounded grains, moist, medium dense, no odor, no discoloration	SM
30	S	HCB-5-30'	10 14 17	0 / 4		



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/25/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 57.5 feet bgs on 8/31/00)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

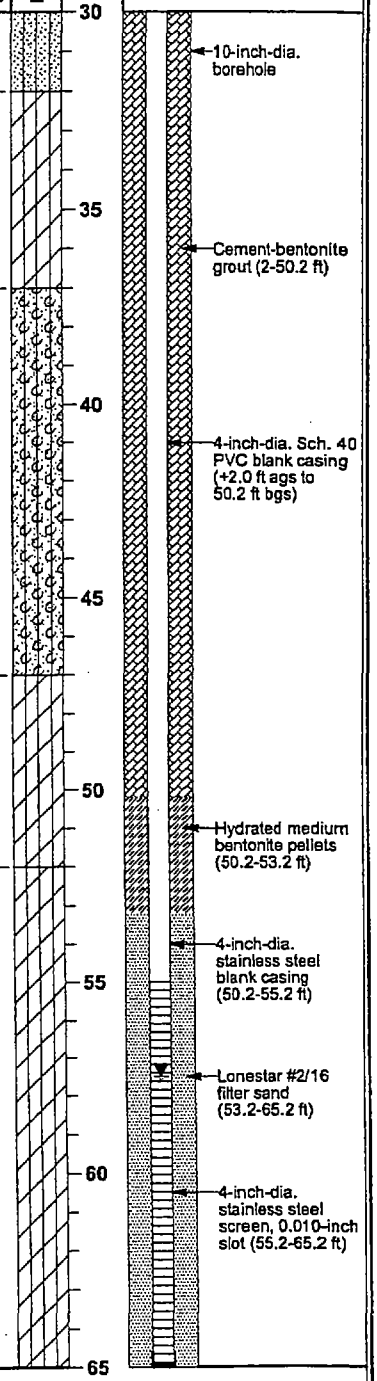
Project Number: 6905

Log of Boring HCB-5 / MW-5

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Pale olive (5Y 6/3), silty fine SAND, uniform, well-sorted, well-rounded grains, moist, medium dense, no odor, no discoloration (continued)	SM
					Olive brown (2.5Y 4/4), clayey SILT, uniform, micaceous, moist, very stiff, no odor, no discoloration	ML
35	S	HCB-5-35'	12 13 17	0 / 7.5		
					Olive (5Y 5/4), fine sandy SILT, shell fragments throughout, moist, very stiff, no odor, no discoloration	ML
40	S	HCB-5-40'	13 12 14	0 / 1.1	Layer of shells, semi-consolidated	
					Sugary texture	
45	S	HCB-5-45'	13 12 14	0 / 0		
					Olive gray (5Y 5/2), clayey SILT, sugary texture, no plasticity, red inclusions, micaceous, moist, very stiff, no odor, no discoloration	ML
50	S	HCB-5-50'	13 14 17	0 / NA		
					Olive (5Y 5/3), clayey SILT, uniform, slight plasticity, micaceous, moist, very stiff, no odor, no discoloration	ML
55	S	HCB-5-55'	10 12 14	0 / 10		
60	S	HCB-5-60'	7 18 14	0 / 4		
					Becomes olive brown (2.5Y 4/4), wet	
65	S	HCB-5-65'	16 14 11	0 / 1.4	**Boring terminated at 65.0 feet bgs.**	



Report: HC4+WELL; File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

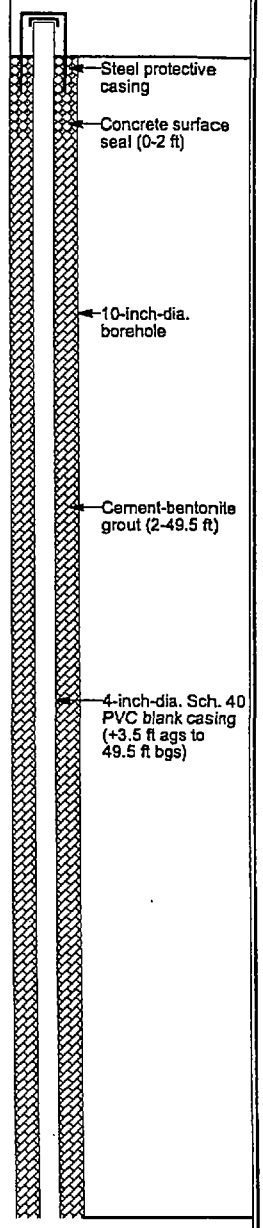
Project Number: 6905

Log of Boring HCB-5 / MW-5

Sheet 2 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0					Asphalt cap (4 inches)	
					Light olive brown (2.5Y 5/4), fine sandy SILT, uniform, moist, stiff, no odor, no discoloration	ML
5	S	HCB-6-5'	6 7 9	0 / 0		
					Becomes very stiff	
10	S	HCB-6-10'	7 10 14	0 / 2.8		
					Becomes olive (5Y 5/3), micaceous	
15	S	HCB-6-15'	10 12 16	0 / 1.5		
					Becomes olive brown (2.5Y 4/4), hard	
20	S	HCB-6-20'	23 20 20	0 / 1.5		
					Becomes light olive brown (2.5Y 5/4)	
25	S	HCB-6-25'	15 20 22	0 / 2.4		
					Becomes olive brown (2.5Y 4/4), very stiff	
30	S	HCB-6-30'	12 15 17	0 / 3.2		



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/25/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 57.6 feet bgs on 8/31/00)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

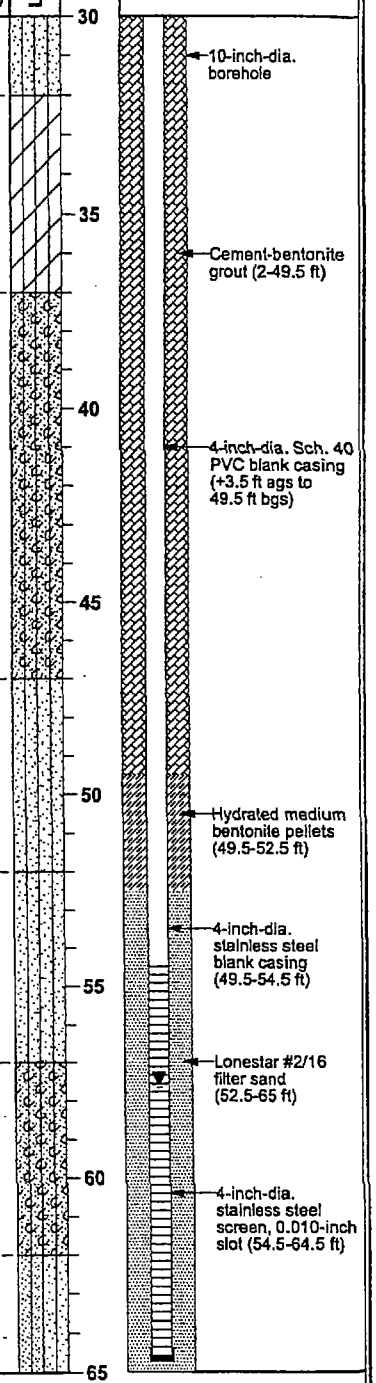
Project Number: 6905

Log of Boring HCB-6 / MW-6

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Olive brown (2.5Y 4/4), fine sandy SILT, uniform, micaceous, moist, very stiff, no odor, no discoloration (continued)	ML
					Olive brown (2.5Y 4/4), clayey SILT, uniform, slight plasticity, micaceous, moist, very stiff to hard, no odor, no discoloration	ML
35	S	HCB-6-35'	17 15 20	0 / 1.5		
					Light olive brown (2.5Y 5/4), silty fine SAND, well-sorted, well-rounded grains, shell fragments to 1/8 inch, moist, medium dense, no odor, no discoloration	SM
40	S	HCB-6-40'	10 12 12	0 / 0		
					Becomes olive (5Y 5/4)	
45	S	HCB-6-45'	7 12 14	0 / 198		
					Olive gray (5Y 5/2), sandy SILT, sugary texture, red inclusions, micaceous, moist, very stiff, no odor, no discoloration	ML
50	S	HCB-6-50'	7 8 19	0 / 2.1		
					Olive (5Y 5/3), sandy SILT, uniform, red streaking throughout, micaceous, moist, very stiff, no odor, no discoloration	ML
55	S	HCB-6-55'	8 8 10	0 / 12.5		
					Light olive brown (2.5Y 5/4), silty fine SAND, uniform, small shell fragments, micaceous, saturated, medium dense, no odor, no discoloration	SM
60	S	HCB-6-60'	12 11 12	0 / 0		
					Light olive brown (2.5Y 5/4), silty fine SAND, lenses of sandy silt and red striations through (similar to bedding planes), saturated, medium dense, no odor, no discoloration	SM
65	S	HCB-6-65'	7 10 12	0 / 0	**Boring terminated at 65.0 feet bgs.**	



Report: HC4+WELL; File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

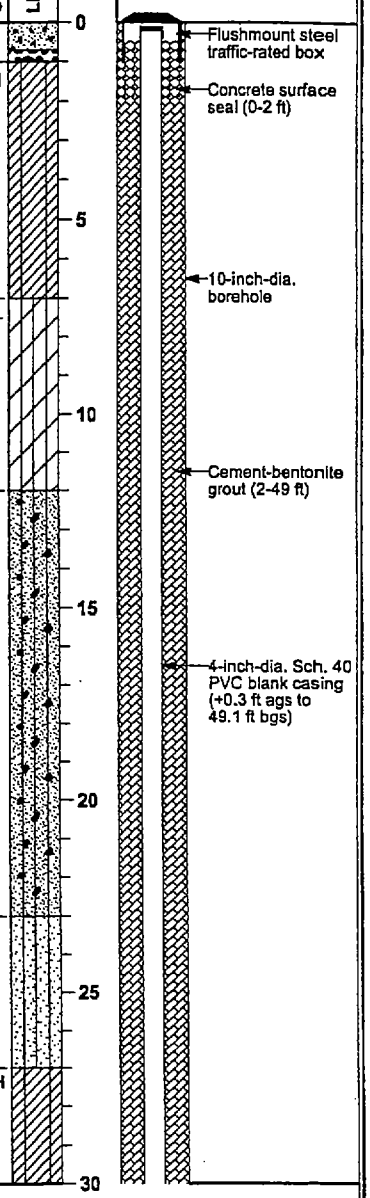
Project Number: 6905

Log of Boring HCB-6 / MW-6

Sheet 2 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
0				0 / 0	Concrete (8 to 10 inches) over wet pea gravel (2 inches)	
					Olive brown (2.5Y 4/4), silty CLAY, uniform, plastic, moist, stiff, no odor, no discoloration	CL/CH
5	S	HCB-7-5'	6 7 9	0 / 0		
					Olive (5Y 4/3), clayey SILT, uniform, slight plasticity, some organics, micaceous, moist, stiff, no odor, no discoloration	ML/OL
10	S	HCB-7-10'	5 8 9	0 / 0		
					Olive (5Y 4/3), sandy SILT, angular rock fragments to 1/8 inch diameter, some organics, micaceous, moist, very stiff, no odor, no discoloration	ML
15	S	HCB-7-15'	8 13 14	0 / 0		
					Becomes hard	
20	S	HCB-7-20'	15 20 27	0 / 0		
					Black (2.5Y 2/0), sandy SILT, lithology difficult to distinguish due to probable contamination, moist, hard, heavy hydrocarbon odor and discoloration	ML
25	S	HCB-7-25'	12 20 23	0 / 2.5		
					Very dark gray (2.5Y 3/0), silty CLAY, uniform, plastic, moist, very stiff, hydrocarbon odor and discoloration	CL/CH
30	S	HCB-7-30'	8 9 10	0 / 5.3		



NOTES:

1. Refer to Key to Log of Boring for explanation of descriptive terms and symbols.
2. Soil descriptions and stratum lines are interpretive, and actual changes may be gradual.
3. Descriptions apply only at the specific boring location and time the boring was advanced, and are not representative of subsurface conditions at other locations or times.

DRILLING PROCESS NOTES:

Date Drilled:	8/24/00
Logged By:	Mauricio Escobar
Drilling Contractor:	THF Drilling
Drilling Method:	Hollow-Stem Auger
Sampling Method:	Modified California with 6-inch brass tubes
Water Level ATD:	Not recorded
Total Depth:	65.0 feet
Borehole Completion:	Monitoring well installed (water level at 55.9 feet bgs on 8/31/00)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/8/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-7 / MW-7

Sheet 1 of 2

HARTCROWSER

Downhole Depth (ft bgs)	Samples: Interval Retained	Samples: Number	Samples: Blows per 6 inches	Samples: Ambient / Headspace PID (ppmv)	Geologic Description	Unified Soil Classification Code (USCS)
30					Very dark gray (2.5Y 3/0), silty CLAY, uniform, plastic, moist, very stiff, hydrocarbon odor and discoloration (continued)	CL/CH
					Black (2.5Y 2/0), sandy SILT, lithology difficult to distinguish due to probable contamination, moist, hard, heavy hydrocarbon odor and discoloration	ML
			11 20			
35	S	HCB-7-35'	21	0 / 4.8		
					Shell layer; chunks of consolidated shells	
					Becomes very stiff, with shell fragments throughout	
			20 15			
40	S	HCB-7-40'	16	0 / 2.1		
					Olive (5Y 4/4), sandy SILT, uniform, micaceous, moist, stiff, no odor, no discoloration	ML
			7 7			
45	S	HCB-7-45'	8	0 / 2.4		
					Olive gray (5Y 5/2), silty CLAY, low plasticity, red clay inclusions, micaceous, very moist, no odor, no discoloration	CI
			11 10			
50	S	HCB-7-50'	11	0 / 0		
					Silty sand lenses	
					Becomes olive (5Y 5/3), hard	
			18 23			
55	S	HCB-7-55'	18	0 / 4.1		
					Olive brown (2.5Y 4/4), silty SAND, uniform, well-sorted, well-rounded grains, biotite mica, wet, medium dense, slight solvent odor, no discoloration	SM
			6 8			
60	S	HCB-7-60'	10	0 / 5.8		
			7 7			
65	S	HCB-7-65'	11	0 / 5.1	Boring terminated at 65.0 feet bgs.	

Lithology

WELL CONSTRUCTION

- 10-inch-dia. borehole
- Cement-bentonite grout (2-49 ft)
- 4-inch-dia. Sch. 40 PVC blank casing (+0.3 ft ags to 49.1 ft bgs)
- Hydrated medium bentonite pellets (49-52 ft)
- 4-inch-dia. stainless steel blank casing (49.1-54.1 ft)
- Lonestar #2/16 silica filter sand (52-65 ft)
- 4-inch-dia. stainless steel screen, 0.010-inch slot (54.1-64.1 ft)

Report: HC4+WELL; File: PACCARTO.GPJ; 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-7 / MW-7

Sheet 2 of 2

HARTCROWSER

Appendix B

APPENDIX B

SAMPLING PROGRAM

TABLE 1
Sampling Program for Additional Delineation of Potentially Impacted Areas
Former Trico Facilities
Torrance, California

Sampling Locations to Delineate Chlorinated Hydrocarbons at Trico Facilities

Sampling Location	Location of Sample	Boring Depth (feet bgs)	Analytical Method (# of Samples Analyted)					Rational for Analysis *
			EPA 8260B	EPA 8270	EPA 8080	EPA 418.1	EPA 6000/7000	
BL-01	Adjacent to former AST (Northwest)	60	2	1	1	N/A	1	Tank contents unknown, probably solvents also screen for semi-volatiles, PCBs and metals
BL-02/MW-8	Adjacent to former AST (Northwest)	60	6	1	1	N/A	1	Tank contents unknown, probably solvents also screen for semi-volatiles, PCBs and metals
BL-03	Adjacent to former AST (Northwest)	60	2	1	1	1	N/A	Tank contents unknown, probably solvents also screen for semi-volatiles, PCBs and metals
BL-04	Adjacent to former AST (Northwest)	60	2	1	1	1	N/A	Tank contents unknown, probably solvents also screen for semi-volatiles, PCBs and metals
BL-05/MW-13	Adjacent to former AST (Central)	60	6	1	1	N/A	N/A	Contents unknown, screen for key chemicals of concern
BL-06	Adjacent to former AST (Central)	60	2	1	1	N/A	N/A	Contents unknown, screen for key chemicals of concern
BL-07	Adjacent to Clarifier	60	4	1	1	1	1	Clarifier may have received a variety of chemicals. Screen for solvents, semi-volatiles, PCBs and metals
BL-08/MW-9	Adjacent to former AST (Central)	60	6	1	1	N/A	1	Contents unknown, screen for key chemicals of concern
BL-09/MW-10	Adjacent to former paint tank	60	6	1	1	1	1	Paint tank, solvents are a concern, screen for semi-volatiles and PCBs also
BL-10	Adjacent to former paint tank	60	2	1	1	1	N/A	Paint tank, solvents are a concern, screen for semi-volatiles and PCBs also
BL-11/MW15	Adjacent to former paint tank	60	6	1	1	N/A	N/A	Paint tank, solvents are a concern, screen for semi-volatiles and PCBs also
BL-12/MW-12	Near TCE AST	60	6	1	1	N/A	N/A	TCE tank, solvents are a concern, screen for semi-volatiles and PCBs also
BL-13	Near TCE AST	60	2	1	1	1	1	TCE tank, solvents are a concern, screen for semi-volatiles and PCBs also
BL-14/MW-11	Adjacent to Runoff Sump	60	6	1	1	N/A	1	Solvents key concern
BL-15	Adjacent to former Cesspool	60	2	1	1	1	N/A	Solvents key concern
BL-16	Adjacent to former Vehicle Maintenance	60	4	1	1	1	1	Vehicle maintenance area, solvents, metals, TPH
BL-17/MW-14 (optional)	West of Building A	60	6	N/A	N/A	N/A	N/A	Solvents are the issue
Total Samples			70	16	16	8	8	

Notes:

1. Based on field screening and mobile lab results upto eight (8) borings will be converted to temporary monitoring wells. We have assumed that six (6) samples will be analyzed from those borings.
2. *One sample which contains highest concentration per EPA 8260B will also be analyzed by EPA 8270.*
3. One sample which contains highest concentration per EPA 8260B will also be analyzed by EPA 8080.
4. One sample which contains highest concentration per EPA 8260B will also be analyzed by EPA 418.1 and 6000/7000.

N/A - Not Analyzed.

BL - Boring Location

MW - Temporary Monitoring Well

* The maintenance area at the Site is the source of chlorinated solvents in groundwater. We are also screening some locations for metals, TPH, semi-volatile organics and metals, based on general Site issue.

Appendix C

APPENDIX C

EN CORE PROCEDURES/FORMS/LETTER

EPA 5035 – Sampling / Handling Procedures

Samples are collected using an En Core® (En Novative Technologies) sampling device ("T-Handle") and En Core samplers.

For soil samples obtained from acetate sleeves (collected by Geoprobe):

1. Cut the acetate sleeve with a pre-cleaned stainless steel PVC-pipe cutter at the desired soil sampling interval; and
2. Immediately collect soil samples from the open ends of the acetate sleeves using the "T-Handle" and 5-gram En Core samplers.

For soil samples obtained using a hand-auger:

1. Hand-auger to the desired soil sampling interval; and
2. Push the 5-gram En Core sampler directly into the soil contained within the auger.

Each En Core sample is collected in triplicate. Following sample collection:

1. The En Core samples are sealed on both ends, labeled, and placed into their dedicated En Core foil zip-loc bags;
2. The En Core bags are then labeled, sealed with a custody seal, and transferred into larger zip loc bags (which contains all three replicates per soil sample) and placed in an ice-chilled cooler;
3. At the end of each sampling day, the coolers are transported to the analytical laboratory under strict chain-of-custody protocols; and
4. American Analytics analyzes the samples within 48 hours from the time of collection.

Laboratory Equipment

Analysis is performed in a closed-system auto-sampler capable of providing mechanical stirring and heating of the sample during the purge process.

This form can be used for reporting analyses of volatile organic compounds, semi-volatile, petroleum hydrocarbons, PCBs, pesticides, herbicides, and other organics.

Page 1 of 3: Analytical Result

A. Header Information

1. After "Project No:", enter the client's project number (from cover page 1). This number is required on every page of the report.

2. After "METHOD", enter the analytical method used. (e.g., EPA 8260, or EPA method 8021).

3. After "REPORTING UNIT", enter the appropriate reporting unit. The units ug/L for water samples and ug/Kg for soil samples are recommended for volatile analyses. The units mg/L and mg/Kg are recommended for TPH/semi-volatile analyses.

4. After "DATE ANALYZED", enter the date on which the sample is analyzed.

5. After "DATE EXTRACTED", enter the date on which the sample is extracted with solvent. If no solvent is used (e.g., purge and trap without organic solvent extraction), enter "N/A" (Not Applicable).

6. After "LAB SAMPLE I.D.", enter the I.D. number the laboratory assigned to each sample.

7. After "CLIENT SAMPLE I.D.", enter the I.D. number the client used when the sample was collected.

8. After "EXTRACTION SOLVENT", enter the type of solvent used for extraction before purge and trap or injection into instrument.

9. After "EXTRACTION METHOD", enter EPA Method used for extraction. (e.g., EPA 3550). For VOC sample which is extracted with methanol, enter the method used. (e.g., EPA 5030 for EPA 8021, EPA 8260 for the GC/MS methods.)

10. After "DILUTION FACTOR", enter the dilution factor for each sample. If a sample is not diluted (e.g., direct purge and trap of water sample), enter "1" as dilution factor.

11. If more than one page is needed, complete the header information for all samples analyzed on the subsequent pages. The method blank does not need to be repeated on each subsequent page. If more than one method blank is analyzed, report each method blank with the samples to which it applies for validation purposes. The column widths may he changed to put analysis results for more samples on each page.

B. Analytical Results

1. Under "COMPOUND", list each analyte which the samples were tested for. List the analytes (alphabetical order or elution order is recommended). EPA Methods analyzed in series (e.g., EPA 8015 (modified) may be listed on the same results page. For hydrocarbons which cannot be positively identified as a specific product, indicate the type of hydrocarbons detected (e.g., hydrocarbons in the range of C23-C32).

2. Under "CRDL" (Contract Required Detection limit), list the detection limit used for reporting each analyte. If sample has to be diluted for one constituent, do not automatically adjust the CRDL for other constituents by the same dilution factor, and report results of other constituents under the CRDL without dilution.

3. In each column for the method blank and the samples, report all analytes detected above the CRDL. Do not subtract blank or adjust sample results for blank contamination. Any analyte not detected above the CRDL should be reported as "<CRDL value" (whatever the CRDL value is after taking into account dilution factor, e.g., <0.5). Samples must show the final results calculated with dilution factor. (e.g., sample after 10 times dilution gives analysis result of 10 ppb. Then the final result reported for this sample should be 100 ppb.) The CRDL for some analytes may be at or near the laboratory method detection limit. However, do not flag any data as estimated or below certain confidence levels.

4. If the list of analytes continues on to the second page, repeat the analytical method, reporting unit, laboratory sample identification and client sample identification on the second page in the spaces provided. Continue with the reporting of detection limits and analytical results as on the first page.

5. If samples are analyzed under different dilution factor, use separate column to report. Report a result as "non-detected" (ND) only for samples analyzed <u>without</u> dilution.

6. For SURROGATE, list surrogate compounds added to blank and samples. Report Spike Concentration (SPK CONC) of added surrogate, Acceptable % Limits (ACP%) for each surrogate, and % Recovery (%RC) of each surrogate in blank and each sample. If the analyte list lasts only one page, place the surrogate box at the bottom of the first page. If the analyte list continues on to other pages, place the surrogate box at the bottom of the last page.

<u>Page 2 of 3: QA/QC Report</u>

I. Calibration Standard

A. Initial Calibration (IC)

1. The initial calibration format provided or direct printouts from analytical instruments can be

used as an alternative of the IC format.

2. No matter which IC format (RWQCB form or direct instrument printouts) is used, provide the following data:

Date performed:	Date the IC was performed most recently and applied in calculation of the sample results.
Standard Supply Source:	Source of the standard used in IC.
Instrument I.D.:	ID or name of the instrument used for IC, QA/QC, and sample analyses.
Analytical Method:	EPA method used in IC, all QA/QC, and sample analyses.
Date of source:	Date when standard for IC was received or prepared in-house.
Lot Number:	The lot number of the standard used for IC.
Compound:	Name of compounds in IC.
Detector:	Detector used for analysis of the listed compound.
RT:	Retention time of listed compound.
Mass/Conc:	Injected mass or concentration of the listed compound. List all five masses or concentrations. Unit must be given (e.g., ng for mass and ug/L for concentration). If concentration is used, volume of standard injected must be reported.
Area:	Area count of each concentration level.
RF:	Response factor of each concentration level.
RF(ave):	Average RF.
SD(n-1):	Standard deviation with (n-1) degree of freedom.
%RSD:	% relative standard deviation.

B. Continuing Calibration (CC) (Daily Mid-point Calibration)

1. The CC format provided or direct printouts from analytical instruments can be used as an alternative of the CC format.

2. No matter which CC format (RWQCB form or direct instrument printouts) is used, provide the following data:

Compound:	Names of compounds in CC.
Detector:	Same as above in (A) Initial Calibration.
RT:	Same as above in (A) Initial Calibration.
Mass/Conc:	Same as above in (A) Initial Calibration.
Area:	Same as above in (A) Initial Calibration.
RF:	Same as above in (A) Initial Calibration.
%DIFF:	Percent difference between RF of continuing calibration and RF(ave) of initial calibration.
ACP RGE	

%DIFF: Acceptable range for %DIFF.

Page 3 of 3: QA/QC Report (Continued)

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

1. Under "DATE PERFORMED", enter the date that MS/MSD is performed, which must be the same as the batch of samples that are analyzed.

2. Under "BATCH #", enter laboratory batch number associated with samples.

3. Under "LAB SAMPLE I.D.", enter the name or number of laboratory sample which is used for MS/MSD analyses.

4. Under "Analytical Method", enter the EPA Method and circle a reporting unit. The EPA Method and reporting unit must be the same as that reported for the samples.

5. Circle one to indicate unit.

Provide the following data in the table:

Analyte:	The spiking analytes in sample.
Sample Result:	The original sample result associated with the spiking analytes.
Spike Conc:	MS concentration of added analyte in sample.
MS:	Result of MS.
%MS:	% recovery for MS.
Spike Conc (Dup):	MSD concentration of added analyte in sample.
MSD:	Result of MSD.
%MSD:	% recovery for MSD
RPD:	Relative percent difference between MS and MSD
MS/MSD LIMIT:	Acceptance % limit for MS
RPD LIMIT:	acceptance limit for RPD

If the original sample results are "<CRDL" without dilution, enter "0" for sample result on this MS/MSD table.

III. Laboratory Control Sample (LCS)

1. After "DATE PERFORMED", enter the date LCS is analyzed, which must be the same as the batch of samples that are analyzed.

2. After "ANALYTICAL METHOD", enter EPA method used in LCS, which must be the same method used in QA/QC and sample analyses.

3. After "STANDARD SUPPLY SOURCE", enter source of the LCS standard.

4. After "DATE OF SOURCE", enter date when standard is used for LCS is received or prepared in-house.

5. After "INSTRUMENT I.D.", enter lab instrument I.D. for the LCS run.

6. After "LOT NUMBER", enter the lot number of the LCS standard.

7. After "LAB LCS I.D.", enter the laboratory ID number assigned to LCS.

8. Circle one to indicate unit.

Provide the following data in the table:

Analyte:	The LCS analyte.
Spike Conc:	Concentration of LCS analyte.
Result:	Result for each analyte.
%Recovery:	% recovery for LCS.
ACP %REC LIMIT:	Acceptance limit for LCS % recovery.

IV. General Reporting Requirements

1. Chromatograms, raw data on analysis, copy from logbooks, extraction logs, and other laboratory data relating to sample results are not required with report, but must be submitted upon request.

2. Workplan or monitoring program for a specific project may require additional site-specific analytes and/or conditions.

3. Use a separate sheet for more information for date of standard supply source, date of preparation, instrument I.D., lot number, etc.

V. General Requirements For Organics

The following requirements are not a replacement or substitution of the EPA method requirements which must be followed by the laboratories. These requirements serve as a specific emphasis or clarification to LARWQCB's QA/QC objectives in addition to EPA method requirements. Laboratories must comply with these requirements.

Sample Condition

The criteria for acceptable sample condition is determined by the method(s) which the samples will be analyzed. The laboratory should try to resolve any sample condition problems before the samples are accepted for analysis. If the problems are beyond being resolved, the samples should be rejected and resampling should be requested.

Subcontracted Samples

Samples subcontracted to another laboratory, which must be certified by ELAP, must also conform to the requirements of this program and results must be submitted by the subcontracted laboratory on this report format.

Target Compounds

The target compounds should be those specified in the method or as required by the LARWQCB.

Volatile organic compounds (VOCs) analysis must include the following compounds as target compounds at a minimum. If other compounds are also expected or detected in samples, they must be included in the target list. GC/MS method (e.g., EPA 8260) and ELCD (electronic conductivity detector)/PID (photoionization detector) in series method (e.g., EPA 8021) must include all target compounds. ELCD method (e.g. EPA 8021) must include all target halogenated compounds. PID method (e.g., 8021) must include all target aromatics.

Halogenated compounds

Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
Dibromochloromethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,1-Dichloroethane (1,1-DCA)
1,2-Dichloroethane (1,2-DCA)
1,1-Dichloroethylene (1,1-DCE)
cis-1,2-Dichloroethene (c-1,2-DCE)
trans-1,2-Dichloroethene (t-1,2-DCE)
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
Methylene chloride (Dichloromethane)
1,1,2,2-Tetrachloroethane
1,1,1,2-Tetrachloroethane
Tetrachloroethene (PCE)
1,1,1-Trichloroethane (1,1,1-TCA)
1,1,2-Trichloroethane (1,1,2-TCA)
Trichloroethene (TCE)
Trichlorofluoromethane (Freon 11)
Dichlorodifluoromethane (Freon 12)
Vinyl chloride (VC)

Aromatics

Benzene
Ethyl benzene
Toluene
m,p-Xylenes
o-Xylene

CRDL

The detection limits should be those required by the LARWQCB, as specified in the assessment workplan/monitoring program or as specified in EPA methods used. Lower detection limits than these specified below can be required based on site-specific needs. If CRDL cannot be achieved due to matrix problem, laboratory must provide a written explanation and propose a reasonable CRDL under the situation.

CRDLs for VOCs must be 1 ug/L or 2 ug/Kg except for the following compounds. This low CRDLs are applicable to the samples with no detectable VOCs or low levels of VOCs. If sample needs to be diluted due to high contamination, see section concerning dilution in sample analysis requirements.

CRDL of 0.5 ug/L or 1.0 ug/Kg is required for these following compounds because MCLs or Action limits (AL) for these compounds are low as shown.

	MCL	AL
Benzene	1.0	
Carbon tetrachloride	0.5	
1,2-Dichloroethane	0.5	
1,3-Dichloropropene	0.5	
Dichlorodifluoromethane(Freon 12)		1.0
Vinyl chloride	0.5	

CRDL of 100 ug/L or 100 ug/Kg will be acceptable for following compounds.

Acetone
Acrolein
Acrylonitrile
Methyl Ethyl Ketone (2-butanone)
Methyl Isobutyl Ketone (4-Methyl-2-pentanone)

CRDL shall be 100-500 ug/L or 500-5000 ug/Kg for petroleum hydrocarbons depending on type of hydrocarbons to be tested (e.g., gasoline, jet fuel, diesel, etc.).

Analysis Methods

1. For VOCs, if the samples have never been analyzed before (the type of compounds present is unknown), at least 10 % of samples from each site (or a minimum one sample if total samples are less than 10) should be analyzed using GC/MS method (e.g., EPA 8260B) first. The rest of samples can then be analyzed with non-GC/MS methods (e.g., EPA 8021) if desired.

2. Laboratory must report the number of tentative identified compounds and estimated results if possible for those samples analyzed by GC/MS method as required by Item 1 above.

3. If the GC/MS method analysis shows the presence of compounds that cannot or will not be detected by non-GC/MS method, then all the samples shall be analyzed by GC/MS method.

4. If the compounds present are known from previous analyses, the samples can be analyzed by either non-GC/MS or GC/MS method.

5. If the PID/ELCD in series method (e.g., EPA 8021) is used, the method must be reported as such (e.g., not reported as 8010/8020).

6. For other organic analyses (e.g., pesticides), confirmation must also be done by GC/MS. If GC/MS cannot confirm the compound due to low level, use second column for confirmation.

Initial Calibration

1. Initial 5 point calibration must be performed for all compounds in the above target list and any expected, required, or detected compound.

2. %RSD must be calculated for each compound and must not exceed 20%.

3. For GC/MS analyses, the %RSD of the Calibration Check Compounds (CCC) must be less than or equal to 30%. The CCC are: 1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene, and vinyl chloride.

4. Average Calibration Factor (CF) or Average Response Factor (RF(ave)) must be used for calculation of all sample results and QA/QC analyses.

5. In terms of practicality during compliance with the above requirements, for GC analyses, the percent relative standard deviation (%RSD) must not exceed 20% for 80% of all analytes calibrated. The %RSD for any analyte must not exceed 35%. However the %RSD for all compounds detected in samples must not exceed 20%.

Continuing Calibration (CC) (Daily mid-point calibration)

1. In terms of practicality during compliance with the requirement, for GC analyses, the percent difference (%DIFF) from initial calibration must not exceed 15% for 80% of all analytes calibrated. The compounds that meet the 15% difference requirement must be the same compounds which meet the %RSD in the initial calibration. The %DIFF for any analyte calibrated must not exceed 35%. However, the %DIFF for all compounds detected

in samples must not exceed 15%.

2. For GC/MS analyses, the %DIFF of CCC must not exceed 20%.

Surrogate

The surrogate(s) used and surrogate recovery acceptance limits should be determined by the EPA Method guidelines. If there are no EPA guidelines, the laboratory can use the appropriate surrogate(s) and the recovery limits should be in a range determined by in-house laboratory control charts. Data for the control charts must be submitted upon request.

Method Blank

The method blank should not show any concentration more than five times (5X) the CRDL for any single target compound. If exceeded, the laboratory should investigate the source of contamination and take corrective actions before proceeding with further sample analysis. Any disclaimer statement such as the following example concerning the blank and interpretation of result will not be acceptable and should not be included in report.

"Results should not be considered reliable unless the sample result exceeds five times (5X) the CRDL or ten times (10X) the blank concentration."

MS/MSD

MS/MSD analyses should be performed for every project (for each site) at a minimum rate of one per 20 samples or per batch, whichever is more often. The spiking analytes used for the MS/MSD analyses should be those required by the LARWQCB. When the spiking analytes are not specified by LARQWCB, the ones specified in EPA methods should be used. If EPA method does not specify, then appropriate ones chosen by the laboratory can be used. If MS/MSD is not required by the method used, MS/MSD may not be required unless specified in workplan.

For VOCs analysis, the following compounds must be included in the spiking for MS/MSD.

Halogenated Compounds:	**Aromatics:**
Chloroform	Benzene
1,1-Dichloroethane (1,1-DCA)	Toluene
1,2-Dichloroethane	MTBE
1,1-Dichloroethylene (1,1-DCE)	
Tetrachloroethylene (PCE)	
Trichloroethylene (TCE)	

The acceptance limit should agree with EPA guidelines for each method used. If there are no EPA guidelines, it may be determined in a range by in-house laboratory control charts. Data for the control charts must be submitted upon request. Trace levels of analyte may be used in

MS/MSD calculations even if reported as non-detected on the report form.

Laboratory Control Sample (LCS)

The LCS analysis must be performed each day that samples are analyzed. The LCS must be obtained from a different supplier or a different lot from the calibration standards. If prepared in-house, it must be prepared from a stock solution different from calibration standards. The LCS should be analyzed in reagent water. It does not have to be matrix matched like the MS/MSD analyses.

The spiking analytes used for the LCS analyses should be those required in the target compound list or those required by the LARWQCB.

The acceptance limits for the LCS for volatile organic analyses are 80%-120%. LCS acceptance limits for other organic analyses should be determined by EPA Method guidelines, or in-house laboratory control charts if there are no EPA Method guidelines for this compound. Data for the control charts must be submitted upon request.

Sample Analysis

All samples must be analyzed to comply with CRDL requirements above. If sample dilution is required due to high concentrations of some compounds, the initial run must be used to calculate the results for constituents that are not affected by the high concentrations so that CRDL can be met for these compounds.

If concentrations of compounds present in samples are known to be high (outside the calibration range) from previous analyses or confirmative information, the samples can be directly diluted and then analyzed. Low CRDL will not be applicable for these samples if they are found to be high. If not, an undiluted sample must be reanalyzed to meet the CRDL requirements.

ACKNOWLEDGEMENTS

The following staff of the California Regional Water Quality Control Board - Los Angeles Region involved to finalize this document: David Bacharowski, Alex Carlos, Rebecca Chou, Yue Rong, Hiam Tan. During the reporting form development and revision, representatives from many regulated laboratories, especially the Association of California Testing Laboratories (ACTLabs), and the California Health Department Environmental Laboratory Accreditation Program (ELAP), provided valuable comments that make the improvement of the form possible.

Project No:_____ (RWQCB LabForm10A;Ver6/00)

ANALYTICAL RESULT FOR ORGANICS

METHOD: **REPORTING UNIT:**

DATE ANALYZED						
DATE EXTRACTED						
LAB SAMPLE I.D.						
CLIENT SAMPLE I.D.						
EXTRACTION SOLVENT						
EXTRACTION METHOD						
DILUTION FACTOR						
COMPOUND	CRDL					
SURROGATE	SPK CONC	AGP%	%RC	%RC	%RC	%RC	%RC

Project No:_____ (RWQCB LabForm10A;Ver6/00)

QA/QC REPORT

I. Calibration Standard

(A). Initial Calibration

DATE PERFORMED: _____ ANALYTICAL METHOD:

STANDARD SUPPLY SOURCE:_____ DATE OF SOURCE:

INSTRUMENT I.D.:_____ LOT NUMBER:

COMPOUND	DETECTOR	RT	MASS/CONC UNIT	AREA	RF	RF_{ave}	SD_{n-1}	%RSD
Compound 1			1st conc					
			2nd conc					
			3rd conc					
			4th conc					
			5th conc					
Compound 2			.					
.								
.								
.								
			.					
			.					
Compound k			1st conc					
			2nd conc					
			3rd conc					
			4th conc					
			5th conc					

(B). Continuing Calibration (Mid-Point)

COMPOUND	DETECTOR	RT	MASS/CONC UNIT	AREA	RF	%DIFF	ACPRGE %DIFF
Compound 1							
Compound 2							
.							
.							
Compound k							

Project No:_____ (RWQCB LabForm10A;Ver6/00)

QA/QC REPORT (Continued)

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED:_____ ANALYTICAL METHOD:

BATCH #:_____

LAB SAMPLE I.D.:_____ UNIT: (Circle one) µg/kg µg/l

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT

III. Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: _____ ANALYTICAL METHOD:

STANDARD SUPPLY SOURCE:_____ DATE OF SOURCE:

INSTRUMENT I.D.:_____ LOT NUMBER:

LAB LCS I.D.: _____ UNIT: (Circle one) µg/kg µg/l

ANALYTE	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT

California Regional Water Quality Control Board
Los Angeles Region

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Phone (213) 576-6600 FAX (213) 576-6640 - Internet Address: http://www.swrcb.ca.gov/rwqcb4

April 12, 2002

RECEIVED
APR 1 8 2002
By

Ms. Carole Robbins
PACCAR, Inc.
P.O. Box 1518
Bellevue, WA 98009

WORK PLAN FOR SUPPLEMENTAL SITE INVESTIGATION – PACCAR, INC. FORMER TRICO INDUSTRIES, 1206 WEST 196TH STREET, TORRANCE, CALIFORNIA (SLIC # 0428)

Dear Ms. Robbins:

The Los Angeles Regional Water Quality Control Board (Regional Board) staff has received and reviewed the February 14, 2002, *" Work Plan for Supplemental Site Investigation at the Former Trico Facility at 1206 West 196th Street, Torrance, California," (Workplan)* prepared by Hart Crowser for the referenced site.

During the course of previous investigations of the referenced property, contaminants exceeding the soil screening levels specified in the *"Interim Site Assessment and Cleanup Guidebook, May 1996, California Regional Water Quality Control Board, Los Angeles and Ventura Counties, Region 4"* were identified in soils beneath the site, including up to 3,700 µg/Kg of Perchloroethylene (PCE) and 1,100 µg/Kg of Trichloroethylene (TCE). Also, up to 15,000 µg/L of PCE and 30,000 µg/L of TCE were identified in groundwater.

Based on our review of the Workplan, we have the following comments:

1. The workplan for supplemental site investigation did not include tabular summaries of all relevant soil and groundwater analytical data obtained from prior investigations, soil iso-concentration contours for each contaminant and geologic cross-sections with soil contamination iso-concentrations, as outlined in our letter to you dated September 28, 2001. Also, the proposed soil borings and monitoring wells should have individual identifiers. Please mention which of the eight soil borings are proposed to be converted into monitoring wells.

2. As indicated on Page 4 of the Workplan, a total of 70 soil samples will be analyzed for volatile organic compounds (VOCs) in accordance with EPA Method 8260, a total of 16 samples by EPA Method 8270, a total of 16 samples by EPA Method 8080 for PCBs and pesticides, a total of 8 samples by EPA Method 418.1 for Total Recoverable Petroleum Hydrocarbons, a total of 8 samples by EPA Method 6000/7000 for Title 22 Metals. Please indicate specifically which samples you intend to analyze by the specified analytical methods. Further, please explain the rationale for analysis of the soil samples by the respective analytical methods.

3. Soil samples collected for VOC analysis must be analyzed using U.S. EPA Method 8260B. All soil samples for VOC analysis must be obtained using U.S. EPA Method 5035 sampling procedures. Method 5035 is specified for soil sample preparation and preservation immediately following sample collection to minimize VOC losses. Laboratory methods, detection limits, and

reports shall meet the requirements specified in the Regional Board's laboratory report form revised in June 2000. You can obtain a copy of the revised laboratory report form and requirements by downloading the document from the Regional Board website listed on this letterhead.

Please submit a revised workplan incorporating the above comments to this Regional Board no later than **June 12, 2002.** Should you have any questions related to this project, please contact me at (213) 576-6742, or by e-mail at pguha@rb4.swrcb.ca.gov.

Sincerely,

P. R. Guha Niyogi

Pinaki R. Guha-Niyogi, R.E.A.
Water Resource Control Engineer

cc: Mr. Larry L. Sims, PACCAR Inc., Bellevue, Washington
Dr. Alistaire Callender, Hart Crowser, Long Beach, California
Mr. Ravi Limaye, Hart Crowser, Long Beach, California

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File

PACCAR Inc

December 3, 2001

Mr. Pinaki R. Guha-Niyogi, R.E.A.
Water resource Control Engineer
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

RE: Request for Site Assessment
Former Trico Industries Facility
Torrance, CA
SLIC #0428 and SLIC #0061

Dear Mr. Guha-Niyogi,

As noted in our e-mails and telephone conversation, I am requesting an extension of the deadline for response to your letters of September 28, 2001 to PACCAR Inc (PACCAR) and Mighty Enterprises (Mighty) concerning subsurface investigations at the subject site.

As discussed, PACCAR is in the process of gathering information that should prove helpful to in your understanding the site. In the process of gathering this information, we have found we need another two weeks to adequately respond to your request. In our response we intend to discuss recent activities on the site and to outline our intended path from this point.

The information we are gathering is concerned about more recent studies that have taken place in and around the subject site. This includes work PACCAR has done to further understand its own property as well as to understand the environmental context of surrounding properties. You need to be aware that there have been a large number of on-going soil and groundwater investigations in this particular area of Torrance.

After you have had a chance to review our response, you will better understand the environmental context of the subject site. How future studies are conducted will depend, in part, on our mutual understanding of the context of the site.

As evidenced in our past dealings with the RWQCB, it is PACCAR's policy to work cooperatively with regulatory agencies in environmental matters to arrive at equitable and cost- effective solutions to issues. Please let me know if there are any technical questions I can answer in this matter. I may be reached by telephone at (425)468-7901 or via e-mail at larry.sims@paccar.com.

Sincerely,

Larry L. Sims
Senior Environmental Engineer
Corporate Environmental Department

P.O. Box 1518 Bellevue, Washington 98009 Telephone (425) 468-7400
PACCAR Building 777-106th Avenue N.E. Bellevue, Washington 98004

Dan Denise
File

PACCAR Inc

December 10, 2001

Mr. Pinaki R. Guha-Niyogi, R.E.A.
Water Resource Control Engineer
California Regional Water Quality Control Board, Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

RE: Request for Site Assessment
Former Trico Industries Facility
Torrance, CA
SLIC #0428 and SLIC #0061

Dear Mr. Guha-Niyogi,

The purpose of this letter is to respond to your letters of September 28, 2001 to PACCAR Inc (PACCAR) and Mighty Enterprises (Mighty). Your request for Work Plans for further subsurface investigations was based on reviews of a 1995 Site Characterization report prepared by H2O Science, Inc. and of two reports prepared by SCS Engineers in 1987 and 1988.

Before getting into what is currently known about the site, some confusion as to the ownership of the specific portion of the property about which you are concerned needs to be cleared up. Trico Industries (Trico) owned and operated the site for a number of years and was a subsidiary of PACCAR. PACCAR sold this subsidiary in 1997. Before the sale of Trico, the western portion of the property fronting on Normandie Ave was sold to Mighty. Following the sale of Trico, PACCAR retained ownership of the remaining interior 2-acre portion of the former Trico/Torrance property which is accessed from 196th St. The portion of the subject site that you discussed in your letters is the one presently owned by PACCAR. Mr. Patrick Del Duca, speaking on behalf of Mighty, has responded to the question of the division of ownership of the former Trico property in his letter of November 2, 2001 to you regarding the property identified as SLIC #0061. PACCAR is the current owner and Mighty is the lessee of the eastern portion of the property. In the future, we will refer to the property in question as SLIC #0428 unless you advise otherwise.

Since the H2O work of 1995, PACCAR has investigated the site further as part of our continuing efforts to market the property. Attached is a copy of the report describing an investigation conducted in 2000. The report describes a subsurface investigation that involved cone penetrometer testing, Geoprobe soil and groundwater sampling and monitoring well installation. We have also attached for your convenience a Data Summary report prepared in 1998 that collects in one place subsurface and groundwater information pertaining to the site (and locations in close proximity to the site) that had been gathered in the preceding 10 or so years.

P.O. Box 1518 Bellevue, Washington 98009 Telephone (425) 468-7400
PACCAR Building 777-106th Avenue N.E. Bellevue, Washington 98004

We believe the two enclosed documents will provide your agency with new and substantial information concerning the site's environmental context. How future studies are conducted will depend, in part, on our mutual understanding of the site and its surroundings.

As a follow up to these studies, PACCAR plans to conduct a further subsurface investigation. An outline of the proposed investigation is enclosed with the two reports. PACCAR and its consultant will involve the RWQCB in this project as required. A report of the findings will be forwarded to you when available.

Following your review of the documents and investigation outline, PACCAR would like to discuss with you any concerns or suggestions you may have about past or planned investigative work. I propose you and I have a meeting in the next few weeks along with our consultant Hart Crowser.

It is PACCAR's policy to work cooperatively with regulatory agencies in environmental matters to arrive at equitable and cost- effective solutions to issues. If there are any technical questions I can answer in this matter please call me at (425)468-7901.

Sincerely,

Larry L. Sims
Senior Environmental Engineer
Corporate Environmental Department

Enclosures

CC: A.B. Callender, Hart Crowser

BCC: R.E. Bangert II
P.E. Gladfelter
D.N. Lewis
L.C. Robbins
A.L. Seiple
S.R. Tekosky

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cc: DNC
a. Robbins
A. Gupta
File Torrance

November 2, 2001

VIA FACSIMILE (213) 576-6640

Pinaki R. Guha-Niyogi, R.E.A.
Water Resource Control Engineer
California Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

Re: Trico Industries Facility

Dear Pinaki:

I have copies of your letters of September 28, 2001 and October 31, 2001 concerning the former Trico Industries facility. This correspondence was misdirected to Peter Tsai of Mighty Enterprises. Your September 28, 2001 letter references 1987 and 1988 reports about the former Trico Industries Facility. With the benefit of our conversation, I understand better your interest and the source of the confusion.

The RWQCB now has new staff resources and accordingly is turning to long pending files such as the Trico Industries matter. The passage of time has resulted in the misdirection of your inquiry to Mr. Tsai of Mighty Enterprises.

The property to which the September 28, 2001 letter refers as 19706 South Normandie in fact has a common address of 1206 West 196th Street. I have attached a copy of the legal description of the parcel which now bears the 1206 West 96th Street address. MW1 is on this parcel. The parcel was created in its present form by recordation of a lot line adjustment in May 1988. Mighty Enterprises does not own this parcel.

LA01/DELDP/204456.1

The owner of the parcel of interest to you is Paccar, formerly Trico Industries. The correct contact person is Dan Lewis:

Daniel Lewis	phone:	(425) 468-7519
Paccar, Inc.	fax:	(425) 468-8213
P.O. Box 1518	email:	dan.lewis@paccar.com
Bellevue, WA 98009		

Mighty Enterprises has forwarded a copy of your September 28, 2001 letter and October 3, 2001 bill to Mr. Lewis, for his information.

Please let me know if anything further is required from Mr. Tsai of Mighty Enterprises.

Yours truly,

Patrick Del Duca

cc by U.S. mail w/attachment
and by e-mail w/out attachment: Daniel Lewis (dan.lewis@paccar.com)

EXHIBIT A

Legal Description of the Property

A fee, as to Parcel(s):1.
An easement, as to Parcel(s):2.

THE LAND REFERRED TO IN THIS REPORT IS SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:

Those portions of Lots 6 and 7 of Tract 4671, as per map recorded in Book 56, Pages 30 and 31 of Maps, in the office of the county recorder of said county, described as follows:

Beginning at a point in the Northerly line of said Lot 6, distant thereon, 467.00 feet Easterly from the Westerly line of said Lot 6; thence Southerly, parallel with said Westerly line, 180.00 feet, to the North line of the South half of said Lot 6; thence North 89° 54′ 45" West, along said North line, to a point distant Easterly, 402.38 feet from the Westerly line of said Lot 6; thence South 00° 04′ 28" East parallel to said West line 136.81; thence North 89° 54′ 05" East parallel to the South line of said Lot 7, a distance of 11.02 feet; thence South 00° 04′ 28" East parallel to said West line 141.20 feet; thence South 89° 54′ 05" West parallel to the South line of said Lot 7, a distance of 31.76; thence South 00° 04′ 28" East parallel to said West line, 42.11 feet to a point in the North line of the South 220.00 feet of said Lot 7; thence along said Northerly line North 89° 54′ 05" East to the Easterly line of said Lot 7, thence North 00° 04′ 28" East along the Easterly lines of said Lots 6 and 7 to the North line of said Lot 6; thence along said North line South 89° 54′ 05" West 160.30 feet to the point of beginning.

EXCEPT therefrom an undivided one-half interest in all oil, gas, minerals and other hydrocarbon substances in, on or under said land, as reserved by Benjamin and Anna Shapiro in deed recorded October 8, 1942 as Instrument No. 213 in Book 19556 Page 398, Official Records.

ALSO EXCEPT one-half remaining oil, minerals, gas, hydrocarbon and allied substances in or under said land, as reserved by Harry Cohen and Berta L. Cohen, husband and wife, in deed recorded March 22, 1956 in Book 50667 Page 372 of Official Records as Instrument No. 1512.

The surface rights of entry in and to the top 100 feet of said land were quitclaimed by deed recorded November 16, 1961 in Book D-1422 Page 358, Official Records as Instrument No. 1378.

PARCEL 2:

A right of way for street purposes, to be used in common with others, over the Northerly 25.00 feet of the Westerly 467.00 feet of said Lot 6.

PACCAR Inc

November 2, 2001

VIA FAX TO (310) 516-0368

Dynatech of America
19706 South Normandy Avenue
Torrance, CA 90502

Attn: Mr. Peter Tsai

Reference: 19706 Normandy, Torrance, CA

Subject: California Regional Water Quality Control Board

Dear: Peter,

Thank you for forwarding the letters sent to you by the California Regional Water Quality Control Board. We will be responding to the Board within the month and will make clear to them at that time that they should address their future concerns related to this well to our attention.

Very truly yours,

Daniel N. Lewis

Director of Construction & Corporate Services
dan.lewis@paccar.com

DNL:
cc: [redacted]
C. Robbins
David Gurewitz (fax 310-546-4497)

P.O. Box 1518 Bellevue, Washington 98009 Telephone (425) 468-7400
PACCAR Building 777-106th Avenue N.E. Bellevue, Washington 98004

CONFIRMATION REPORT - MEMORY SEND

Time : NOV-02-01 17:34
Fax number: 425-468-8213
Name : PACCAR CORPORATE

Job	:	717
Date	:	NOV-02 17:33
To	:	913105160368
Doc. pages	:	01
Start time	:	NOV-02 17:33
End time	:	NOV-02 17:34
Pages sent	:	01
Job:717		*** SEND SUCCESSFUL ***

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David Gurewitz (fax 310-546-4497)

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PACCAR Building 777-106th Avenue N.E. Bellevue, Washington 98004

INTEROFFICE COMMUNICATION

CORPORATE

February 14, 2002

TO: R.E. Bangert II

FROM: D.N. Lewis 2/14

CC: C. Robbins

REF: Trip Report

SUBJECT: Trico Torrance file

RECEIVED
FEB 14 2002
RICHARD E. BANGERT II

Following is a report on my trip 2/11 – 2/12.

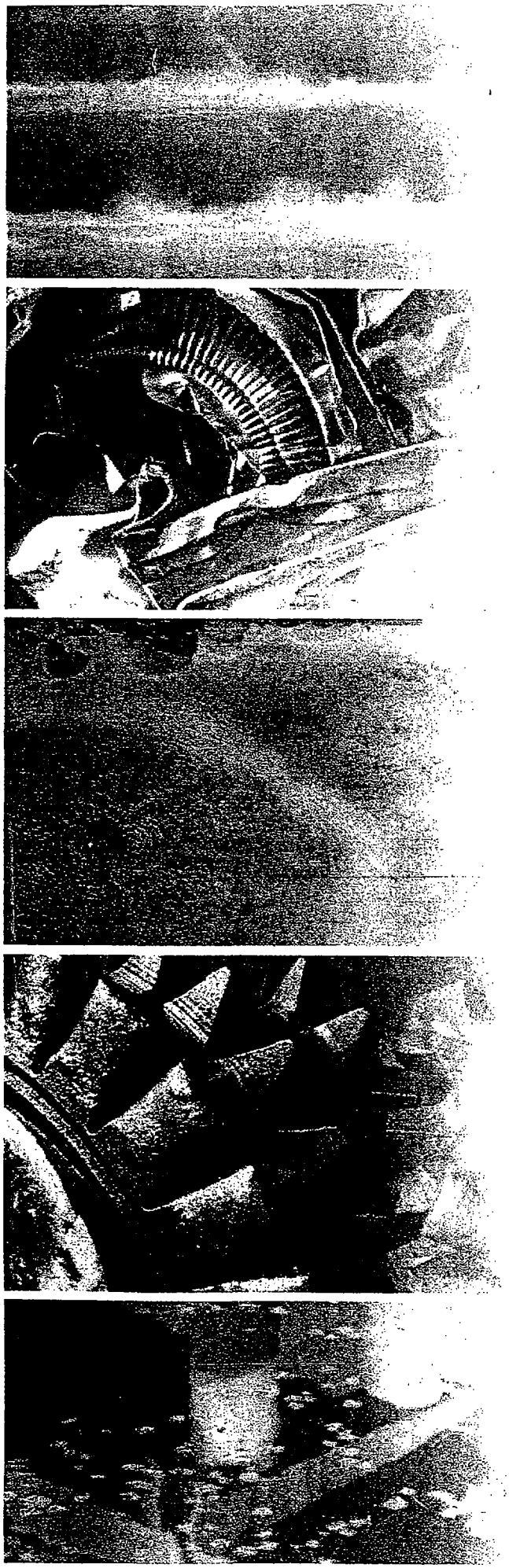
Trico - Torrence

CED Environmental Investigations: I visited the Trico Torrance property concurrent with a visit by Hart-Crowser and contractors bidding on additional sample wells. Location and plans for the proposed wells were reviewed. Location of several of the wells will be adjusted to avoid overhead power lines in one case and large equipment owned by the tenant in another case. A number of smaller pieces of tenant's equipment will have to be moved to accommodate other wells. Hart Crowser advised that approximately one week on-site will be required to drill and sample the wells. Additional time will be required on the front and back of this for tenant to move equipment to provide access to well locations. After the drilling plan is set I will inform the tenant and negotiate with tenant on mitigation for disruption and cost to his operation. I would be prepared for two weeks of rent abatement to cover impacts.

General Site Condition: The property is generally in as good a condition as on prior visits. Tenant operations are active in both the areas of machine assembly and umbrella storage & repair.

DNL
Document21

CAT. NO. 4487



Soil Removal near BL-06
Former Trico Facility
Torrance, California

Prepared for
PACCAR Inc

October 22, 2004
16169-00

HARTCROWSER
Delivering smarter solutions

PACCAR 04069

HARTCROWSER
Delivering smarter solutions

Soil Removal near BL-06
Former Trico Facility
Torrance, California

Anchorage

Denver

Prepared for
PACCAR Inc

Edmonds

October 22, 2004
16169-00

Prepared by
Hart Crowser, Inc.

Long Beach

Evan Griffiths, Ph.D., P.E.
Senior Staff Engineer

Barry Kellems, P.E.
Principal Engineer

Philadelphia

Portland

Seattle

1910 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206.328.5581
Tel 206.324.9530

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CERTIFICATES OF ANALYSIS
JONES ENVIRONMENTAL, INC. - VOCS AND TPH DATA

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ADVANCED TECHNOLOGY LABORATORIES -
SVOCS AND METALS DATA

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APPENDIX D
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SOIL REMOVAL NEAR BL-06
FORMER TRICO FACILITY
TORRANCE, CALIFORNIA

1.0 INTRODUCTION

This report describes remediation work completed for the former Trico Site in Torrance California (Site) near boring BL-06 during May and June 2004. On behalf of PACCAR Inc, Hart Crowser completed the Supplemental Site Investigation during 2003 and the Additional Assessment Report in April 2004, based on requests from the California Regional Water Quality Control Board - Los Angeles Region (RWQCB). The Supplemental Site Investigation showed impacted soil near boring BL-06.

A Work Plan was developed based on previous work done at the Site and discussions between PACCAR, Hart Crowser, and the RWQCB at a January 13, 2004, meeting. The Work Plan described removal procedures for soil impacted by solvents near boring BL-06, and the sampling, analysis, and the reporting of additional data on soil conditions at the Site. The goal of the Work described in the Plan was to obtain RWQCB closure for the soil.

Remediation work included:

- Removal and disposal of approximately 120 tons of soil impacted by solvents at the location of boring BL-06 (an area of approximately 16 feet wide by 14 feet long and to a depth of approximately 12 feet); and

- Collection of data to support a future request for Site soil closure.

This soil removal report summarizes the work performed, the procedures used, the data obtained, and a discussion of the results and conclusions.

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2.0 PROJECT TEAM

The project team consisted of the members as listed in Table 1.

Table 1 - Project Team Members

Role	Company	Address	Phone	Contact
Owner	PACCAR	777 106th Avenue NE Bellevue, WA 98004	425-468-7901 206-781-2113 (cell)	Fred Benz Fred.Benz@paccar.com
Consultant	Hart Crowser, Inc.	1910 Fairview Avenue E Seattle, WA 98102-3699	206-324-9530	Barry Kellems barry.kellems@hartcrowser.com
Contractor	Recon, L.P.	1101 California Avenue, Suite 100 Corona, CA 92881	909-272-2877 714--580-6250 (cell)	Robert Lartz Tino robert.lartz@recon-net.com
Laboratory	Jones Environmental, Inc.	P.O. Box 5387 Fullerton, CA 92838	714--449-9937	Steve Jones / Karen Prame karen@jonesenvironmentallab.com
Laboratory	Advanced Technology Laboratories	3275 Walnut Avenue Sugar Hill, CA 90755	562-989-4045	Eddie F. Rodriguez eddie@atlglobal.com
Landfill Disposal	Waste Management	7732 E. Fieldcrest Ln. Orange, CA 92869	714--771-5554	Robert Heller rheller@wm.com

3.0 WORK PLAN/HEALTH AND SAFETY PLAN

Hart Crowser prepared a Work Plan and a Health and Safety Plan (HSP) for the work to be conducted at the Site. The Work Plan described the procedures used for soil excavation and removal near BL-06. The HSP was designed to minimize exposure of Hart Crowser personnel and its subcontractors to potentially hazardous materials. The HSP described the properties of contaminants encountered, personal protective equipment, working area monitoring, and contingencies in the event of an emergency. The principal subcontractor (Recon) performed the impacted soil removal and provided its own HSP for site hazards not related to contacting hazardous materials.

Hart Crowser subcontracted with a private utility locating service to identify on-site underground lines and utilities near the excavation and to find any potential unknown USTs in the area. Recon contacted Underground Service Alert for the demarcation of underground utilities outside the property boundary 72 hours prior to the initiation of the field work. Hart Crowser determined no permits were required for the excavation from the local agency. PACCAR, the present site owner, and City of Torrance were notified prior to excavation at the Site.

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4.0 SOIL EXCAVATION AND STOCKPILING

During the Supplemental Site Investigation conducted in December 2002, twenty borings were advanced across the Site. One boring, BL-06, was the only boring that showed a variety of chemicals within the upper 10 feet of the ground surface, with little or no contamination seen in the soil column below until reaching the contaminated groundwater smear zone and/or capillary fringe of the water table below 50 feet. As part of the objective of near-surface soil closure for the site, this location was selected for a limited remedial excavation. Cleanup of the contaminated soils in the vicinity of BL-06 consisted of excavating soils to a depth of up to 12 feet across a 14- by 16-foot area.

Hart Crowser personnel observed the excavation and removal of impacted soil centered at BL-06, and conducted air monitoring of the excavation in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166 requirements. The excavated soil was screened using a photoionization detector (PID) and impacted soil was segregated from clean soil. Field PID readings in excavated soil and samples collected for analysis ranged from 0 parts per million (ppmv) to 2,000 ppmv.

A 6-inch concrete slab was cut along the perimeter of the excavation and removed prior to excavation. Approximately 120 tons of impacted soil were removed during the initial excavation and two subsequent overexcavations (Figure 3). Approximately 65 tons of soil were initially removed (baseline) on May 3 and 4, 2004. On May 5, 2004, another 23 tons of soil were excavated (first overexcavation) and 25 additional tons was excavated on May 6, 2004 (second overexcavation). Photos of the Site work are presented in Appendix A.

During excavation, a concrete structure in the general area of BL-06 approximately 3 feet in diameter was discovered. The structure appeared to be filled with imported soil. The removal of the structure was not feasible during the excavation because large shipping containers to the north and east limited access to the area. The soil within the concrete structure was exposed and one soil sample (BL06-0-NES) was collected for analysis.

Excavated soil was stockpiled in a designated area at the Site. Care was taken to confine the excavated soil to the designated storage areas. Stockpiles were situated to leave sufficient area for truck access, loading, and unloading.

Soil stockpiles were placed on plastic and covered with plastic to contain and minimize erosion. The plastic covering the stockpiled soil was anchored to prevent wind damage. A temporary chain link fence was installed to secure the excavation.

Prior to backfilling, the base, south, and west walls of the excavation were covered with plastic. The excavation was backfilled in 18-inch lifts with clean imported soil and compacted to 90 percent of the maximum density. The excavated area was resurfaced with 6 inches of reinforced concrete (No. 4 rebar, 18 inches O.C.).

5.0 VERIFICATION SOIL SAMPLING AND ANALYSIS

Upon completion of the initial soil excavation to predetermined extents (10 by 10 by 12 feet deep), soil samples were collected under the direction of a Hart Crowser registered geologist. Soil samples were collected from the exposed surfaces of the excavation including the bottom and the side walls. Samples were collected using a backhoe and samples were taken from the bucket using Quick Syringes in accordance with EPA Method 5035 for VOCs. Soil samples from the excavation were analyzed immediately on site utilizing a mobile hazardous waste laboratory. This allowed for analytical results to be obtained quickly, within a few minutes, and helped guide the excavation to be able to target the removal of identifiable contamination. Soil samples collected after completion of the final overexcavation were submitted to a stationary hazardous waste laboratory for analysis. Analytical data are presented in Appendix B.

Three soil samples were collected across the **bottom** of the initial baseline excavation at depths of 12 and 13 feet beneath the ground surface. Eight additional soil samples were collected from the four side walls of the excavation at depths of 4, 7, or 10 feet. Soil samples were collected at selected locations based on visual, olfactory, and field screening methods where the most probable indication of some level of contamination may have existed. Field screening methods included the use of the PID and the mobile lab, which allowed for multiple screening samples to be collected and analyzed to guide the excavation. This method also allowed for field correlation between PID readings and analytical results from the mobile lab. Figure 3 shows the excavation and sample locations and analytical results.

The analytical results of soil collected after the initial excavation indicated field screening and laboratory analysis for the north wall, east wall, and base of the excavation were predominantly non-detect with just a few constituents barely detectable at trace concentrations.

Along the south and west walls, certain constituents of concern (COCs) remained above their respective PRGs near the 4-foot depth of the **south** and **west** walls, and at the 10-foot depth of the west wall. The concentrations of

PACCAR 04076

COCs were beginning to decrease significantly at the limits of the initial excavation.

5.1 South Wall

Certain areas of the **south wall** still exhibited some discoloration or the possible indication of contamination after the initial excavation. Most of the surrounding strata appeared fairly clean except for the few areas of discoloration. Excavation continued until an additional 4-foot-wide section across the full south wall face was removed in excess of 8 feet in depth. Another soil sample was collected from the south wall at the same 4 feet depth as the sample collected during the initial excavation. PCE had been detected in boring BL-06 at 29,000 ug/kg, and after excavation dropped to 3,900 ug/kg, close to its PRG level of 3,400 ug/kg. TCE dropped from about 1,500 ug/kg to 490 ug/kg closer to its PRG of 110 ug/kg. TPH concentrations declined but fluctuated just above 200 mg/kg. More than 95 percent of the TPH (C6-C44) detected in the south wall sample was within the C8-C11 range. Mr. Steve Jones of Jones Environmental confirmed that the TPH contamination was likely mineral spirits because of the predominance of C8-C11 carbons and the noticeable lack of benzene. Further excavation to the south was not possible because of the placement of large crated machinery near the excavation.

5.2 West Wall

After the initial excavation, two soil samples were collected from the **west wall** at depths of 4 and 10 feet where field-screening methods provided an indication of the presence of potential contamination. The excavation continued until an additional 6-foot section was removed across the full wall face to a depth of 8 to 10 feet. Along the **west wall**, PCE and TCE concentrations was reduced to well below their respective PRGs with a moderate amount of TPH contamination remaining. More than 80 percent of the TPH (C6-C44) detected in the west wall samples were within the C8-C11 range. Again, it is likely that the TPH contamination observed was mineral spirits because of the predominance of C8-C11 range carbons and the lack of benzene. This was confirmed by the laboratory chemist for Jones Environmental.

The soil samples were analyzed for VOCs by EPA Method 5035/8260 and total petroleum hydrocarbon (TPH) by EPA Method 8015M. After completion of excavation activities, according to LARWQCB stockpile sampling guidance, two soil samples were collected from the soil stockpile for characterization of the soil for disposal. The stockpile samples were analyzed for VOCs, semivolatile organic compounds (SVOCs) by EPA Method 8270, TPH, and CAM 17 Metals

PACCAR 04077

by EPA Method 6010. Chain of custody protocols were followed during sampling handling and shipment to the chemistry laboratories.

A summary data sheet, the Jones Environmental analytical data sheets, and Advanced Technology analytical data sheets are presented in Appendix B. Soil samples collected from the initial excavation were analyzed by Jones Environmental (Fullerton, CA), a certified hazardous waste mobile laboratory. Analyses of subsequent excavation and stockpile (VOCs and TPH) samples were performed at the Jones Environmental stationary laboratory. Stockpile soil samples for SVOC and CAM 17 metal analyses were sent to Advance Technology Laboratories (Long Beach, CA), a state-certified hazardous waste stationary laboratory.

6.0 SOIL DISPOSAL

Upon receipt of profile results, Hart Crowser coordinated the soil transportation and disposal with Waste Management, Inc. On June 18, 2004, the stockpiled soil was loaded onto trucks and disposed of off site as a non-RCRA hazardous waste at the Antelope Valley Landfill, which had been approved by PACCAR. Hart Crowser as PACCAR's authorized representative signed the waste manifests. Copies of Waste Manifests are included in Appendix E.

7.0 CONCLUSIONS

Cleanup of the contaminated soils in the vicinity of BL-06 consisted of excavating soils to a depth of 8 to 12 feet followed by off-site disposal. The original scope of work proposed the excavation of approximately 65 tons of contaminated soil. About 120 tons of soil were ultimately excavated and disposed of off site by Waste Management at the Antelope Hills Landfill.

During the initial excavation, the **base** of the excavation, the **east** side wall, and the **north** side wall indicated achievement to well below PRG standards in the remaining soil.

After the initial excavation, contamination was detected within the upper portions of the west and south side walls.

Further excavation along the **west wall**, reduced PCE and TCE concentrations to well below PRGs with a moderate level of TPH contamination, likely mineral spirits, remaining.

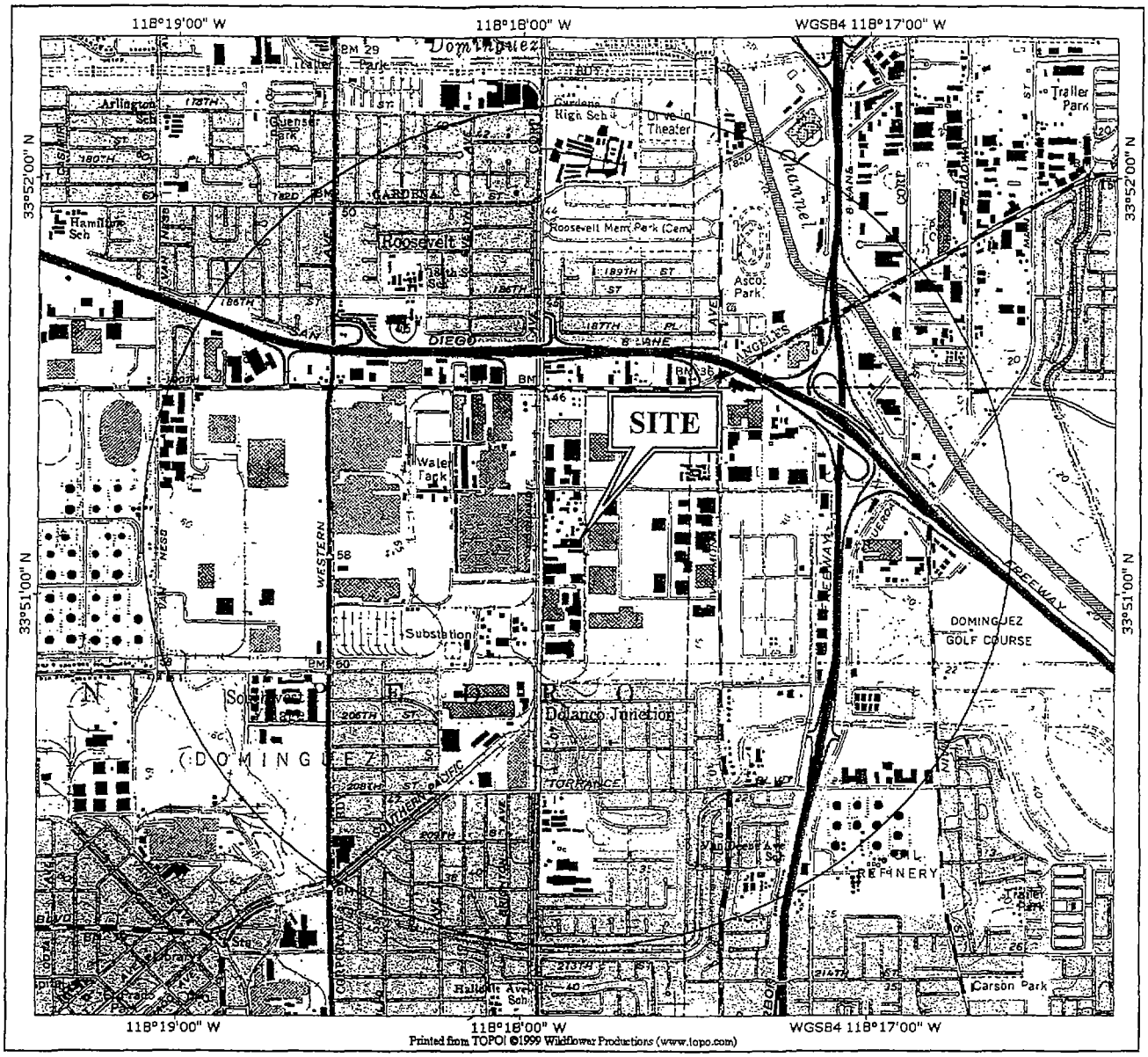
Further excavation along the **south wall**, reduced TCE from 1,500 µg/kg to about 480 µg/kg, reduced PCE from 29,000 µg/kg to 3,900 µg/kg, and TPH concentrations dropped in half and appeared to be indicative of mineral spirits.

Contamination seemed to be localized around the former BL-06 location and as the excavations continued the detected constituent concentrations dropped off significantly. Future excavation is planned to complete the contaminant removal to the south and to the west to obtain near-surface soil closure for the area around BL-06.

F:\docs\jobs\1616900\BL06 Excavation Report.doc

PACCAR 04079

Figures



0 2,000 4,000 6,000ft

Source: USGS, 1964
Torrance - California Quadrangle
7.5-minute (topographic) series
Photorevised 1981
Scale: 1" = 2,000 ft (1:24,000)
Site Location: Township 4S, Range 14W, Section 1G S.B B&M

N

HARTCROWSER

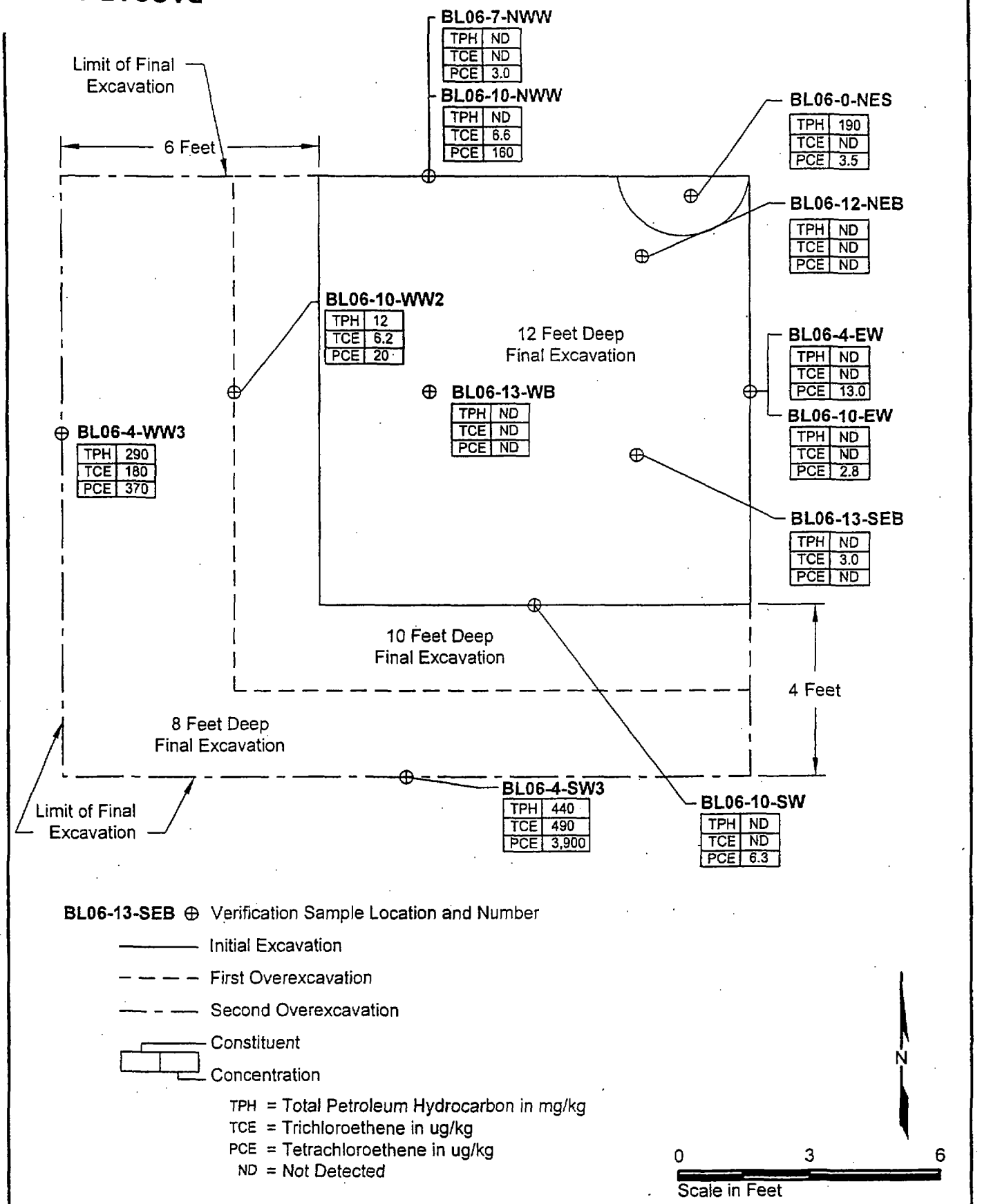
PROJECT: Former Trico Facility
1206 W. 196 th Street, Torrance, CA

Project No.:	Date:
16169-00	Sept 24, 2004

Figure 1. Vicinity Map

1616900AA.CDR CAS 9/22/04

PACCAR 04081



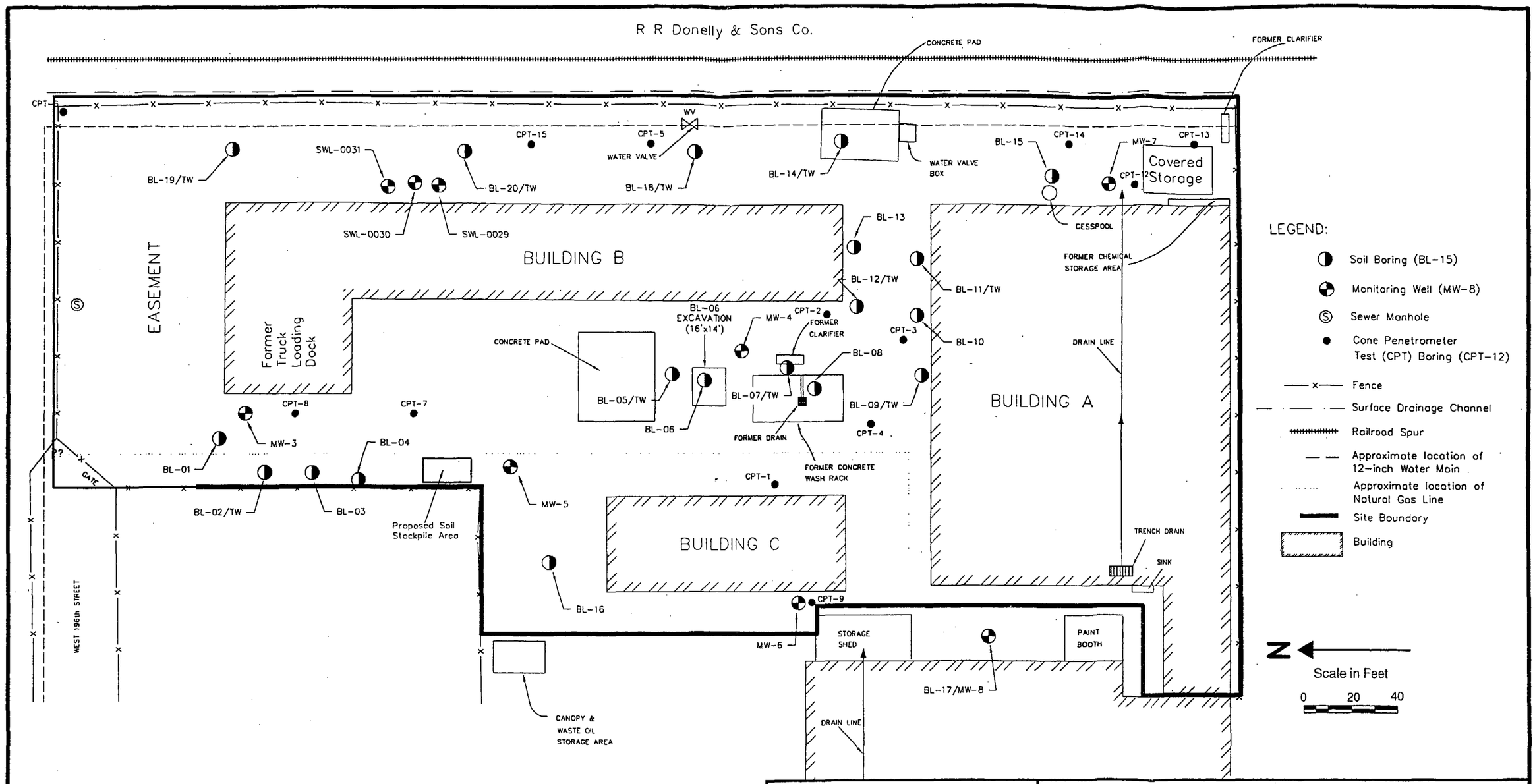
HARTCROWSER

PROJECT: PACCAR EXCAVATION NEAR BL-06

Figure 3: Excavation Sampling Location Plan Showing Analytical Results

HC PROJECT NO.: 16169-00 | DATE: 10/04

1616900-004.dwg ABJ 10/25/04



NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

3: SURVEY PROVIDED BY: DULIN & BOYNTON, SIGNAL HILL, CA

4: TW – Temporary Well Location

HARTCROWSER

Site Plan
Former Trico Facility
1206 W 196th ST
Torrance, California

Date: 10/04

Job No.: 16169-00

Project: Paccar Excavation Near BL-06

1616900-003.DWG ABJ 10/25/04

Figure 2

PACCAR 04083

Table B-1
Summary of BL-06 Excavation Sampling Analytical Results
Former Trico Facility
Torrance, CA

Sample ID	Sample Location	Sample Depth (feet bgs)	Date Sampled	Benzene	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	tert-Butylbenzene	Chloroform[1] PRG	Chloroform[1] Modified PRG	Dibromochloromethane	1,2-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	Isopropylbenzene	Ethylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	Propylbenzene (n-Propylbenzene)	Tetrachloroethene (Tetrachloroethylene)	Toluene	1,1,1-Trichloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	Xylenes	All Others	C6-C7	C8-C9	C10-C11	C12-C13	C14-C15	C16-C17	C18-C19	C20-C23	C24-C27	C28-C31	C32-C35	C36-C39	C40-C43	C44+	TPH (Total)
					VOCs by US EPA Method 5053B/8260B Results in ug/kg (Analyte)																							TPH-CC by US EPA Method 8015M Results in mg/kg													
U.S. EPA Region 9 PRGs dated 10/01/02		Residential Soil			240,000	220,000	390,000	3,600	940	1,100	370,000	280	120,000	NA	8,900	NA	9,100	56,000	240,000	1,500	520,000	1,200,000	52,000	21,000	53	275,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		Industrial Soil			240,000	220,000	390,000	12,000	2,000	2,600	370,000	600	410,000	NA	20,000	NA	21,000	190,000	240,000	3,400	520,000	1,200,000	170,000	70,000	110	420,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Data Shown Below is from Initial BL-06 Boring																																										
BL-6	NA	10	12/13/02	<20	11,000	9,800	620	<50		NA	<50	NA	<50	3300	8000	NA	<500	10,000	8,800	29,000	4,800	<50	85,000	27,000	1,500	105,000	NA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Data Shown Below are from the Final Faces Encountered During Excavation in the Area of BL-06																																										
BL06-13-SEB	South East Base	13	05/04/04	<1	<1	<1	<1	4.6		<1	<1	2.1	<1	<1	<1	<1	3.1	<1	13	<1	<1	7.6	<1	<1	3.0	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-12-NEB	North East Base	12	05/04/04	<1	<1	<1	<1	3.2		1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.9	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-13-WB	West Base	13	05/04/04	<1	<1	<1	<1	3.6		1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-7-NWW	North West Wall	7	05/04/04	<1	<1	<1	<1	2.5		1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.0	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-10-NWW	North West Wall	10	05/04/04	<1	<1	15	<1	1.8		<1	<1	<1	<1	<1	35	28	<1	88	<1	160	<1	<1	170	<1	6.6	53	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-10-EW	East Wall	10	05/04/04	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	<1	9.3	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-4-EW	East Wall	4	05/04/04	<1	<1	<1	<1	3.8		2.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	13	<1	<1	5.9	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-10-SW	South Wall	10	05/04/04	<1	9.3	9.9	<1	<1		<1	<1	<1	<1	<1	6.4	12	<1	51	<1	6.3	<1	<1	61	<1	<1	41	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BL06-4-SW3	South Wall	4	05/06/04	<1	<1	1200	71	<1		<1	<1	<1	<1	640	7700*	910*	<1	6000*	<1	3900*	7200*	<1	35600*	16500*	180	63500*	<1	15	280	140	8.1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	440
BL06-10-WW2	West Wall	10	05/05/04	<1	4.0	<1	<1	<1		<1	<1	<1	<1	<1	120	13	<1	59	<1	20	6.4	<1	150	<1	6.2	120	<1	<10	3.4	6.7	2.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12
BL06-4-WW3	West Wall	4	05/06/04	<1	170	110	<1	<1		<1	32	<1	<1	41	12500*	360	<1	2400*	<1	370	350	<1	9500*	2400*	180	20000*	<1	16	140	99	5.9	1.6	1.4	2.2	7.2	10	3.2	1.6	<10	<10	<10	290
Data Shown Below is from Concrete Structure Exposed During Excavation Around BL-06																																										
BL06-0-NES	North East Surface	0	05/04/04	<1	<1	<1	<1	3.7		1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.5	<1	<1	<1	<1	<1	<1	<1	<10	<10	<10	<10	<10	<10	<10	2.1	30	62	26	34	28	9.4	190

Notes

Values shaded and bolded are above PRG values
NA = not applicable
< - Not Detected above the Practical Quantitation Limit (PQL)
Practical Quantitation Limit (PQL) for TPH (10 mg/Kg) and for VOCs (1 ug/Kg)
VOCs - Volatile Organic Compounds
TPH- CC - Total Petroleum Hydrocarbon - Carbon Chain Analysis

ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
bgs - below ground surface
-- = Sample not analyzed
* Dilutions for these compounds; first number for all others

PACCAR 04093

Table B-2
Summary of Stockpiles Sampling Analytical Results
Former Trico Facility
Torrance, CA

Sample ID	Sample Location	Date Sampled	Analyte: VOCs by US EPA Method 5053B/8260B Results in ug/kg														TPH-CC by US EPA Method 8015M Results in mg/kg						SVOCs by US EPA Method 8270C Results in ug/kg					Title 22 Metals by US EPA Method 6010B/7000 Series Results in mg/kg																
			Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Isopropylbenzene	Ethylbenzene	4-Isopropyltoluene	Naphthalene	Styrene	Tetrachloroethane (Tetrachloroethylene)	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Trichloroethene (Trichloroethylene)	Xylenes	All Others	C6-C7	C8-C9	C10-C11	C12-C13	C14-C44+	TPH (Total)	Bis(2-ethylhexyl)phthalate	Butylbenzylphthalate	Di-n-Butylphthalate	Naphthalene	All Others	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury (EPA Method 7471)	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
U.S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		240,000	220,000	NA	8,900	NA	56,000	1,700,000	1,500	520,000	52,000	21,000	53	275,000	NA	NA	NA	NA	NA	NA	NA	35,000	12,220,000	NA	56,000	NA	31	0.38/21.6	5,375	154	37	211	903	3,129	150	23	391	1,564	391	391	5	547	23,463
	Industrial Soil		240,000	220,000	NA	20,000	NA	190,000	1,700,000	3,400	520,000	170,000	70,000	110	420,000	NA	NA	NA	NA	NA	NA	NA	12,500	100,000,000	NA	190,000	NA	409	1.6/255.9	66,577	1,941	451	448	1,921	40,877	750	307	5,110	20,439	5,110	5,110	68	7,154	100,000
SP-BL06-01	Stockpile, northeast of excavation	05/11/04	<1	<1	<1	<1	<1	<1	3.8	<1	<1	<1	<1	9.4*	<1	<1	<10	<10	<10	<10	<10	<10	340	480	<330	<330	<330-1600	<1	6.4	100	<1	<1	24	10	21	10	<0.1	<1	15	5.0	<1	<1	44	55
SP-BL06-02	Stockpile, north of excavation	05/11/04	650*	320	65	2000*	732	1500*	57	192	72	5400*	1600	19	3400*	<1	<10	48	120	9.5	<10	180	3600	1900	760	590	<330-1600	<1	2.6	150	<1	<1	23	10	17	7.5	<0.1	<1	15	4.2	<1	<1	46	52

Notes

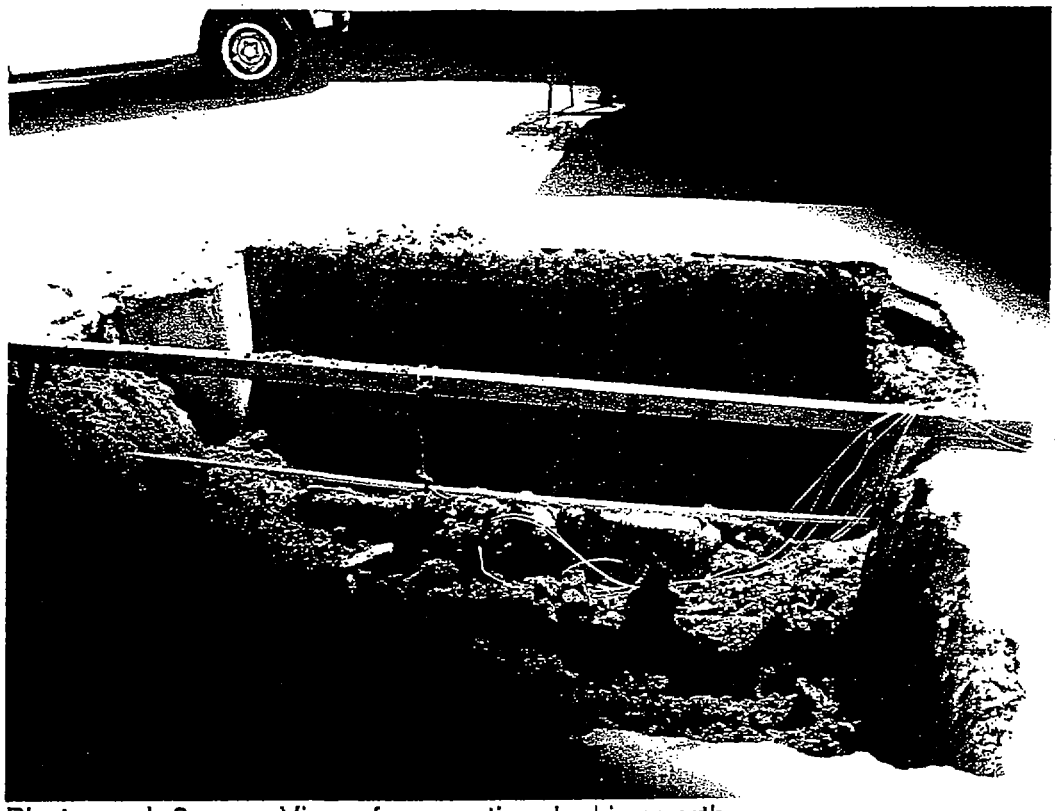
SP - Stockpile
NA = not applicable
< - Not Detected above the Practical Quantitation Limit (PQL)
Practical Quantitation Limit (PQL) for TPH (10 mg/Kg), for VOCs (1 ug/Kg), for SVOCs (330 - 1660 ug/Kg), and for Metals (1 mg/kg)
VOCs - Volatile Organic Compounds
TPH- CC - Total Petroleum Hydrocarbon - Carbon Chain Analysis
SVOCs - Semi Volatile Organic Compounds
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
bgs - below ground surface
* Dilutions for these compounds; first number for all others

PACCAR 04094

APPENDIX A
PHOTOGRAPHS

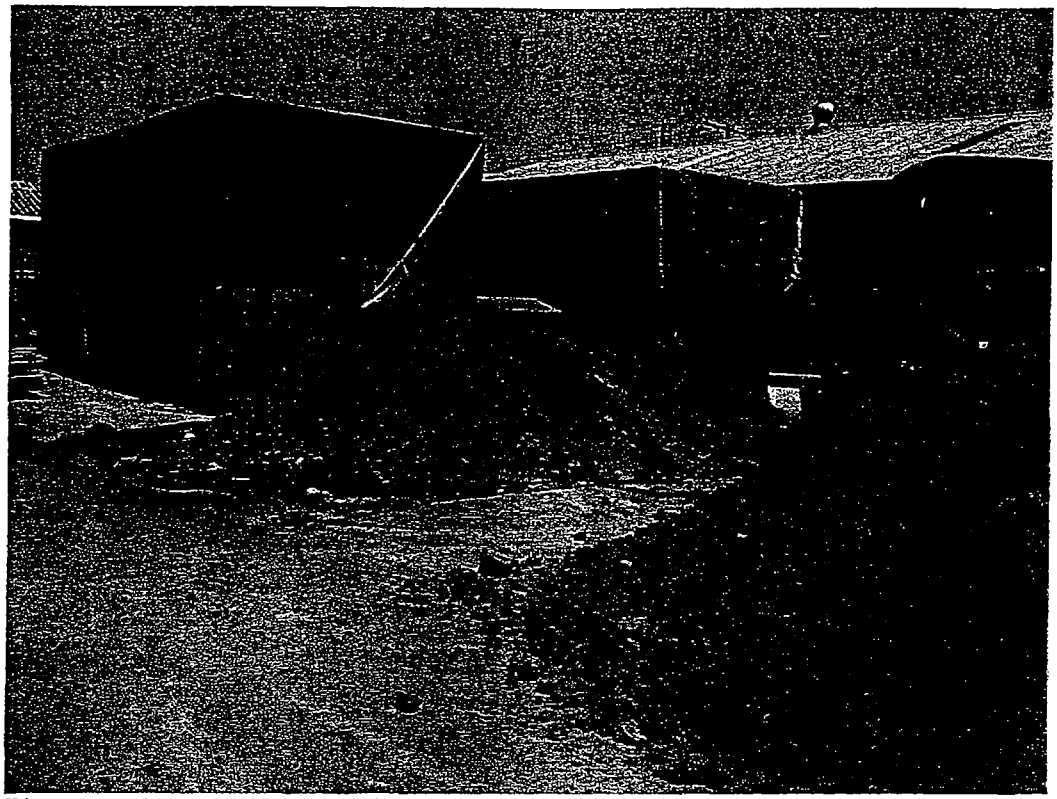
Photograph 1: View of BL-06 prior to excavation.

Photograph 2: View of initial stage of excavation.

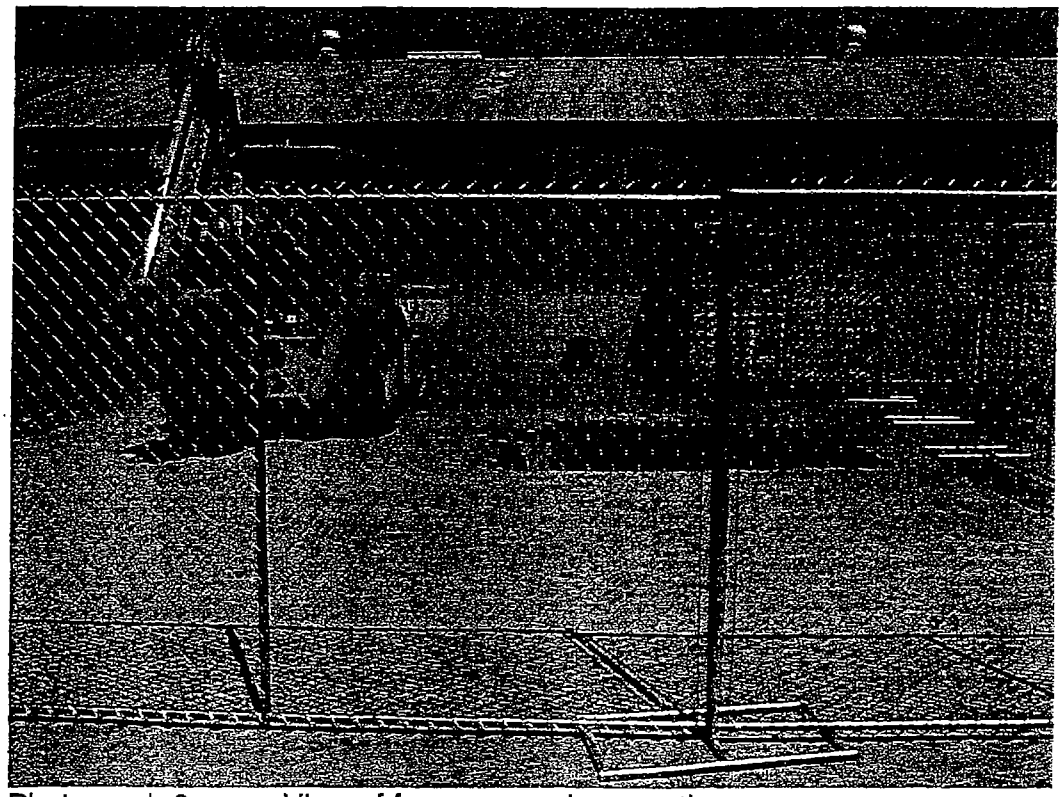


Photograph 3: View of excavation, looking north.

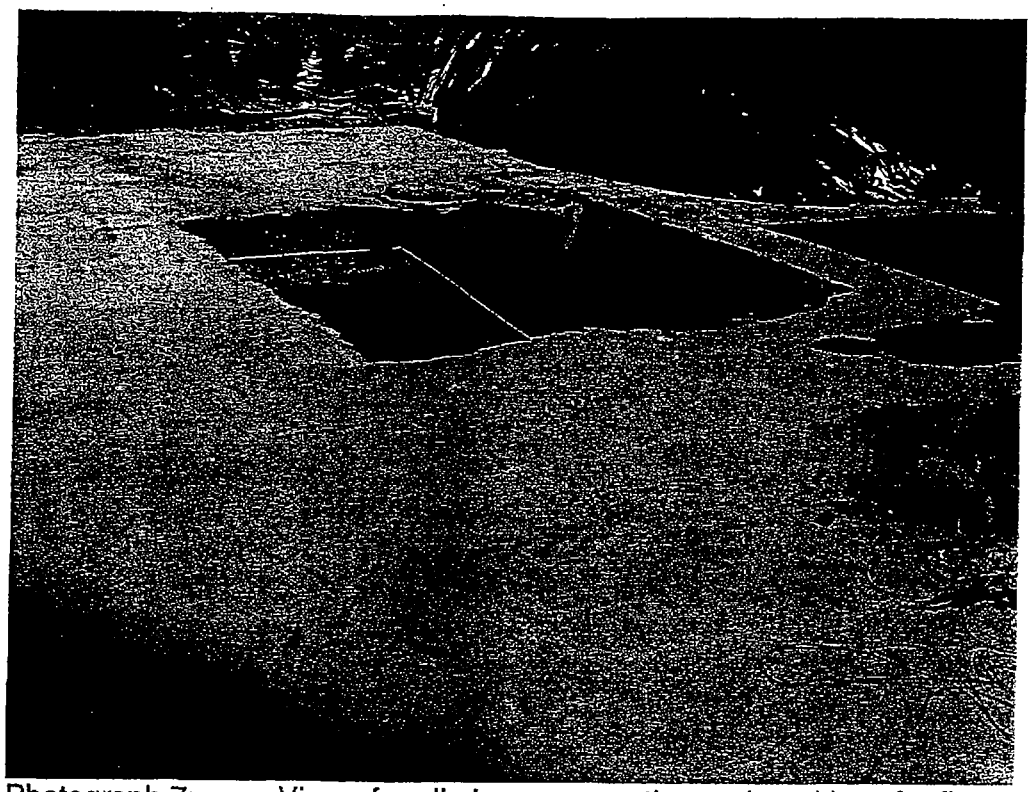
Photograph 4: View of subsurface concrete structure on the northeastern corner of the excavation area.



Photograph 5: View of stockpile near excavation.

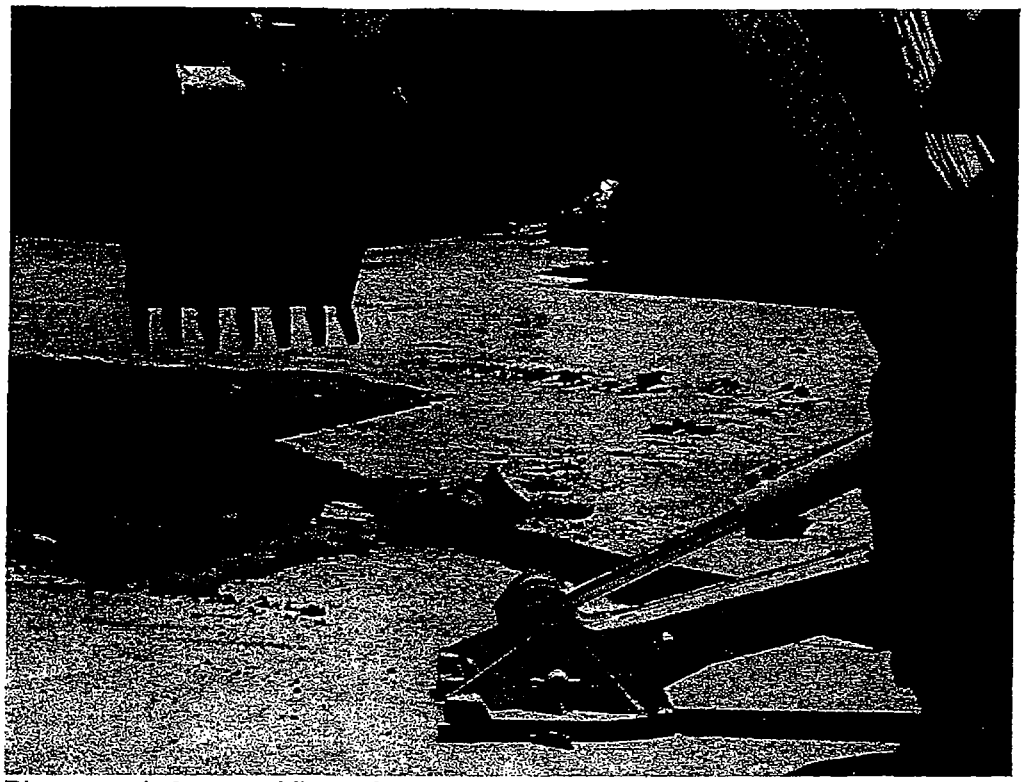


Photograph 6: View of fence around excavation.

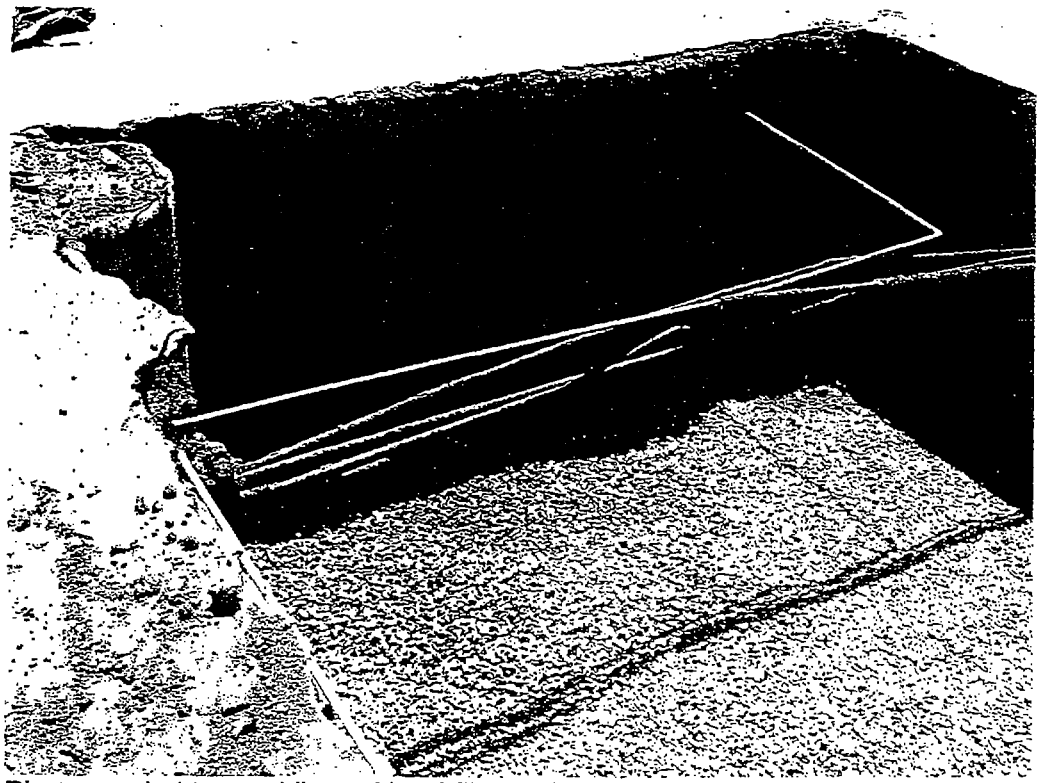


Photograph 7: View of preliminary excavation and markings for first overexcavation.

Photograph 8: View following first overexcavation.

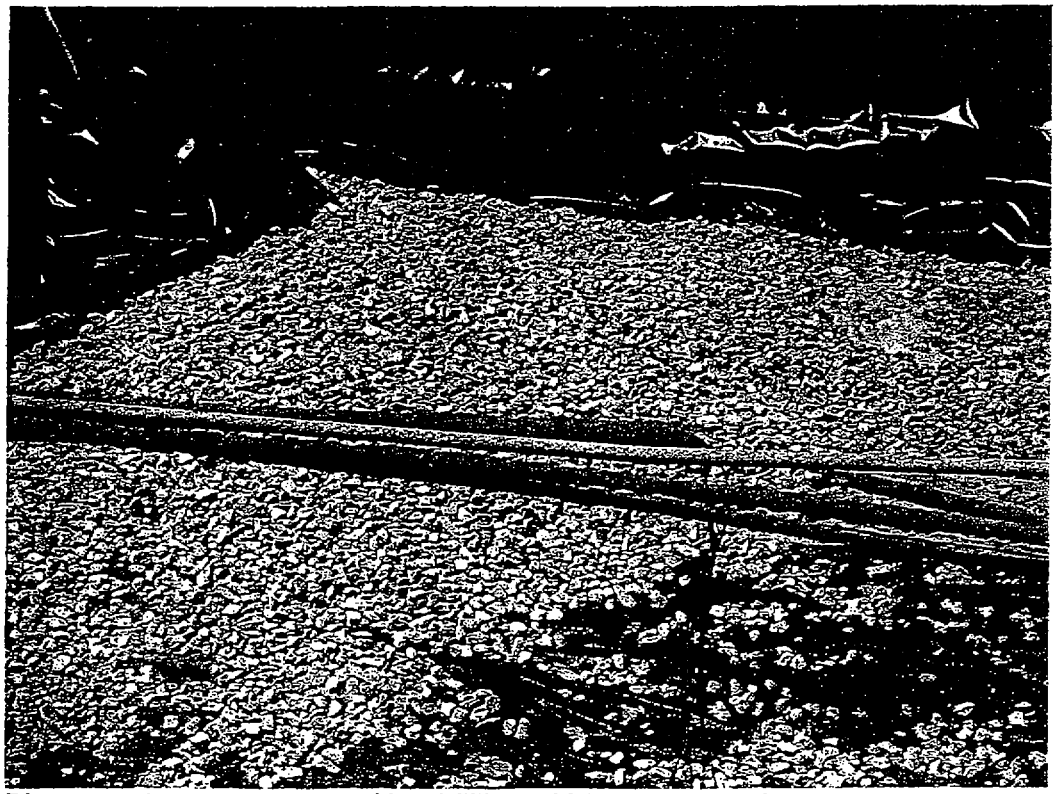


Photograph 9: View of second overexcavation.



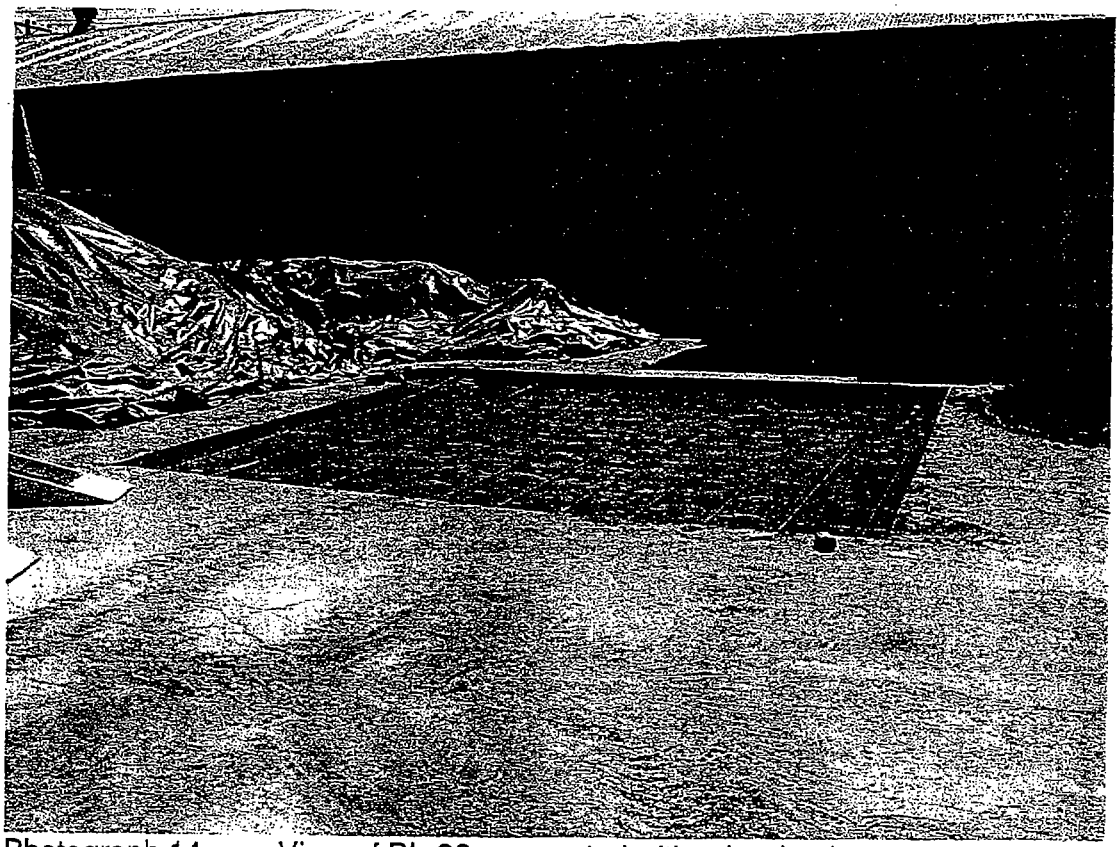
Photograph 10: View of backfilling of BL-06 excavation.

Photograph 11: View of backfilling of BL-06 excavation.



Photograph 12: View of backfilling of BL-06 excavation.

Photograph 13: View of BL-06 compaction.



Photograph 14: View of BL-06 compacted with rebar in place.

APPENDIX B
SUMMARY DATA SHEETS AND LABORATORY CERTIFICATES OF ANALYSIS

Appendix B

PACCAR 04092

ATTACHMENT B-1
CERTIFICATES OF ANALYSIS
JONES ENVIRONMENTAL, INC. - VOCS AND TPH DATA

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

ANALYSES REQUESTED

1. Mod 8015 Diesel - Simulated Distillation Extended Range (EPA 2887)
2. EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample ID
Concentration (mg/Kg)

Carbon Chain Range	BL06-13-SEB	BL06-12-NEB	BL06-7-NWW	BL06-13-WB	BL06-10-NWW	BL06-10-WW
C6-C7	ND	ND	ND	ND	ND	**15**
C8-C9	ND	ND	ND	ND	ND	**380**
C10-C11	ND	ND	ND	ND	ND	**260**
C12-C13	ND	ND	ND	ND	ND	**6.7**
C14-C15	ND	ND	ND	ND	ND	ND
C16-C17	ND	ND	ND	ND	ND	ND
C18-C19	ND	ND	ND	ND	ND	ND
C20-C23	ND	ND	ND	ND	ND	ND
C24-C27	ND	ND	ND	ND	ND	ND
C28-C31	ND	ND	ND	ND	ND	ND
C32-C35	ND	ND	ND	ND	ND	ND
C36-C39	ND	ND	ND	ND	ND	ND
C40-C43	ND	ND	ND	ND	ND	ND
C44+	ND	ND	ND	ND	ND	ND
Total	ND	ND	ND	ND	ND	**660**
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	93%	91%	89%	83%	98%	89%
Dilution Factor	1	1	1	1	1	1
Practical Quantitation limits	10	10	10	10	10	10

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

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(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample ID
Concentration (mg/Kg)

Carbon Chain Range	BL06-4-WW	BL06-10-SW	BL06-4-SW	BL06-10-EW	BL06-4-EW	BL06-0-NES
C6-C7	**15**	ND	**7.1**	ND	ND	ND
C8-C9	**210**	ND	**170**	ND	ND	ND
C10-C11	**22**	ND	**120**	ND	ND	ND
C12-C13	**1.3**	ND	**5.6**	ND	ND	ND
C14-C15	ND	ND	**1.2**	ND	ND	ND
C16-C17	**2.6**	ND	ND	ND	ND	ND
C18-C19	**7.0**	ND	ND	ND	ND	ND
C20-C23	**27**	ND	ND	ND	ND	**2.1**
C24-C27	**14**	ND	ND	ND	ND	**30**
C28-C31	**8.1**	ND	ND	ND	ND	**62**
C32-C35	ND	ND	ND	ND	ND	**26**
C36-C39	ND	ND	ND	ND	ND	**34**
C40-C43	ND	ND	ND	ND	ND	**28**
C44+	ND	ND	ND	ND	ND	**9.4**
Total	**310**	ND	**300**	ND	ND	**190***
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	108%	93%	95%	90%	95%	116%
Dilution Factor	1	1	1	1	1	1
Practical Quantitation limits	10	10	10	10	10	10

ND = Not Detected
* = Hydrocarbons in this sample most closely resemble Asphalt.

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: BL06-13-EB

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	103%	105%	1.7%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Jones Environmental, Inc.

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(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-13-SEB	BL06-12-NEB	BL06-7-NWW	BL06-13-WB	BL06-10-NWW	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	ND	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
sec-Butylbenzene	ND	ND	ND	ND	**15**	1.0	ug/Kg
tert-Butylbenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Chloroform	**4.6**	**3.2**	**2.5**	**3.6**	**1.8**	1.0	ug/Kg
Chloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	**1.7**	**1.4**	**1.9**	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-13-SEB	BL06-12-NEB	BL06-7-NWW	BL06-13-WB	BL06-10-NWW	Practical Quantitation Limits	Units
Analytes:							
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	**2.1**	ND	ND	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
Ethylbenzene	ND	ND	ND	ND	**35**	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	ug/Kg
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	ND	ND	ND	**28**	1.0	ug/Kg
Methylene chloride	**3.1**	ND	ND	ND	ND	1.0	ug/Kg
Naphthalene	ND	ND	ND	ND	**86**	1.0	ug/Kg
n-Propylbenzene	**13**	ND	ND	ND	ND	1.0	ug/Kg
Styrene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Tetrachloroethylene	ND	ND	**3.0**	ND	**160**	1.0	ug/Kg
Toluene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	**7.6**	**4.9**	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-13-SEB	BL06-12-NEB	BL06-7-NWW	BL06-13-WB	BL06-10-NWW	Practical Quantitation Limits	Units
Analytes:							
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Trichloroethylene	**3.0**	ND	ND	ND	**6.6**	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	ND	ND	ND	ND	**170**	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Xylenes	ND	ND	ND	ND	**53**	1.0	ug/Kg
MTBE	ND	ND	ND	ND	ND	1.0	ug/Kg
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	99%	98%	102%	98%	94%	60 - 140	
Toluene-d_8	100%	100%	94%	97%	92%	60 - 140	
4-Bromofluorobenzene	99%	96%	97%	95%	--@	60 - 140	

ND = Not Detected
@ = High hydrocarbons in this sample prevented adequate surrogate recovery.

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-10-WW	BL06-4-WW	BL06-10-SW	BL06-4-SW	BL06-10-EW	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	ND	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	ND	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	ND	**9.3**	**270**	ND	1.0	ug/Kg
sec-Butylbenzene	**600**	**9600***	**9.9**	**200**	ND	1.0	ug/Kg
tert-Butylbenzene	**32**	**29**	ND	**9.0**	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Chloroform	**5.5**	**4.7**	ND	ND	ND	1.0	ug/Kg
Chloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	ND	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	ND	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg

ND = Not Detected
* = Dilutions for these compound(s); first number for all others

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-10-WW	BL06-4-WW	BL06-10-SW	BL06-4-SW	BL06-10-EW	Practical Quantitation Limits	Units
Analytes:							
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	ug/Kg
Ethylbenzene	**1800***	**65400***	**6.4**	**1400***	ND	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	ND	ND	ND	1.0	ug/Kg
Isopropylbenzene	**250**	**700**	ND	**140**	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	**14600***	**12**	**330**	ND	1.0	ug/Kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Naphthalene	**7100***	**17100***	**51**	**470**	ND	1.0	ug/Kg
n-Propylbenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
Styrene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Tetrachloroethylene	**4200***	**16700***	**6.3**	**5.2**	**2.8**	1.0	ug/Kg
Toluene	**390**	**8900***	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg

ND = Not Detected
* = Dilutions for these compound(s); first number for all others

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-10-WW	BL06-4-WW	BL06-10-SW	BL06-4-SW	BL06-10-EW	Practical Quantitation Limits	Units
Analytes:							
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Trichloroethylene	**64**	**230**	ND	ND	ND	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	**22900***	**78000***	**61**	**8000***	**9.3**	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	ND	ND	**7.3**	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Xylenes	**22700***	**113000***	**41**	**2400***	ND	1.0	ug/Kg
MTBE	ND	ND	ND	ND	ND	1.0	ug/Kg
Dilution Factor	1/25*	1/25*	1	1/10*	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	96%	97%	94%	91%	92%	60 - 140	
Toluene-d_8	94%	93%	95%	100%	103%	60 - 140	
4-Bromofluorobenzene	102%	--@	90%	--@	93%	60 - 140	

ND = Not Detected
@ = High hydrocarbons in this sample prevented adequate surrogate recovery.
* = Dilutions for these compound(s); first number for all others

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-EW	BL06-0-NES	Practical Quantitation Limits	Units
Analytes:				
Benzene	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	ND	1.0	ug/Kg
sec-Butylbenzene	ND	ND	1.0	ug/Kg
tert-Butylbenzene	ND	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	1.0	ug/Kg
Chloroform	**3.8**	**3.7**	1.0	ug/Kg
Chloromethane	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	1.0	ug/Kg
Dibromochloromethane	**2.3**	**1.7**	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-EW	BL06-0-NES	Practical Quantitation Limits	Units
Analytes:				
1,2-Dichloroethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
Ethylbenzene	ND	ND	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	1.0	ug/Kg
Isopropylbenzene	ND	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	ND	1.0	ug/Kg
Methylene chloride	ND	ND	1.0	ug/Kg
Naphthalene	ND	ND	1.0	ug/Kg
n-Propylbenzene	ND	ND	1.0	ug/Kg
Styrene	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
Tetrachloroethylene	**13**	**3.5**	1.0	ug/Kg
Toluene	ND	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:**	A-5277
		Client Ref. No.:	16169
Attn:	Ron Halpern	**Date Sampled:**	05/04/04
		Date Received:	05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-EW	BL06-0-NES	Practical Quantitation Limits	Units
Analytes:				
1,1,2-Trichloroethane	ND	ND	1.0	ug/Kg
Trichloroethylene	ND	ND	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	**5.9**	ND	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	1.0	ug/Kg
Xylenes	ND	ND	1.0	ug/Kg
MTBE	ND	ND	1.0	ug/Kg
Dilution Factor	1	1		
Surrogate Recovery :			**QC Limits**	
Dibromofluoromethane	84%	63%	60 - 140	
Toluene-d_8	99%	100%	60 - 140	
4-Bromofluorobenzene	93%	89%	60 - 140	

ND = Not Detected

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QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/05/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	A-5277 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/04/04 05/04/04
Project:	PACCAR	**Date Analyzed:**	05/04/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: BL06-13-WB

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	103%	99%	3.3%	60 - 140
Chlorobenzene	99%	94%	4.7%	60 - 140
Toluene	100%	94%	6.6%	60 - 140
Trichloroethylene	91%	86%	6.3%	60 - 140
1,1-Dichloroethylene	87%	82%	6.8%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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TESTING LABORATORIES

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Chain-of-Custody Record

Client: HART CROWSER
Date: 5/4/04
Project Name: PACCAR
Client Project #: 16169
Project Address: 1206 W. 196th ST. TORRANCE, CA
Project Contact:
Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

JEL Project #: A5277
Page 1 of 2
Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☑ no
Sealed ☑ yes ☐ no

Analysis Requested

Sample ID	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Pb Lead (Free)	Metals (Contaminant Plants)					Number of Containers	Remarks/Special Instructions
BL06-13-SEB	SOUTH EAST BOTTOM	5/4/04	08:30	A5277-1	S	X	X					3	GLASS JAR-6 2 FENCORES
BL06-12-NEB	NORTHEAST BOTTOM	5/4/04	08:50	A5277-2	S	X	X					3	
BL06-7-NWW	NORTHWEST SIDEWALL	5/4/04	09:10	A5277-3	S	X	X					3	
BL06-13-WB	WEST BOTTOM	5/4/04	09:25	A5277-4	S	X	X					3	
BL06-10-NWW	NORTHWEST SIDEWALL	5/4/04	09:35	A5277-5	S	X	X					3	
BL06-10-WW	WEST SIDEWALL @ 10'	5/4/04	09:43	A5277-6	S	X	X					3	
BL06-4-WW	WEST SIDEWALL @ 4'	5/4/04	09:50	A5277-7	S	X	X					3	
BL06-10-SW	SOUTH SIDEWALL @ 10'	5/4/04	09:55	A5277-8	S	X	X					3	
BL06-4-SW	SOUTH SIDEWALL @ 4'	5/4/04	10:10	A5277-9	S	X	X					3	
BL06-10-EW	EAST SIDEWALL @ 15	5/4/04	10:20	A5277-10	S	X	X					3	

❶ Relinquished by (signature): [signature]	Date: 5/4/04	❷ Received by (signature): [signature]	Date: 5/4/04
Company: HART CROWSER	Time: 15:20	Company: JEL	Time: 15:20
❸ Relinquished by (signature):	Date:	❹ Received by Laboratory (signature):	Date:
Company:	Time:	Company:	Time:

Total Number of Containers

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL
TESTING LABORATORIES

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Fax (714) 449-9685

Chain-of-Custody Record

Client: HART CROWSER	Date: 5/4/04
Project Name: PACCAR	Client Project #: 16169
Project Address: 1206 W. 196th St. TORRANCE, CA	Turn Around Requested: ☐ Immediate Attention ☐ Rush 24-48 Hours ☐ Rush 72-96 Hours ☐ Normal ☒ Mobile Lab
Project Contact:	

JEL Project #: A5277

Page 2 of 2

Lab Use Only

Sample Condition as Received: Chilled ☐ yes ☒ no; Sealed ☐ yes ☐ no

Analysis Requested

Sample ID	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	8260 (FULL)	MRT-8015 (EXTENDED RANGE)					Number of Containers	Remarks/Special Instructions
BLU6-4-EW	EAST SIDEWALL @ 4'	5/4/05	10:30	A5277-11	S	X	X					3	GLASS JAR + 2 ENCORES
BLU6-0-NES		5/4/05	10:40	A5277-12	S	X	X					3	

❶ Relinquished by (signature): [signature]	Date: 5/4/04	❷ Received by (signature): [signature]	Date: 5/4/04
Company: HART CROWSER	Time: 15:20	Company: JEL	Time: 15:20
❸ Relinquished by (signature):	Date:	❹ Received by Laboratory (signature):	Date:
Company:	Time:	Company:	Time:

Total Number of Containers

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

PACCAR 04111

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Testing Laboratories

JONES ENVIRONMENTAL

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LABORATORY REPORT

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1267 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/05/04 05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

ANALYSES REQUESTED

1. Mod 8015 Diesel - Simulated Distillation Extended Range (EPA 2887)
2. EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1267
		Client Ref. No.:	16169
Attn:	Ron Halpern	**Date Sampled:**	05/05/04
		Date Received:	05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

	Sample ID Concentration (mg/Kg)		
Carbon Chain Range	BL06-4-WW2	BL06-10-WW2	BL06-4-SW2
C6-C7	**6.8**	ND	**12**
C8-C9	**130**	**3.4**	**440**
C10-C11	**81**	**6.7**	**210**
C12-C13	**1.2**	**2.0**	**20**
C14-C15	ND	ND	**1.8**
C16-C17	ND	ND	ND
C18-C19	ND	ND	**1.8**
C20-C23	ND	ND	**4.2**
C24-C27	ND	ND	**4.3**
C28-C31	ND	ND	**4.1**
C32-C35	ND	ND	**7.4**
C36-C39	ND	ND	**1.0**
C40-C43	ND	ND	ND
C44+	ND	ND	ND
Total	**220**	**12**	**710**
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	91%	93%	95%
Dilution Factor	1	1	1
Practical Quantitation limits	10	10	10

ND = Not Detected

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1267 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/05/04 05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: SP# 798 04-055

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	80%	82%	2.1%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1267 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/05/04 05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-WW2	BL06-10-WW2	BL06-4-SW2	Practical Quantitation Limits	Units
Analytes:					
Benzene	ND	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	**4.0**	**1900**	1.0	ug/Kg
sec-Butylbenzene	**450**	ND	**1100**	1.0	ug/Kg
tert-Butylbenzene	**14**	ND	**56**	1.0	ug/Kg
Carbon tetrachloride	ND	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	ND	1.0	ug/Kg
Chloroform	ND	ND	ND	1.0	ug/Kg
Chloromethane	ND	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	ND	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	**90**	ND	**280**	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1267 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/05/04 05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-WW2	BL06-10-WW2	BL06-4-SW2	Practical Quantitation Limits	Units
Analytes:					
1,2-Dichloroethane	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	ND	1.0	ug/Kg
Ethylbenzene	**2700**	**120**	**55000***	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	ND	1.0	ug/Kg
Isopropylbenzene	**360**	ND	ND	1.0	ug/Kg
4-Isopropyltoluene	**810**	**13**	**1700**	1.0	ug/Kg
Methylene chloride	ND	ND	ND	1.0	ug/Kg
Naphthalene	**910**	**59**	**6500***	1.0	ug/Kg
n-Propylbenzene	ND	ND	**610**	1.0	ug/Kg
Styrene	ND	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	1.0	ug/Kg
Tetrachloroethylene	ND	**20**	**11000***	1.0	ug/Kg
Toluene	**5.6**	**6.4**	**7700***	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1267 16169
Attn:	Ron Halpern	**Date Sampled:** **Date Received:**	05/05/04 05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-WW2	BL06-10-WW2	BL06-4-SW2	**Practical Quantitation Limits**	**Units**
Analytes:					
1,1,2-Trichloroethane	ND	ND	ND	1.0	ug/Kg
Trichloroethylene	**8.3**	**6.2**	**480**	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	**6100**	**150**	**49000***	1.0	ug/Kg
1,3,5-Trimethylbenzene	**1100**	ND	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	ND	1.0	ug/Kg
Xylenes	**3200**	**120**	**89000***	1.0	ug/Kg
MTBE	ND	ND	ND	1.0	ug/Kg
Dilution Factor	2	1	1/25*		
Surrogate Recovery:				**QC Limits**	
Dibromofluoromethane	101%	97%	100%	60 - 140	
Toluene-d_8	100%	98%	97%	60 - 140	
4-Bromofluorobenzene	--@	98%	100%	60 - 140	

ND = Not Detected
* = Dilutions for these compound(s); first number for all others
@ = Hydrocarbons present prevented adequate surrogate recovery

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/06/04
Client Address:	301 E. Ocean Blvd. Ste. 1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1267
		Client Ref. No.:	16169
Attn:	Ron Halpern	**Date Sampled:**	05/05/04
		Date Received:	05/05/04
Project:	PACCAR	**Date Analyzed:**	05/05/04
Project Address:	Torrance, CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	108%	111%	2.2%	60 - 140
Chlorobenzene	93%	97%	4.5%	60 - 140
Toluene	98%	103%	5.5%	60 - 140
Trichloroethylene	91%	91%	0.2%	60 - 140
1,1-Dichloroethylene	89%	92%	3.6%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

☐ 1910 Fairview Ave., E., Seattle WA 98102
☐ 2250 Denali St., #705, Anchorage, AK 99503
☐ Five Centerpointe Dr., Lake Oswego, OR 97035
☒ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
☐ 120 3rd Ave S., #110, Edmonds, WA 98020
☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

ST-1267

Sample Custody Record

HARTCROWSER

Samples Shipped To: JONES ENV.

JOB 161169 LAB NUMBER

PROJECT NAME PACCAR - ADDITIONAL EXCAVATION (BLDG)

HART CROWSER CONTACT RAM LIMAYE

SAMPLED BY: STEPHEN ADU-GYAMFI

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	8260	MPLS	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	BLDG-4-WW2		5/5/04	1320	SOIL	✓	✓	2	
	BLDG-10-WW2		"	1340	"			"	
	BLDG-4-SW2		"	1315	"	✓	✓	"	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE S.A. GYAMFI	5/5/04	SIGNATURE STEVE JONES	5/5/04
PRINT NAME HART CROWSER	TIME 17:00	PRINT NAME	TIME 17:00
COMPANY		COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. for Other Contract Requirements

TURNAROUND TIME: Rush - 12 HR
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☐ STANDARD
☐ 72 HOURS OTHER

White and Yellow Copies to Lab — Pink to Project Manager — Lab to Return White Copy to Hart Crowser — Gold to Sample Custodian

PACCAR 04119

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JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1271 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/06/04 05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

ANALYSES REQUESTED

1. Mod 8015 Diesel - Simulated Distillation Extended Range (EPA 2887)
2. EPA 5035B/8260B- Volatile Organics by GC/MS

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1271
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/06/04
		Date Received:	05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

	Sample ID Concentration (mg/Kg)	
Carbon Chain Range	BL06-4-SW3	BL06-4-WW3
C6-C7	**15**	**16**
C8-C9	**280**	**140**
C10-C11	**140**	**99**
C12-C13	**8.1**	**5.9**
C14-C15	ND	**1.6**
C16-C17	ND	**1.4**
C18-C19	ND	**2.2**
C20-C23	ND	**7.2**
C24-C27	ND	**10**
C28-C31	ND	**8.2**
C32-C35	ND	**1.6**
C36-C39	ND	ND
C40-C43	ND	ND
C44+	ND	ND
Total	**440**	**290**
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	87%	112%
Dilution Factor	1	1
Practical Quantitation limits	10	10

ND = Not Detected

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1271
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/06/04
		Date Received:	05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: S23 (A5278)

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	107%	107%	0.0%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1271 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/06/04 05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-SW3	BL06-4-WW3	Practical Quantitation Limits	Units
Analytes:				
Benzene	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	**170**	1.0	ug/Kg
sec-Butylbenzene	**1200**	**110**	1.0	ug/Kg
tert-Butylbenzene	**71**	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	1.0	ug/Kg
Chloroform	ND	ND	1.0	ug/Kg
Chloromethane	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	**32**	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected
* = Dilutions for these compound(s); first number for all others

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1271 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/06/04 05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-SW3	BL06-4-WW3	**Practical Quantitation Limits**	**Units**
Analytes:				
1,2-Dichloroethane	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	1.0	ug/Kg
Ethylbenzene	**7700***	**12800***	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	1.0	ug/Kg
Isopropylbenzene	**840**	**41**	1.0	ug/Kg
4-Isopropyltoluene	**910***	**360**	1.0	ug/Kg
Methylene chloride	ND	ND	1.0	ug/Kg
Naphthalene	**6000***	**2400***	1.0	ug/Kg
n-Propylbenzene	ND	ND	1.0	ug/Kg
Styrene	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	1.0	ug/Kg
Tetrachloroethylene	**3900***	**370**	1.0	ug/Kg
Toluene	**7200***	**350**	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	1.0	ug/Kg

ND = Not Detected
* = Dilutions for these compound(s); first number for all others

PACCAR 04124

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1271 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/06/04 05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	BL06-4-SW3	BL06-4-WW3	Practical Quantitation Limits	Units
Analytes:				
1,1,2-Trichloroethane	ND	ND	1.0	ug/Kg
Trichloroethylene	***490***	***180***	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	**35600***	**9800***	1.0	ug/Kg
1,3,5-Trimethylbenzene	**16500***	**2400***	1.0	ug/Kg
Vinyl chloride	ND	ND	1.0	ug/Kg
Xylenes	**63500***	**20000***	1.0	ug/Kg
MTBE	ND	ND	1.0	ug/Kg
Dilution Factor	1/20*	1/20*		
Surrogate Recovery :			**QC Limits**	
Dibromofluoromethane	95%	97%	60 - 140	
Toluene-d_8	104%	92%	60 - 140	
4-Bromofluorobenzene	--@	97%	60 - 140	

ND = Not Detected
* = Dilutions for these compound(s); first number for all others
@ = Hydrocarbons present in this sample prevented adequate surrogate recovery.

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/07/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1271
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/06/04
		Date Received:	05/06/04
Project:	Paccar	**Date Analyzed:**	05/06/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: Clean Soil

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	115%	106%	8.4%	60 - 140
Chlorobenzene	110%	102%	6.9%	60 - 140
Toluene	108%	94%	13%	60 - 140
Trichloroethylene	102%	92%	9.8%	60 - 140
1,1-Dichloroethylene	96%	88%	10%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

☐ 1910 Fairview Ave., E., Seattle WA 98102
☐ 2250 Denali St., #705, Anchorage, AK 99503
☐ Five Centerpointe Dr., Lake Oswego, OR 97035
☒ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
☐ 120 3rd Ave S., #110, Edmonds, WA 98020
☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

Sample Custody Record

HARTCROWSER

Samples Shipped To: _____

ST-1271

JOB 16169 LAB NUMBER _____

PROJECT NAME PACCAR - ADDITIONAL EXCAVATION (BL06)

HART CROWSER CONTACT RAVI LIMAYE

SAMPLED BY: STEPHEN A. GYAMFI

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	8260	VOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
ST-1271-1	BL06-4-	SW3	5/6/04	1445	SOIL	↓	↓	2	
ST-1271-2	BL06-4-	WW3	X	1455	X	↓	↓	X	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	5/6/04	SIGNATURE	5/6/04
PRINT NAME Stephen A. Gyamfi	TIME	PRINT NAME Karen Prome	TIME
COMPANY Hart Crowser	1635	COMPANY JEL	1635

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☐ STANDARD
☐ 72 HOURS OTHER _____

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

PACCAR 04127

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Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1279 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/11/04 05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

ANALYSES REQUESTED

1. Mod 8015 Diesel - Simulated Distillation Extended Range (EPA 2887)
2. EPA 5035B/8260B- Volatile Organics by GC/MS

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1279 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/11/04 05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

	Sample ID Concentration (mg/Kg)			
Carbon Chain Range	SP-BL06-01	SP-BL06-02	SP-CL-01	SP-CL-02
C6-C7	ND	ND	ND	ND
C8-C9	ND	**48**	ND	ND
C10-C11	ND	**120**	ND	ND
C12-C13	ND	**9.5**	ND	ND
C14-C15	ND	ND	ND	ND
C16-C17	ND	ND	ND	ND
C18-C19	ND	ND	ND	ND
C20-C23	ND	ND	ND	ND
C24-C27	ND	ND	ND	ND
C28-C31	ND	ND	ND	ND
C32-C35	ND	ND	ND	ND
C36-C39	ND	ND	ND	ND
C40-C43	ND	ND	ND	ND
C44+	ND	ND	ND	ND
Total	ND	**180**	ND	ND
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	74%	81%	73%	76%
Dilution Factor	1	1	1	1
Practical Quantitation limits	10	10	10	10

ND = Not Detected

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1279 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/11/04 05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: CLEAN SOIL

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	96%	88%	8.5%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1279 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/11/04 05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample ID:	SP-BL06-01	SP-BL06-02	SP-CL-01	SP-CL-02	Practical Quantitation Limits	Units
Analytes:						
Benzene	ND	ND	ND	ND	1.0	ug/Kg
Bromobenzene	ND	ND	ND	ND	1.0	ug/Kg
Bromochloromethane	ND	ND	ND	ND	1.0	ug/Kg
Bromodichloromethane	ND	ND	ND	ND	1.0	ug/Kg
Bromoform	ND	ND	ND	ND	1.0	ug/Kg
Bromomethane	ND	ND	ND	ND	1.0	ug/Kg
n-Butylbenzene	ND	**650***	ND	ND	1.0	ug/Kg
sec-Butylbenzene	ND	**320**	ND	ND	1.0	ug/Kg
tert-Butylbenzene	ND	ND	ND	ND	1.0	ug/Kg
Carbon tetrachloride	ND	ND	ND	ND	1.0	ug/Kg
Chlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
Chloroethane	ND	ND	ND	ND	1.0	ug/Kg
Chloroform	ND	ND	ND	ND	1.0	ug/Kg
Chloromethane	ND	ND	ND	ND	1.0	ug/Kg
2-Chlorotoluene	ND	ND	ND	ND	1.0	ug/Kg
4-Chlorotoluene	ND	ND	ND	ND	1.0	ug/Kg
Dibromochloromethane	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	1.0	ug/Kg
Dibromomethane	ND	ND	ND	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

Jones Environmental, Inc.

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1279 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/11/04 05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample ID:	SP-BL06-01	SP-BL06-02	SP-CL-01	SP-CL-02	Practical Quantitation Limits	Units
Analytes:						
1,2-Dichloroethane	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	ND	ND	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	ND	ND	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	ND	ND	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	ND	ND	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	ND	ND	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	ND	ND	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	ND	ND	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	ND	ND	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	ND	ND	ND	1.0	ug/Kg
Ethylbenzene	ND	**2000***	ND	ND	1.0	ug/Kg
Hexachlorobutadiene	ND	ND	ND	ND	1.0	ug/Kg
Isopropylbenzene	ND	**65**	ND	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	**732**	ND	ND	1.0	ug/Kg
Methylene chloride	ND	ND	ND	ND	1.0	ug/Kg
Naphthalene	ND	**1500***	ND	ND	1.0	ug/Kg
n-Propylbenzene	ND	ND	ND	ND	1.0	ug/Kg
Styrene	**3.8**	**57**	ND	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	1.0	ug/Kg
Tetrachloroethylene	ND	**192**	**8.3**	ND	1.0	ug/Kg
Toluene	ND	**72**	ND	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	ND	ND	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	ND	ND	ND	1.0	ug/Kg

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1279
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/11/04
		Date Received:	05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample ID:	SP-BL06-01	SP-BL06-02	SP-CL-01	SP-CL-02	Practical Quantitation Limits	Units
Analytes:						
1,1,2-Trichloroethane	ND	ND	ND	ND	1.0	ug/Kg
Trichloroethylene	**9.4***	**19**	**3.4**	**3.7**	1.0	ug/Kg
Trichlorofluoromethane	ND	ND	ND	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	ND	ND	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	ND	**5400***	ND	ND	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	**1800**	ND	ND	1.0	ug/Kg
Vinyl chloride	ND	ND	ND	ND	1.0	ug/Kg
Xylenes	ND	**3400***	ND	ND	1.0	ug/Kg
MTBE	ND	ND	ND	ND	1.0	ug/Kg
Dilution Factor	1/5*	10/100*	1	1		
Surrogate Recovery :					**QC Limits**	
Dibromofluoromethane	87%	89%	88%	96%	60 - 140	
Toluene-d_8	104%	102%	94%	103%	60 - 140	
4-Bromofluorobenzene	97%	99%	81%	94%	60 - 140	

ND = Not Detected
.* = Dilutions for these compound(s); first number for all others

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/17/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1279
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/11/04
		Date Received:	05/11/04
Project:	Paccar	**Date Analyzed:**	05/12/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: CLEAN SOIL

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	115%	105%	9.7%	60 - 140
Chlorobenzene	109%	102%	7.0%	60 - 140
Toluene	101%	93%	8.4%	60 - 140
Trichloroethylene	94%	86%	8.8%	60 - 140
1,1-Dichloroethylene	94%	91%	3.1%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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☐ 2250 Denali St., #705, Anchorage, AK 99503
☐ Five Centerpointe Dr., Lake Oswego, OR 97035
☒ 301 E. Ocean Blvd., #1950, Long Beach CA 90802
☐ 120 3rd Ave S., #110, Edmonds, WA 98020
☐ 811 Church Hill Rd., # 236, Cherry Hill, NJ 08002

ST-1279

Sample Custody Record

HARTCROWSER

Samples Shipped To: JONES ENV.

JOB 16169 & 16170 LAB NUMBER

PROJECT NAME PACCAR - BLOG & CLARIFIER AREA EXCAVATION

HART CROWSER CONTACT RAVI LIMAYE

SAMPLED BY: STEPHEN ADU-GYAMFI

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	VOCs 8260	TPH-Dx	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
1	SP-BLOG-01		5/11/04	1150	SOIL	↓	↓	2	
2	SP-BLOG-02		↓	1210	↓			↓	
3	SP-CL-01			1235					
4	SP-CL-02		✓	1300	✓	✓	✓	✓	
5									

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE	5-11-04
PRINT NAME Stephen A. Gyamfi	TIME	PRINT NAME	TIME
COMPANY Hart Crowser		COMPANY JEL	16:50

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE		SIGNATURE	
PRINT NAME	TIME	PRINT NAME	TIME
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

note for SP-BLOG - Job #=16169
SP-CL " " =16170

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____
for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS ☐ YES ☐ NO ☐ N/A
GOOD CONDITION ☐ YES ☐ NO
TEMPERATURE
SHIPMENT METHOD ☐ HAND ☐ COURIER ☐ OVERNIGHT

TURNAROUND TIME: 5-DAY TAT
☐ 24 HOURS ☐ 1 WEEK
☐ 48 HOURS ☐ STANDARD
☐ 72 HOURS OTHER _____

White and Yellow Copies to Lab Pink to Project Manager Lab to Return White Copy to Hart Crowser Gold to Sample Custodian

PACCAR 04135

ATTACHMENT B-2
CERTIFICATES OF ANALYSIS
ADVANCED TECHNOLOGY LABORATORIES - SVOCS AND METALS DATA

May 17, 2004

RECEIVED
MAY 25 2004
BY:.....

Ravi Limaye
Hart Crowser, Inc.
301 E. Ocean Blvd., Ste. 1950
Long Beach, CA 90802
TEL: (562) 733-1740
FAX: (562) 733-1750

ELAP No.: 1838
NELAP No.: 02107CA
Workorder No.: 068933

RE: PACCAR-BLDG & CLARIFIER AREA EXCA

Attention: Ravi Limaye

Enclosed are the results for sample(s) received on May 11, 2004 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

This cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 11:45:00 AM
Lab ID:	068933-001A	**Matrix:**	SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
(EPA 3550B) **EPA 8270C**

RunID: MS6_040514A QC Batch: 18234 PrepDate 5/14/2004 Analyst: IG

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,2-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,3-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,4-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	5/14/2004
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	5/14/2004
2,4-Dichlorophenol	ND	1600		µg/Kg	1	5/14/2004
2,4-Dimethylphenol	ND	330		µg/Kg	1	5/14/2004
2,4-Dinitrophenol	ND	1600		µg/Kg	1	5/14/2004
2,4-Dinitrotoluene	ND	330		µg/Kg	1	5/14/2004
2,6-Dinitrotoluene	ND	330		µg/Kg	1	5/14/2004
2-Chloronaphthalene	ND	330		µg/Kg	1	5/14/2004
2-Chlorophenol	ND	330		µg/Kg	1	5/14/2004
2-Methylnaphthalene	ND	330		µg/Kg	1	5/14/2004
2-Methylphenol	ND	330		µg/Kg	1	5/14/2004
2-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
2-Nitrophenol	ND	330		µg/Kg	1	5/14/2004
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	5/14/2004
3-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	5/14/2004
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	5/14/2004
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	5/14/2004
4-Chloroaniline	ND	660		µg/Kg	1	5/14/2004
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	5/14/2004
4-Methylphenol	ND	330		µg/Kg	1	5/14/2004
4-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
4-Nitrophenol	ND	1600		µg/Kg	1	5/14/2004
Acenaphthene	ND	330		µg/Kg	1	5/14/2004
Acenaphthylene	ND	330		µg/Kg	1	5/14/2004
Anthracene	ND	330		µg/Kg	1	5/14/2004
Benzidine (M)	ND	1600		µg/Kg	1	5/14/2004
Benzo(a)anthracene	ND	330		µg/Kg	1	5/14/2004
Benzo(a)pyrene	ND	330		µg/Kg	1	5/14/2004
Benzo(b)fluoranthene	ND	330		µg/Kg	1	5/14/2004
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	5/14/2004
Benzo(k)fluoranthene	ND	330		µg/Kg	1	5/14/2004
Benzoic acid	ND	1600		µg/Kg	1	5/14/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 11:45:00 AM
Lab ID:	068933-001A	**Matrix:**	SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
(EPA 3550B) **EPA 8270C**

RunID: MS6_040514A QC Batch: 18234 PrepDate 5/14/2004 Analyst: IG

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	5/14/2004
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	5/14/2004
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	5/14/2004
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	5/14/2004
Bis(2-ethylhexyl)phthalate	340	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	480	330		µg/Kg	1	5/14/2004
Chrysene	ND	330		µg/Kg	1	5/14/2004
Di-n-butylphthalate	ND	330		µg/Kg	1	5/14/2004
Di-n-octylphthalate	ND	330		µg/Kg	1	5/14/2004
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	5/14/2004
Dibenzofuran	ND	330		µg/Kg	1	5/14/2004
Diethylphthalate	ND	330		µg/Kg	1	5/14/2004
Dimethylphthalate	ND	330		µg/Kg	1	5/14/2004
Fluoranthene	ND	330		µg/Kg	1	5/14/2004
Fluorene	ND	330		µg/Kg	1	5/14/2004
Hexachlorobenzene	ND	330		µg/Kg	1	5/14/2004
Hexachlorobutadiene	ND	660		µg/Kg	1	5/14/2004
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	5/14/2004
Hexachloroethane	ND	330		µg/Kg	1	5/14/2004
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	5/14/2004
Isophorone	ND	330		µg/Kg	1	5/14/2004
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	5/14/2004
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	5/14/2004
Naphthalene	ND	330		µg/Kg	1	5/14/2004
Nitrobenzene	ND	330		µg/Kg	1	5/14/2004
Pentachlorophenol	ND	1600		µg/Kg	1	5/14/2004
Phenanthrene	ND	330		µg/Kg	1	5/14/2004
Phenol	ND	330		µg/Kg	1	5/14/2004
Pyrene	ND	330		µg/Kg	1	5/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 11:45:00 AM
Lab ID:	068933-001A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_040515A	QC Batch: 18227			PrepDate	5/13/2004	Analyst: RQ
Antimony	ND	1.0		mg/Kg	1	5/15/2004
Arsenic	6.4	1.0		mg/Kg	1	5/15/2004
Barium	100	1.0		mg/Kg	1	5/15/2004
Beryllium	ND	1.0		mg/Kg	1	5/15/2004
Cadmium	ND	1.0		mg/Kg	1	5/15/2004
Chromium	24	1.0		mg/Kg	1	5/15/2004
Cobalt	10	1.0		mg/Kg	1	5/15/2004
Copper	21	1.0		mg/Kg	1	5/15/2004
Lead	10	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	15	1.0		mg/Kg	1	5/15/2004
Selenium	5.0	1.0		mg/Kg	1	5/15/2004
Silver	ND	1.0		mg/Kg	1	5/15/2004
Thallium	ND	1.0		mg/Kg	1	5/15/2004
Vanadium	44	1.0		mg/Kg	1	5/15/2004
Zinc	55	1.0		mg/Kg	1	5/15/2004
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_040514A	QC Batch: 18229			PrepDate	5/13/2004	Analyst: JT
Mercury	ND	0.10		mg/Kg	1	5/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:00:00 PM
Lab ID:	068933-002A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS (EPA 3550B)				**EPA 8270C**		
RunID: MS6_040514A	QC Batch: 18234				PrepDate 5/14/2004	Analyst: IG
1,2,4-Trichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,2-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,3-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
1,4-Dichlorobenzene	ND	330		µg/Kg	1	5/14/2004
2,4,5-Trichlorophenol	ND	330		µg/Kg	1	5/14/2004
2,4,6-Trichlorophenol	ND	330		µg/Kg	1	5/14/2004
2,4-Dichlorophenol	ND	1600		µg/Kg	1	5/14/2004
2,4-Dimethylphenol	ND	330		µg/Kg	1	5/14/2004
2,4-Dinitrophenol	ND	1600		µg/Kg	1	5/14/2004
2,4-Dinitrotoluene	ND	330		µg/Kg	1	5/14/2004
2,6-Dinitrotoluene	ND	330		µg/Kg	1	5/14/2004
2-Chloronaphthalene	ND	330		µg/Kg	1	5/14/2004
2-Chlorophenol	ND	330		µg/Kg	1	5/14/2004
2-Methylnaphthalene	ND	330		µg/Kg	1	5/14/2004
2-Methylphenol	ND	330		µg/Kg	1	5/14/2004
2-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
2-Nitrophenol	ND	330		µg/Kg	1	5/14/2004
3,3'-Dichlorobenzidine	ND	660		µg/Kg	1	5/14/2004
3-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
4,6-Dinitro-2-methylphenol	ND	1600		µg/Kg	1	5/14/2004
4-Bromophenyl-phenylether	ND	330		µg/Kg	1	5/14/2004
4-Chloro-3-methylphenol	ND	660		µg/Kg	1	5/14/2004
4-Chloroaniline	ND	660		µg/Kg	1	5/14/2004
4-Chlorophenyl-phenylether	ND	330		µg/Kg	1	5/14/2004
4-Methylphenol	ND	330		µg/Kg	1	5/14/2004
4-Nitroaniline	ND	1600		µg/Kg	1	5/14/2004
4-Nitrophenol	ND	1600		µg/Kg	1	5/14/2004
Acenaphthene	ND	330		µg/Kg	1	5/14/2004
Acenaphthylene	ND	330		µg/Kg	1	5/14/2004
Anthracene	ND	330		µg/Kg	1	5/14/2004
Benzidine (M)	ND	1600		µg/Kg	1	5/14/2004
Benzo(a)anthracene	ND	330		µg/Kg	1	5/14/2004
Benzo(a)pyrene	ND	330		µg/Kg	1	5/14/2004
Benzo(b)fluoranthene	ND	330		µg/Kg	1	5/14/2004
Benzo(g,h,i)perylene	ND	330		µg/Kg	1	5/14/2004
Benzo(k)fluoranthene	ND	330		µg/Kg	1	5/14/2004
Benzoic acid	ND	1600		µg/Kg	1	5/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:00:00 PM
Lab ID:	068933-002A	**Matrix:**	SOIL

SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS
(EPA 3550B) **EPA 8270C**

RunID: MS6_040514A QC Batch: 18234 PrepDate 5/14/2004 Analyst: IG

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
Benzyl alcohol	ND	660		µg/Kg	1	5/14/2004
Bis(2-chloroethoxy)methane	ND	330		µg/Kg	1	5/14/2004
Bis(2-chloroethyl)ether	ND	330		µg/Kg	1	5/14/2004
Bis(2-chloroisopropyl)ether	ND	330		µg/Kg	1	5/14/2004
Bis(2-ethylhexyl)phthalate	3600	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	1900	330		µg/Kg	1	5/14/2004
Chrysene	ND	330		µg/Kg	1	5/14/2004
Di-n-butylphthalate	760	330		µg/Kg	1	5/14/2004
Di-n-octylphthalate	ND	330		µg/Kg	1	5/14/2004
Dibenz(a,h)anthracene	ND	330		µg/Kg	1	5/14/2004
Dibenzofuran	ND	330		µg/Kg	1	5/14/2004
Diethylphthalate	ND	330		µg/Kg	1	5/14/2004
Dimethylphthalate	ND	330		µg/Kg	1	5/14/2004
Fluoranthene	ND	330		µg/Kg	1	5/14/2004
Fluorene	ND	330		µg/Kg	1	5/14/2004
Hexachlorobenzene	ND	330		µg/Kg	1	5/14/2004
Hexachlorobutadiene	ND	660		µg/Kg	1	5/14/2004
Hexachlorocyclopentadiene	ND	660		µg/Kg	1	5/14/2004
Hexachloroethane	ND	330		µg/Kg	1	5/14/2004
Indeno(1,2,3-cd)pyrene	ND	330		µg/Kg	1	5/14/2004
Isophorone	ND	330		µg/Kg	1	5/14/2004
N-Nitrosodi-n-propylamine	ND	330		µg/Kg	1	5/14/2004
N-Nitrosodiphenylamine	ND	330		µg/Kg	1	5/14/2004
Naphthalene	590	330		µg/Kg	1	5/14/2004
Nitrobenzene	ND	330		µg/Kg	1	5/14/2004
Pentachlorophenol	ND	1600		µg/Kg	1	5/14/2004
Phenanthrene	ND	330		µg/Kg	1	5/14/2004
Phenol	ND	330		µg/Kg	1	5/14/2004
Pyrene	ND	330		µg/Kg	1	5/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-BLDG-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	*5/11/2004 12:00:00 PM*
Lab ID:	068933-002A	**Matrix:**	SOIL

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	(EPA 3050A)			**EPA 6010B**		
RunID: ICP5_040515A	QC Batch: 18227			PrepDate	5/13/2004	Analyst: RQ
Antimony	ND	1.0		mg/Kg	1	5/15/2004
Arsenic	2.6	1.0		mg/Kg	1	5/15/2004
Barium	150	1.0		mg/Kg	1	5/15/2004
Beryllium	ND	1.0		mg/Kg	1	5/15/2004
Cadmium	ND	1.0		mg/Kg	1	5/15/2004
Chromium	23	1.0		mg/Kg	1	5/15/2004
Cobalt	10	1.0		mg/Kg	1	5/15/2004
Copper	17	1.0		mg/Kg	1	5/15/2004
Lead	7.5	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	15	1.0		mg/Kg	1	5/15/2004
Selenium	4.2	1.0		mg/Kg	1	5/15/2004
Silver	ND	1.0		mg/Kg	1	5/15/2004
Thallium	ND	1.0		mg/Kg	1	5/15/2004
Vanadium	46	1.0		mg/Kg	1	5/15/2004
Zinc	52	1.0		mg/Kg	1	5/15/2004
MERCURY BY COLD VAPOR TECHNIQUE						
	(EPA 7471)			**EPA 7471A**		
RunID: AA1_040514A	QC Batch: 18229			PrepDate	5/13/2004	Analyst: JT
Mercury	ND	0.10		mg/Kg	1	5/14/2004

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interfere
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

APPENDIX C
RECON - COMPACTION REPORTS

Appendix C

PACCAR 04144

SMITH-EMERY LABORATORIES
An Independent Commercial Testing Laboratory, Established 1904
791 E. Washington Boulevard
Los Angeles, California 90021
(213) 741-5713
Fax (213) 741-8620

May 24, 2004

SEL File No.: 33855-1
SEL Report No.: G-04-6372

RECON
Attention: Mr. J. R. Frederics
1101 California Avenue # 100
Corona CA 92881

RE: Mighty Machines (Area BL-06)
19706 Normandie Ave.
Torrance, California

SUBJECT: COMPACTION TESTING

REPORT OF TESTS

In compliance with your request, Smith-Emery Laboratories has conducted standard compaction testing for the above referenced project.

Field density tests to determine relative compaction were conducted in accordance with ASTM D1556-90 sandcone method and ASTM D2922-91, nuclear method.

Test locations and results are presented on the attached Table 1. The maximum laboratory density at optimum moisture content of typical soils used as fill material was determined in accordance with ASTM D1557-91, five layer method. Test results are presented on the attached Table 2.

In areas where clayey soils are used as subgrade fill material, soil moisture content should be above optimum. Expansion index testing should be performed to determine the expansion potential of the soil. The soil's expansion potential will be used to determine the degree of pre-saturation required immediately prior to placing aggregate base, floor slab, and other flatwork.

Respectfully submitted,

SMITH-EMERY LABORATORIES

NOTE: This report contains a weekly summary of compaction test results only and it should not be submitted to City or County grading departments as a certified compaction earth fill report.

Simon Bittar

SIMON BITTAR
Project Manager
SB/ms
cc: Addressee

Anaheim
1195 Tustin Avenue
Anaheim, California 92807
(714) 238-6405
Fax (714) 238-6144

San Francisco
Hunters Point Shipyard P.O.Box 880550
San Francisco, California 94188
(415) 330-5000
Fax (415) 330-3030

SMITH-EMERY GEOSERVICES

PROJECT: Mighty Machine/RECON
LOCATION: 19706 Normadie Ave., Torrance CA
May 24, 2004

FILE NO. 33855-1
REPORT NO. G-04-6372

TABLE NO. 1

RESULTS OF FIELD DENSITY TESTING

TEST METHOD KEY

SC - Sand-cone
NG - Nuclear Gauge
DT - Drive Tube

LOCATION KEY

[illegible]	[illegible]	[illegible]	[illegible]	Ea - East	So - South	No - North	AB - Aggregate Base	DWY - Driveway	SP - Seepage Pit
BP - Building Pad		W - Water	G - Gas	We - West	PPW - Processing Pit Wall		AC - Asphalt Concrete	CRB - Curb	MH - Manhole
FB - Footing Bottom		[illegible]	F - Fire	SD - Storm Drain	RW - Retaining Wall		CS - Concrete Slab	GUT - Gutter	ST - Storage Tank

Test No.	Date	Test Type	Location Key Elev. Or Depth (ft)	Moisture Content (%)	Dry Density (pcf)	Relative Compaction Actual	Relative Compaction Specified	Soil Type	Saturation (%)	Coordinate Location	MDD
1	5/11/2004	SC	BTM,EXC area BL-05, -4' FSG	10.7	110.6	90.0	90	1	57.3		123.1
2	5/11/2004	NG	BF,EXC area BL-06 -2' FSG	11.2	112.0	91.0	90	1	62.4		123.1
3	5/12/2004	NG	BF,EXC area BL-06, FSG	11.8	114.5	93.0	90	1	69.8		123.1

Note: After removing contaminated soil from an area 25' x 20' x 4' deep, fill (CMB) considered clean by Recon was placed in thin layers, compacted and tested.

Jun-10-04 03:32P

SMITH-EMERY GEOSERVICES

PROJECT: Mighty Machine/RECON
LOCATION: 19706 Normadie Ave., Torrance CA

FILE NO.: 33855-1
REPORT NO.: G-04-6372

TABLE NO. 2
ASTM D1557-91

SOIL TYPE	MAX. DRY DENSITY (%)	OPT MOIST CONT (%)	DESCRIPTION	%CLAY	SOURCE
1	123.1	10.9	CMB		Import

APPENDIX D
WASTE PROFILE SHEETS

Profile Number: AV060504
Expiration Date:

WASTE PROFILE SHEET
TERMS & CONDITIONS

Service Agreement on File? ☒ Yes ☐ No

This form is to be used to comply with the requirements of governmental waste screening criteria.

Profile Addendum Attached? ☐ Yes ☐ No

A. Waste Generator Information

1. Generator/Site Name: PACCAR Inc.
2. SIC Code: 5131 - Dynatek
3. Site Address: 19706 S. Normandie Ave.
4. Site City: Los Angeles
5. Site State: CA
7. Zip Code: 90502
6. Site Country: United States
8. Generator USEPA/Federal ID#: Not Applicable
9. Site Phone: 425-468-7901
10. Customer Name: Hart Crowser, 301 E. Ocean Blvd., Long Beach
11. Customer Phone: 562-733-1740
12. Customer Contact: Mr. Ravi Limaye, PE
13. Customer FAX: 562-733-1750

B. Waste Stream Information

1. Waste Description, Category ; Non Hazardous/Non Designated Waste Soil
2. State Waste Code: None
3. Process Generating Waste: Site remediation / investigation - general site excavation and excavation near former clarifier area
4. Transporter/Transfer Station: Antelope Valley Landfill (AV)
5. Shipping Method: end dump
6. Estimated Quantity (Weight & Vol.) : 65 – 150 tons per ☒ Job ☐ Year ☐ Other _____
7. Delivery Date(s): June 2004
8. Personal Protective Equipment Requirements: as necessary
9. Is this a US Dept. of Transportation (USDOT) Hazardous Material? ☐ Yes ☒ No (If no, skip 10, 11 and 12)
10. Reportable Quantity: Not Applicable
11. Hazard Class / I.D. #: Not Applicable
12. Shipping Name: Not Applicable

x Check if additional information is attached. Indicate the number of attached pages: 5

C. Generator's Certification (Please check appropriate responses; sign and date reverse side)

		Yes	No	
1.	Is the waste represented by this waste profile sheet a "Hazardous Waste" as defined by USEPA, Canadian, Mexican, State, or Provincial regulation?	☐	x	
2.	Does the waste represented by this waste profile sheet contain regulated radioactive material or regulated concentrations of Polychlorinated Biphenyls (PCBs)?	☐	x	
3.	Does this waste profile sheet and all attachments contain true and accurate descriptions of the waste material?	x	☐	
4.	Has all relevant information within the possession of the Generator and Customer regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor?	x	☐	
5.	Is the analytical data attached hereto derived from testing a representative sample in accordance with 40 CFR 261.20(c) or equivalent rules?	x	☐	☐ N/A
6.	Will all changes that occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor?	x	☐	

D. WM Management's Decision

1. Management Method: _____
2. Reliability/Information Verified? ☐ Yes ☐ No
3. Designated Facility: _____
4. Hours of acceptance: _____ ☐ N/A
5. Precautions, Special Handling Procedures, or Limitations on Approval: _____

Generic Approval: ☐ Yes ☐ No Special Waste Decision: ☐ Approved ☐ Disapproved

Sales Person: _____ Date: _____ Technical Manager: _____ Date: _____

GENERATOR AND CUSTOMER MUST READ AND SIGN REVERSE HEREOF

Terms & Conditions as described in the Master Industrial Waste & Disposal Services Agreement dated July 14, 2003 between PACCAR Inc and Waste Management National Services, Inc. (Attached)

CUSTOMER:	GENERATOR:	COMPANY:
(AUTHORIZED SIGNATURE) Ravi Limaye, PE Hart Crowser, Inc.	(AUTHORIZED SIGNATURE) Fred Benz, PE PACCAR Inc	(AUTHORIZED SIGNATURE) (NAME, TITLE)
DATE:	DATE: 6/4/04	DATE:

106447 v01.SE (2@4V01!.DOC) (#106447 v1 - Landfill Services Waste Profile and Terms)
06/04/04 1:25 PM

APPENDIX E
WASTE MANIFESTS
MB TRUCKING

Appendix E

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name: MB Trucking
6. US EPA ID Number: CAR000114694
A. Transporter's Phone: (909) 648-5168

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1200 WEST CITY RANCH ROAD
PALMDALE, CA 93551

10. US EPA ID Number:
C. Facility's Phone: (661) 223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	001	07	00018	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11) SOIL
PROFILE #AV0.0504

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]			

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Carlos Vasquez	[illegible]	06	18	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space
23.58

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
	[illegible]	6	18	04

GENERATOR

TRANSPORTER

FACILITY

T/S/D/F COPY

PACCAR 04152

(DRIVER: PLEASE SIGN BELOW) 6359197

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
297823
06/18/2004

(PLEASE SIGN HERE)

LOCATION:
LOC ID County ST Pct
LACITY LA CA 100%

GROSS: 39.580
TARE: 16.000 (File)
NET: 23.580

	Oper	Time	Date
In:	KEA	04:31 PM	06/18/2004
Out:	KEA	04:31 PM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS
PACCAR INC.

CUSTOMER NO.	TRUCK NO.	
0000201	9B90891	IND

PROFILE NO.
AV060504

MANIFEST NO.

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL GATE FEE:		

PACCAR 04153

9BC 0891

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name: MB Trucking
6. US EPA ID Number: CAR000.11.46.94
A. Transporter's Phone: (909) 648-5168

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1200 WEST CITY RANCH ROAD
PALMDALE, CA 93551

10. US EPA ID Number:
C. Facility's Phone: (661) 223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	001	DT	00018	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11) SOIL
PROFILE #AV060504

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
RAVI LIMAYE AGENT FOR PACCAR	R. S. Limaye	06	15	04

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Carlos Vasquez	[signature]	06	18	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
	RW Tons 2400			

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER # 1

PACCAR 04154

(DRIVER: PLEASE SIGN BELOW) 6358022

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO. 297642
06/18/2004

Loc ID	County	ST Pct
LACITY	LA	CA 100%

(PLEASE SIGN HERE) LOCATION:

Carter Vaughn

GROSS: 40.020
TARE: 16.000 (File)
NET: 24.020

	Oper	Time	Date
In:	RLW	11:10 AM	06/18/2004
Out:	RLW	11:10 AM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS pacCar

CUSTOMER NO.	TRUCK NO.	
0000201	9B90891	IND

PROFILE NO. AV060504

CUSTOMER Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

MANIFEST NO.

PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL GATE FEE:		

PACCAR 04155

93 90 963

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Document No.:
2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009
4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name: MTS Trucking
6. US EPA ID Number: 00X00119694
A. Transporter's Phone: 909 208-0675

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1200 WEST CITY RANCH ROAD
PALMDALE CA 93551
10. US EPA ID Number:
C. Facility's Phone: (661)223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	001	DT	00018	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11) SOIL
PROFILE #AV060504

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING.

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: AGENT FOR PACCAR
Signature: [signature]
Month Day Year: 06 18 04

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Armando Rodriguez
Signature: [signature]
Month Day Year: 06 18 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Month Day Year:

TRANSPORTER # 1

PACCAR 04156

(DRIVER: PLEASE SIGN BELOW)

6359032

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
297621
06/18/2004

(PLEASE SIGN HERE)

LOCATION: County ST Pct
LACITY LA CA 100%

GROSS: 40.210
TARE: 15.900 (File)
NET: 24.310

	Oper	Time	Date
In:	IFS	10:44 AM	06/18/2004
Out:	IFS	10:44 AM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS
PACCAR, INC.

CUSTOMER NO.	TRUCK NO.	
0000201	9B90963	IND

PROFILE NO.
AV060504

MANIFEST NO.

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL	GATE FEE:	

PACCAR 04157

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M / B

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1910
BELLEVUE, WA 98009

4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name: MB Transport

6. US EPA ID Number: CAR 000114694

A. Transporter's Phone: 909 208 0675

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1200 WEST CITY RANCH ROAD
PALMDALE, CA 93551

10. US EPA ID Number

C. Facility's Phone (661) 223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	001	DT	00018	7
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11) SOIL
PROFILE #AV060504

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Armando Rodriguez	[illegible]	06	18	04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

2638

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
	Kate Arellano	06	18	04

GENERATOR

TRANSPORTER

FACILITY

T/S/D/F COPY

PACCAR 04158

(DRIVER: PLEASE SIGN BELOW)

6359170

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
297784
06/18/2004

(PLEASE SIGN HERE)

LOCATION: County ST Pct
LACITY LA CA 100%

GROSS: 42.280
TARE: 15.900 (File)
NET: 26.380

	Oper	Time	Date
In:	KEA	03:25 PM	06/18/2004
Out:	KEA	03:25 PM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS
PACCAR INC

CUSTOMER NO.	TRUCK NO.	
0000201	9B90963	IND

PROFILE NO.
AV060504

MANIFEST NO.

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL GATE FEE:		

PACCAR 04159

9897772

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N A A

Manifest Document No.

2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name: MB TRUCKING

6. US EPA ID Number: CAC000114694

A. Transporter's Phone: 909 545 9274

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1200 WEST CITY RANCH ROAD
PALMDALE, CA 93551

10. US EPA ID Number

C. Facility's Phone (661) 223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	001	DT	00018	T
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11)SOIL
PROFILE #AV060504

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING.

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month 10 | Day 16 | Year 94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space
26.71

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month 10 | Day 18 | Year 94

GENERATOR

TRANSPORTER

FACILITY

T/S/D/F COPY

PACCAR 04160

(DRIVER: PLEASE SIGN BELOW) 6359039

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
297629
06/18/2004

(PLEASE SIGN HERE)

LOCATION:
Loc ID County ST Pct
LACITY LA CA 100%

GROSS: 42.710
TARE: 16.000 (File)
NET: 26.710

	Oper	Time	Date
In:	KEA	10:52 AM	06/18/2004
Out:	KEA	10:52 AM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS
PACCAR INC

CUSTOMER NO.	TRUCK NO.	
0000201	9B97712	IND

PROFILE NO.
AV060504

MANIFEST NO.

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL GATE FEE:		

The Horizon Company

PACCAR 04161

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1
N / A		

GENERATOR

3. Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4. Generator's Phone (425) 468-7901

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
[illegible]	[illegible]	[illegible]

7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
ANTELOPE VALLEY LANDFILL 1200 WEST CITY RANCH ROAD PALMDALE, CA 93551		(661) 223-3427

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS WASTE SOLID (SOIL)	0 0 1	D T	0 0 0 1 8	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
a) 11) SOIL PROFILE #AV060504	

15. Special Handling Instructions and Additional Information
SITE: PACCAR INC 19706 S. NORMANDIE AVE. LOS ANGELES CA.
WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT WHEN HANDLING

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

25.64

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
	[illegible]	[illegible]	16	[illegible]

T/S/D/F COPY

PACCAR 04162

(DRIVER: PLEASE SIGN BELOW)

6359173

ANTELOPE VALLEY RECYCLING AND DISPOSAL FACILITY
HOURS: 8:00 AM - 4:45 PM (M-F)
8:00 AM - 4:00 PM (SAT)

REFERENCE NO.
297787
06/18/2004

(PLEASE SIGN HERE)

LOCATION:
LOC ID County ST Pct
LACITY LA CA 100%

GROSS: 41.040
TARE: 16.000 (File)
NET: 25.040

	Oper	Time	Date
In:	KEA	03:31 PM	06/18/2004
Out:	KEA	03:31 PM	06/18/2004

Antelope Valley Public Landfill
1200 W City Ranch Road

Palmdale, CA 93551
(661) 223-3427 FAX: (661) 223-3426

COMMENTS
PACCAR INC.

CUSTOMER NO.	TRUCK NO.	
0000201	9897712	IND

PROFILE NO.
AV060504

MANIFEST NO.

PERMIT NO.

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL	GATE FEE:	

PACCAR 04163

www.hartcrowser.com

Anchorage
2550 Denali Street, Suite 705
Anchorage, Alaska 99503-2737
Fax 907.276.7104
Tel 907.276.7475

Denver
274 Union Boulevard, Suite 200
Lakewood, Colorado 80228-1835
Fax 303.987.8907
Tel 303.986.6950

Edmonds
120 Third Avenue South, Suite 110
Edmonds, Washington 98020-3411
Fax 425.778.9417
Tel 425.775.4682

Long Beach
301 East Ocean Boulevard, Suite 1950
Long Beach, California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

Philadelphia
811 Church Rd, Suite 236
Cherry Hill, New Jersey 08002-1485
Fax 856.773.4106
Tel 856.773.4101

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Five Centerpointe Drive, Suite 240
Lake Oswego, Oregon 97035-8652
Fax 503.620.6918
Tel 503.620.7284

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1910 Fairview Avenue East
Seattle, Washington 98102-3699
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Tel 206.324.9530

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