SFUND RECORDS CTR
2149145

RESPONSE #20

County of Los Angeles
Department of Health Services
Environmental Health Division
Hazardous Waste Program
Inspector
(OFFICE ADDRESS)

OFFICIAL NOTICE OF VIOLATION № 268806

County of Los Angeles Department of Health Services

Preventive/Public Health — Environmental Management

Plotz

DATE 4/25/83

TO FICO INDUSTRIES ADDRESS 19706 S. NORMANDIE AVE TOR. 90502

SUBJECT HAZ. WASTE CONTROL. ADDRESS 19706 S. NORMANDIE AVE TOR. 90502

YOU ARE HEREBY DIRECTED TO:

(1) DISCONTINUE DISCHARGE OF HAZARDOUS WASTE (WASTE OILS, Hydraulic, & cutting oils) to GROUND SURFACES. FORTHWITH

(2) REMOVE AND/LEGALLY DISPOSE OF HAZARDOUS WASTE AND MATERIALS CONTAMINATED WITH HAZARDOUS WASTE. HAZARDOUS WASTES MUST BE DISPOSED OF TO AN AUTHORIZED DISPOSAL SITE (ie. CLASS I DISPOSAL SITE OR PERMITTED/AUTHORIZED RECYCLING FACILITY). HAZARDOUS WASTE MUST BE TRANSPORTED UNDER HAZARDOUS WASTE MANIFEST BY A STATE D.O.H.S. PERMITTED HAZ. WASTE HAULER. SHOW PROOF OF PROPER/LEGAL DISPOSAL WITH A COMPLETED HAZ WASTE MANIFEST.

(3) SUBMIT TO THIS DEPARTMENT A WRITTEN CLEAN-UP PLAN

This notice shall be complied with as required by: ☑ State Health and Safety Code, ☑ California Administrative Code, ☐ Los Angeles County Ordinance No. 7583, ☐ _____ City Ordinance No. _____, Other Code _____

CORRECTION DATE 5/9/83

RECEIVED BY Leo P. Cahill 4-25-83

MAIL SERVICE ☐ FIRST CLASS ☐ CERTIFIED

LOS ANGELES COUNTY HEALTH OFFICER

BY R. Kobayashi

TITLE

760298 H-777 (REV. 3/75) 5/81

(WHITE-VIOLATOR, YELLOW-SANITARIAN, PINK-DISTRICT DIRECTOR)

[redacted]

[redacted]

PACCAR 02135

County of Los Angeles
Department of Health Services
Occupational Health Division
Hazardous Waste Control Program
2615 S. Grand Ave. - 5th Floor
Los Angeles, CA 90007
(OFFICE ADDRESS)
(213) [illegible]

OFFICIAL NOTICE OF VIOLATION № 268807

County of Los Angeles Department of Health Services

Preventive/Public Health — **Environmental Management**

DATE 4/25/83

TO TRICO INDUSTRIES — ADDRESS 19706 S. NORMANDIE AVE TORR 90502

SUBJECT HAZ. WASTE CONTROL — ADDRESS 19706 S. NORMANDIE AVE TORR 90502

FOR THE REMOVAL & DISPOSAL OF HAZARDOUS WASTE (AT THE DRAINAGE DITCH AREA).

PLAN IS TO INCLUDE: (A) METHOD OF CLEAN-UP / DISPOSAL
(B) COMPANY NAME, ADDRESS, AND TEL # OF CLEAN-UP COMPANY & DISPOSAL SITES
(C) TIMES & DATES OF CLEAN-UP.
(D) A METHOD

24 5/9/83

This notice shall be complied with as required by: ☑ State Health and Safety Code, ☑ California Administrative Code, ☐ Los Angeles County Ordinance No. 7583, ☐ _____ City Ordinance No. _____, Other Code _____

CORRECTION DATE _____

RECEIVED BY Leo P. Cahill 4-25-83

MAIL SERVICE ☐ FIRST CLASS ☐ CERTIFIED

LOS ANGELES COUNTY HEALTH OFFICER

BY R. Kobashigawa / TITLE

760298 H-777 (REV. 3/75) 5/81

(WHITE-VIOLATOR, YELLOW-SANITARIAN, PINK-DISTRICT DIRECTOR)

[redacted]

[redacted]

PACCAR 02136

Los Angeles
Health Services

(OFFICE ADDRESS)

HEARING NOTICE No. 243659

County of Los Angeles Department of Health Services

Preventive/Public Health — Environmental Mangement

DATE June 1, 1983, 19

TO Trico Industries ATTN: Leo Cahill ADDRESS 19706 S. Normandie Ave., Torrance 90502

SUBJECT Hazardous waste control ADDRESS Railway property (NS) Knox & Del Amo (EW) Normandie & Pacific Gatewy

Upon inspection of the above property we found that you had not complied with: Official Notice #268806

RE: Hazardous waste clean-up and disposal

Therefore, you are hereby requested to appear at a hearing on this matter. It will be held at 10:00 a.m. (A.M.) (P.M.)

on Thursday, June 9, 1983, 19

Place: Los Angeles Health Services

At this hearing you may present your plans for correcting the existing violations or reasons for non-compliance. You may be represented by legal counsel. FAILURE TO APPEAR MAY BE DEEMED CAUSE FOR FURTHER LEGAL ACTION.

RECEIVED BY

MAIL SERVICE: First Class ☒ Certified ☐

LOS ANGELES COUNTY HEALTH OFFICER

BY Thomas J. Twillie (TITLE)

H-776 (REV. 3-75)
76H376A — 8/81

(*White* - VIOLATOR; *Yellow* - SANITARIAN; *Pink* - DISTRICT DIRECTOR)

[redacted]

[redacted]

PACCAR 02137

TRICO INDUSTRIES, INC.
P.O. Box 4358
19706 South Normandie Avenue
Torrance, California 90510-4358
(213) 515-1990
Telex: 683-1233
TWX: 910 346-6776
Cable: BANDWINC, Torrance

October 5, 1983

County of Los Angeles
Department of Health Services
2615 South Grand Avenue, #607
Los Angeles, CA. 90007

Attention: Mr. Roy Kobashigawa, Environmental Health Officer

Gentlemen,

We feel our responsibility for clean up extends from the initial point of spillage behind our property for 200 feet south of that point. Beyond this 200 feet, the drainage ditch gets much dirtier, the results of two (2) drain pipes draining runoff from Redman Industries' property. We feel we are not responsible for the clean up of their spillage. If indeed it is decided that our liability for clean up extends beyond the 200 feet that we have indicated as our responsibility, then we will be willing to contribute a portion of the costs for clean up with all other properties responsible for the clean up.

Our clean up will consist of the removal of surface debris for the specified 200 feet. We will also spread a layer of pea gravel over the portion of the ditch behind our property, approximately 60 feet from the initial point of the clean up. Our clean up will start on October 17, 1983, provided the weather permits it.

Further, if the railroad's property extends only 13 feet west of the center of the tracks, as they have indicated, then we request that the properties just east of the railroad tracks stop pumping water on to our property. We do not feel that our property should be subjected to flooding as the result of water being pumped off somebody else's property on to ours.

Sincerely,

Greg Bullard

Greg Bullard
Assistant Plant Manager

GB:smh
cc: D. Wagner
C. Moody
L. Cahill

FORM C: SUMMARY OF EMISSIONS

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	FOR SCAQMD USE ONLY	
ID : 008599 AD TRICO IND. INC. EQUIPMENT LOCATION : 19706 S. NORMANDIE AVE TORRANCE	REVIEWED BY:	ENTERED BY:

INSTRUCTIONS: Please see instructions provided on the "General Instruction" Sheet

DEADLINE FOR SUBMITTAL MARCH 5, 1990	TOTAL EMISSIONS						
	ORGANIC GASES	METHANE	SPECIFIC ORGANICS	NITROGEN OXIDES	SULFUR OXIDES	CARBON MONOXIDE	PART. MATTER
A. FORM B-1 FUELS							
B. FORM B-2 ORGANICS							
C. FORM B-2 SPECIFIC ORGANICS	19080						
D. FORM B-3 PROCESS							
E. FORM B-4 REFINERIES/CHEMICAL PLANTS							
F. FORM B-5 POWER PLANTS							
G. TOTAL EMISSIONS LBS/YR SUM OF LINES A - F TRANSFER TO FORM C-U LINE G	19080						
H. TOTAL EMISSIONS TONS/YR DIVIDE LINE G BY 2000 ROUND OFF TO NEAREST TON TRANSFER TO FORM C-1 LINE AA	10						

THE ABOVE EMISSIONS ARE BASED ON THE FOLLOWING HOURS OF BUSINESS

Eight	Five	Fifty-two
HOURS/DAY	DAYS/WEEK	WEEKS/YEAR

I SWEAR UNDER PENALTY OF PERJURY THAT THE DATA SUBMITTED TRULY REPRESENTS THROUGHPUT, EMISSIONS, AND/OR CONSUMPTION FOR THE CALENDAR YEAR 1989.

NAME DAVID GRAHAM SIGNATURE David Graham

TITLE SR. MFG. ENGINEERING DATE 4/6/90 PHONE No. (213) 586-8970

PREPARER, IF OTHER THAN ABOVE:

NAME J. Rodney Marsh, SCS Engineers

TITLE Project Manager PHONE No. (213)426-9544

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DUE: 4/8/90

DO NOT SEPARATE

SCAQMD 12/89 FORM C

PACCAR 02139

FORM C-1: FEE CALCULATIONS WORKSHEET

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. I. D. No.: 008599-AD

(Copy the Company Name and I. D. No. as it appears on Form C)

INSTRUCTIONS: Please complete the table below by following steps listed below:

1. Transfer the totals from Form C Line H to the appropriate columns on this form on Line AA.
2. Subtract exempted amount on Line AB from the amount on Line AA to calculate emissions subject to fee and enter amount on Line AC. Enter '0' (zero) if the result is a negative number.
3. Multiply from 1 thru 20 tons of emissions listed on Line AC by the dollar amount listed in the appropriate box and enter amount on Line AD.
4. Multiply emissions greater than 20 tons listed on Line AC by the dollar amount listed in the appropriate box and enter amount on Line AE. Multiply the total Carbon Monoxide emissions (tons) by the flat rate of $3.02/ton and enter total on the total line.
5. Add amounts on Line AD and Line AE and enter amounts on the Fee Due Per Pollutant Line. Add amounts in T1 thru T6 and enter on Line AF.

		ORGANIC GASES	METHANE	SPECIFIC ORGANICS	NITROGEN OXIDES	SULFUR OXIDES	CARBON MONOXIDE	PART. MATTER
	EMISSIONS	TOTAL TONS		TOTAL TONS	TOTAL TONS	TOTAL TONS	TOTAL TONS	TOTAL TONS
LINE AA	FROM FORM C LINE H	10	EXEMPT					
LINE AB	EXEMPT EMISSIONS	- 5 TONS	EXEMPT	- 5 TONS	- 5 TONS	- 5 TONS	- 100 TONS	- 5 TONS
LINE AC	EMISSIONS SUBJECT TO FEE	5	EXEMPT					
LINE AD	FEE FOR TONS 1-20 OF LINE AC	1-20 TONS $1730 x $346.00/ton $ 1730	EXEMPT	1-20 TONS x $62.00/ton $	1-20 TONS x $200.00/tons $	1-20 TONS x $240.00/ton $	TOTAL TONS x $3.02/ton	1-20 TONS x $265.00/ton $
LINE AE	FEE FOR TONS 21 & OVER OF LINE AC	# of tons over 20 x $392.00/ton $	EXEMPT	# of tons over 20 x $69.00/ton $	# of tons over 20 x $225.00/tons $	# of tons over 20 x $271.00/ton $	$	# of tons over 20 x $300.00/ton $
FEE DUE PER POLLUTANT LINE AD + AE		$ 1730 (T1)		$ (T2)	$ (T3)	$ (T4)	$ (T5)	$ (T6)

LINE AF	AMOUNT OF ANNUAL EMISSION FEES DUE UNDER THE LEWIS AIR QUALITY ACT OF 1976. ADD AMOUNTS IN COLUMNS T1-T6 TRANSFER AMOUNT TO FORM S LINE A	$ 1730

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM B-2: EMISSIONS FROM THE USE OF ORGANICS

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. **I. D. No.:** 008599-AD

(Copy the Company Name and I. D. No. as it appears on From C)

	TYPE OF EMISSIONS	ANNUAL USAGE	EMISSION FACTORS lbs/gal	ANNUAL EMISSIONS
	CONTACT CEMENT		5.5	
	EPOXY PAINT/PRIMER		5.5	
M	FUEL OIL		3.7	
A	GLAZE		5.5	
T	LINING, CANS		5.0	
E	LINING, DRUM		4.5	
R	PAINT REMOVER		5.2	
I	POLYURETHANE		5.2	
A	QUENCH OIL		7.5	
L	SHELLAC		5.5	
S	TONER		6.0	
	TREATING OIL		7.5	
	URETHANE		7.5	
	WASH COAT		5.5	
	WAX		6.2	
SUBTOTAL EMISSIONS PAGE 3 TRANSFER SUBTOTAL TO LINE C BELOW				

LINE A: SUBTOTAL EMISSIONS FROM PAGE 1	4680
LINE B: SUBTOTAL EMISSIONS FROM PAGE 2	14400
LINE C: SUBTOTAL EMISSIONS FROM PAGE 3	
GRAND TOTAL ORGANIC EMISSIONS TRANSFER AMOUNT TO FORM C LINE B	19080

SPECIFIC ORGANICS	ANNUAL USAGE	EMISSION FACTORS lbs/lb	ANNUAL EMISSIONS
TRIFLUOROMETHANE		1	
DICHLOROTRIFLUOROETHANE (HCFC-123)		1	
TETRAFLUORORETHANE (HFC-134a)		1	
DICHLOROFLUOROETHANE (HCFC-141b)		1	
CHLORODIFLUOROETHANE (HCFC-142b)		1	
TOTAL SPECIFIC ORGANICS TRANSFER AMOUNT TO FORM C LINE C			

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM B-2: EMISSIONS FROM THE USE OF ORGANICS

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. I. D. No.: 008599-AD

(Copy the Company Name and I. D. No. as it appears on From C)

	TYPE OF EMISSIONS	ANNUAL USAGE	EMISSION FACTORS lbs/gal	ANNUAL EMISSIONS
	ACETONE		6.6	
	BENZENE		7.3	
S	BUTYL CELLOSOLVE		7.5	
O	CELLOSOLVE ACETATE		8.1	
L	CHEVRON 1100		6.7	
V	CHEVRON 1200		6.5	
E	DIAMINE		8.4	
N	DIMETHYLFORMAMIDE		7.9	
T	DOWANOL		7.7	
S	EPOXY THINNER		7.0	
	ETHYL ALCOHOL (COMMERCIAL)		6.3	
	FURFURYL ALCOHOL		9.4	
	HEXYLENE GLYCOL		7.7	
	HEXANE		5.5	
S	ISOPROPYL ALCOHOL		6.6	
O	KEROSENE		7.0	
L	METHANOL		6.6	
V	MEK		6.7	
E	MINERAL SPIRITS		6.5	
N	NAPHTHA		6.3	
T	SHELL 360		6.4	
S	TOLUENE	2000	7.2	14400
	TURCO CLEANING SOLVENT		7.3	
	VM & P NAPHTHA		6.3	
S	VAR SOL # 1		6.5	
O	XYLENE		7.2	
L				
V				
E				
N				
T				
S				
SUBTOTAL EMISSIONS PAGE 2 TRANSFER SUBTOTAL EMISSIONS TO FORM B-2 PAGE 3 LINE B				14400

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM B-2: EMISSIONS FROM THE USE OF ORGANICS

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. I. D. No.: 008599-AD

(Copy the Company Name and I. D. No. as it appears on Form C)

INSTRUCTIONS: Please complete the table below by following steps listed below:

1. Enter the annual usage for each type of organics (gallons/yr) and fiberglass products (lbs/yr).
2. Calculate emissions for each organic by multiplying the annual usage by the emission factors. If the VOC contents differ from those provided, use those provided by the suppliers on the Material Safety Data Sheet (MSDS). Documentation substantiating the emission factors MUST be attached.
3. Total the emissions for each pollutant and transfer the amount to Form C, Line B.

(A sample form completed for a typical company is illustrated on the back of this form)

	TYPE OF EMISSIONS	ANNUAL USAGE	EMISSION FACTORS lbs/gal	ANNUAL EMISSIONS
	ADHESIVES		5.5	
C	ENAMEL	1040	4.5	4680
O	LACQUER		5.5	
A	PRIMERS		5.0	
T	SEALERS		5.7	
I	SOLVENTS		7.0	
N	STAINS (OPAQUE)		4.8	
G	SPIRIT		6.0	
S	STAINS (SEMI-TRANSPARENT)		6.7	
	VARNISH		4.5	
	WATER BASED		3.0	
PRIN	LITHO INKS/LTR PRESS INKS		3.0	
TING	FLEXO INKS		5.5	
	WATER SOLUBLE INKS		0.1	
	GRAVURE INKS		5.5	
DEGR	1,1,1, TRICHLOROETHANE		11.1	
EASE	PERCHLOROETHYLENE		13.5	
RS	PETROLEUM (STODDARD, 140° F)		6.5	
			lbs/lb of material	
FIBE	EPOXY (2 COMPOUND)		0.05	
RGLA	FIBERGLASS RESIN		0.05	
SS	GEL KOTE		0.1	
	PLASTICIZER		0.05	
	RESINS		0.05	
SUBTOTAL EMISSIONS PAGE 1 TRANSFER SUBTOTAL EMISSIONS TO FORM B-2 PAGE 3 LINE A				4680

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM TAC: TOXIC AIR CONTAMINANTS

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. I.D.No.: 008599-AD

(Copy the Company Name and I. D No. as it appears on Form C)

INSTRUCTIONS: Please complete the table below by following steps listed below:

1. On June 2, 1989, the South Coast Air Quality Management District Board adopted Rule 301.2(a)(b) which requires organizations to report the amount of Toxic Air Contaminants emitted to the atmosphere from their location. This form (Form TAC) is to be used for reporting the Toxic Air Contaminants used by your organization.

2. Indicate which of the following Toxic Air Contaminants were used by your organization during calendar year 1989 and provide the amount emitted to the atmosphere in pounds per year.
   NOTE: If this completed form is not received by the SCAQMD by March 5, 1990, the Executive Officer may take action to suspend all Permits to Operate for equipment on your premises. Submit this form with the other Emission Fee Forms.

3. **NO FEE IS DUE AT THIS TIME FOR THE RELEASE OF TOXIC AIR CONTAMINANTS**
   You will be billed for the release of Toxic Air Contaminants at a later date to be determined by the South Coast Air Quality Management District Rules & Regulations.

TOXIC AIR CONTAMINANTS	LBS/YR
ASBESTOS	0
BENZENE	0
CADMIUM	0
CARBON TETRACHLORIDE	0
HEXAVALENT CHROMIUM	0
CHLORINATED DIOXINS AND DIBENZOFURANS (15 SPECIES)	0
ETHYLENE DIBROMIDE	0
ETHYLENE DICHLORIDE	0
ETHYLENE OXIDE	0
METHYLENE CHLORIDE	0

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM C-U: SUMMARY OF EMISSIONS

PERMITTED & NON-PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	FOR SCAQMD USE ONLY	
COMPANY NAME: TRICO IND. INC.	REVIEWED BY:	ENTERED BY:
I.D. No. 008599-AD		
(Copy the Company Name and I. D. No. as it appears on Form C)		

INSTRUCTIONS: Please see instructions provided on the "General Instruction" Sheet

DEADLINE FOR SUBMITTAL MARCH 5, 1990	TOTAL EMISSIONS						
	ORGANIC GASES	METHANE	SPECIFIC ORGANICS	NITROGEN OXIDES	SULFUR OXIDES	CARBON MONOXIDE	PART. MATTER
A. FORM B-1-U FUELS	0.6	0.42		25.6	6.92	4.92	0.94
B. FORM B-2-U ORGANICS							
C. FORM B-2-U SPECIFIC ORGANICS							
D. FORM B-3-U PROCESS							
E. FORM B-4-U REFINERIES/CHEMICAL PLANTS							
F. FORM B-5-U POWER PLANTS							
G. EMISSIONS - PERMITTED EQUIPMENT FROM FORM C LINE G							
H. TOTAL EMISSIONS LBS/YR SUM OF LINES A THRU G	0.6	0.42		25.6	6.92	4.92	0.94
I. TOTAL EMISSIONS TONS/YR DIVIDE LINE H BY 2000 ROUND TO THE NEAREST TON TRANSFER AMOUNT TO FORM H LINE A	0	0		0	0	0	0

THE ABOVE EMISSIONS ARE BASED ON THE FOLLOWING HOURS OF BUSINESS

Eight	Five	Fifty-two
HOURS/DAY	DAYS/WEEK	WEEKS/YEAR

I SWEAR UNDER PENALTY OF PERJURY THAT THE DATA SUBMITTED TRULY REPRESENTS THROUGHPUT, EMISSIONS, AND/OR CONSUMPTION FOR THE CALENDAR YEAR 1989.

NAME DAVID GRAHAM SIGNATURE David Graham

TITLE SR. MFG. ENGINEERING DATE 4/6/90 PHONE No. (213) 586-8970

PREPARER, IF OTHER THAN ABOVE:

NAME J. Rodney Marsh, SCS Engineers

TITLE Project Manager PHONE No. (213) 426-9544

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM B-1-U: EMISSIONS FROM BURNING OF FUELS

NON-PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

COMPANY NAME: TRICO IND. INC. I. D. No.: 008599-AD

(Copy the Company Name and I. D. No. as it appears on Form C)

INSTRUCTIONS: Please complete the table below by following steps listed below:

1. Enter the annual usage for each type of fuel used in calendar year 1989 in millions of cubic feet or thousands of gallons.
2. Calculate emissions for each pollutant by multiplying the annual usage by the emission factors. Alternate emission factors may be used if established by documented and certified source tests using analytical procedures approved by SCAQMD. Documentation substantiating the emission factors MUST be attached to this form.
   ** Emission factors are provided in lbs. per million cu. ft. or in lbs. per thousand gallons.**
3. Total the emissions for each pollutant and transfer the amount to Form C-U, Line A.

(A sample form completed for a typical company is illustrated on the back of this form)

	FUELS	ANNUAL USAGE	ORGANIC GASES	METHANE	NITROGEN OXIDES	SULFUR OXIDES	CARBON MONOXIDE	PART. MATTER
BOILERS OVEN FURNACE	NATURAL GAS	0.03 Millions cu. ft.	7 0.21		213 6.4	0.83 0.02	4.1 0.12	17.5 0.52
	LPG PROPANE BUTANE	1.5 1000 Gallons	0.26 0.39	0.28 0.42	12.8 19.2	4.6 6.9	3.2 4.8	0.28 0.42
	LO NOX <50X10(6) BTU	Millions cu. ft.	7		130	0.83	35	7.5
	DIESEL OIL	1000 Gallons	2.7		75	14	0.6	3.6
INTERNAL COMBUSTION ENGINES	NATURAL GAS	Millions cu. ft.	280	1120	3400	0.6	430	
	LPG PROPANE BUTANE	1000 Gallons	83		139	0.35	129	5
	GASOLINE	1000 Gallons	206		102	5.3	3940	6.5
	DIESEL OIL	1000 Gallons	37.5		469	31.2	102	33.5
TURBINES	NATURAL GAS	Millions cu. ft	42		413	0.6	115	14
	DIESEL OIL	1000 Gallons	5.57		67.8	31.2	15.4	5
TOTAL EMISSIONS LBS/YR TRANSFER TOTALS TO FORM C-U LINE A			0.6	0.42	25.6	6.92	4.92	.94

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM H: AIR TOXICS "HOT SPOTS" EMISSIONS

CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 90700 - 90706

COMPANY NAME: TRICO IND. INC. I.D.No.: 008599-AD

(Copy the Company Name and I. D. No. as it appears on Form C)

INSTRUCTIONS: Please complete the table below by following steps listed below:

1. Transfer amounts from Form C-U Line I and enter them in A1, A2, A3, B2, B3, and B4.
   NOTE: Carbon Monoxide emissions listed on Form C-U Line I are to be ignored for purposes of this form.
2. Add amounts in A1, A2 and A3 and enter amount in B1.
3. Subtract Line C from Line B and enter remainder amounts in Line D.
4. If Line D is greater than 0 (zero) enter it in Line E; if less than or equal to 0 (zero) enter 0 (zero) in Line E.
5. Multiply the amounts in Line E by 10.67 and enter amounts in Line F.
6. Add amounts in F1 thru F4 and enter total in Line G.
7. Transfer total amount of annual emissions due Section 90700-90706 of Title 17 of California Code of Regulations concerning Air Toxics "Hot Spots" from Line G to Form S Line B.

DEADLINE FOR SUBMITTAL MARCH 5, 1990	ORGANIC GASES	METHANE	SPECIFIC ORGANICS	NITROGEN OXIDES	SULFUR OXIDES	PART. MATTER
A. TRANSFER AMOUNTS FROM FORM C-U LINE I TO A1, A2, A3, B2, B3, B4	0 A1	0 A2	A3	0	0	0
B. TOTAL COLUMNS A1 + A2 + A3	0 B1			B2	B3	B4
C. EXEMPT EMISSIONS	- 10 TONS			- 10 TONS	- 10 TONS	- 10 TONS
D. SUBTRACT AMOUNT IN LINE C FROM LINE B						
E. EMISSIONS SUBJECT TO FEE IF LINE D ≤ 0 ENTER 0 IF LINE D > 0 ENTER THE AMOUNT FROM LINE D	0 E1			0 E2	0 E3	0 E4
F. FEE DUE MULTIPLY LINE E x 10.67	F1			F2	F3	F4
G. AMOUNT OF ANNUAL EMISSION FEE DUE SECTIONS 90700-90706 OF TITLE 17 OF THE CALIFORNIA CODE OF REGULATIONS CONCERNING AIR TOXICS "HOT SPOTS". ADD AMOUNTS IN COLUMNS F1 - F4 TRANSFER AMOUNT TO FORM S LINE B					$	

I SWEAR UNDER PENALTY OF PERJURY THAT THE DATA SUBMITTED TRULY REPRESENTS THROUGHPUT, EMISSIONS, AND/OR CONSUMPTION FOR THE CALENDAR YEAR 1989.

NAME DAVID GRAHAM SIGNATURE David Graham

TITLE SR. MFG. ENGINEERING DATE 4/6/90 PHONE No. (213) 586-8970

PREPARER, IF OTHER THAN ABOVE

NAME J. Rodney Marsh, SCS Engineers

TITLE Project Manager PHONE No. (213) 426-9544

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

FORM S: SUMMARY OF FEES DUE

PERMITTED EQUIPMENT - CALENDAR YEAR 1989

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

	FOR SCAQMD USE ONLY	
COMPANY NAME: TRICO IND. INC.	REVIEWED BY:	ENTERED BY:
I.D. No. 008599-AD		
(Copy the Company Name and I. D. No. as it appears on Form C)		

A. EMISSION FEES DUE UNDER THE LEWIS AIR QUALITY ACT OF 1976. ENTER AMOUNT FROM FORM C-1 LINE AF	$ 1730.00
B. EMISSION FEES DUE UNDER THE AIR TOXICS "HOT SPOTS" PROGRAM. ENTER AMOUNT FROM FORM H LINE G	$
GRAND TOTAL DUE SUM OF LINE A AND B	$ 1730.00

AFFIX CHECK HERE

PLEASE MAKE CHECKS PAYABLE TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT IN THE AMOUNT OF THE GRAND TOTAL FROM ABOVE

MAIL THE CHECK AND ALL COMPLETED FORMS (DO NOT SEPARATE FORMS) TO:

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
FILE NO. 21621
LOS ANGELES, CA 90074-1621

FORMS BEARING A POSTMARK LATER THAN MARCH 5, 1990 MAY BE SUBJECT TO PENALTIES PRESCRIBED BY THE DISTRICT RULES AND REGULATIONS.

I SWEAR UNDER PENALTY OF PERJURY THAT THE DATA SUBMITTED TRULY REPRESENTS THROUGHPUT, EMISSIONS, AND/OR CONSUMPTION FOR THE CALENDAER YEAR 1989.

NAME DAVID GRAHAM SIGNATURE David Graham

TITLE SR. MFG. ENGINEERING DATE 4/6/90 PHONE No. (213) 586-8970

PREPARER, IF OTHER THAN ABOVE:

NAME J. Rodney Marsh, SCS Engineers

TITLE Project Manager PHONE No. (213) 426-9544

SCAQMD MAY AUDIT YOUR COMPANY'S EMISSIONS. PLEASE RETAIN ALL RECORDS AND CALCULATIONS USED IN COMPLETING THESE FORMS FOR A MINIMUM OF TWO YEARS

DO NOT SEPARATE

James

PACCAR FACSIMILE HEADER
CAT. NO. 3996 (R6-86) LONG

DATE: 6/14/89

4 NUMBER OF PAGES (INCLUDING HEADER PAGE)

☐ NORMAL ☐ PRIORITY ☐ CONFIDENTIAL

TO: Leo Cahill LOC.: Trico Torrance FAX NO:

FROM: Bob Butler DEPT. NO: Envir. LOC./TEL. NO.: 206 455-7435

COPIES TO: Newton Wells Trico - Huntington Park
Dave Graham " "

SUBJECT: SARA Title III, Section 313, Form R

MESSAGE: SIC Code 1382 only applies to companies which engage in performing geophysical, geological or other exploration services for oil and gas, not to the manufacturing of oil field equipment. Your plant falls under SIC 3561 "Pumps and Pumping Equipment" as you manfacture components for oil field pumping equipment. Please review your usage of Section 313 chemicals to answer questions 3, 4 & 5

[redacted]

PACCAR 02149

SARA Title III, Section 313

Form R
Production Year 1988

1. Facility Trico-Torrance Manufacturing Location #43

2. What is your SIC code(s)? 1382-Oil & Gas Exploration Services

   Is it between 20 - 39?

   [] Yes, Go to Question 3

   [X] No, Sign below and return

3. Did you otherwise use more than 10,000# of any listed chemical?

   [] Yes, Go to Question 4

   [] No, Go to Question 4

4. Did you manufacture or process more than 50,000# of any listed chemical?

   [] Yes, Go to Question 5

   [] No, Go to Question 5

5. If you checked yes to either Question 4 or 5, attach a copy of your completed Form R for production year 1988, sign below and return. If you checked no to both Questions 4 and 5, sign below and return.

Leo P. Cahill
Signed

6-14-89
Date

Return to: R. K. Butler
Corporate Environmental Manager
Bellevue, WA

by July 15, 1989.

TRICO INDUSTRIES, INC.
P.O. Box 4358
19706 South Normandie Avenue
Torrance, California 90510-4358
(213) 719-1091
FAX: (213) 324-6265

FACSIMILE INFORMATION SHEET

THE FOLLOWING PAGES ARE FOR:

NAME: Mr. Bob Butler DATE: 6-14-89

COMPANY: Paccar FAX NO.: 206-453-4900

LOCATION: Bellevue, Wa

FROM: L. Cahill
TRICO INDUSTRIES - TORRANCE MANUFACTURING
LOCATION #43

TOTAL NUMBER OF PAGES SENT INCLUDING INFORMATION SHEET: 2

PLEASE CALL IF YOU HAVE ANY QUESTIONS, OR IF YOU DO NOT RECEIVE ALL PAGES. THANK YOU.

COMMENTS:

Industry Group No. | Industry No.

355 **SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY—Con.**

3559 Special Industry Machinery, Not Elsewhere Classified—Con.

Metal smelting and refining machinery, except furnaces and ovens
Nuclear reactor control rod drive mechanisms
Optical lens machinery
Ozone machines
Packup assemblies (wheel overhaul)
Paint making machinery
Petroleum refinery equipment
Pharmaceutical machinery
Plastics working machinery
Pottery making machinery
Robots, plastics: for molding and forming
Rubber products machinery
Rubber working machinery
Scouring machines, tannery
Semiconductor manufacturing machinery
Sewing machines and attachments, industrial
Shoe making and repairing machinery
Silver recovery equipment, electrolytic
Stone tumblers
Stone working machinery
Synthetic filament extruding machines
Tannery machines
Tile making machines
Tire grooving machines
Tire retreading machinery and equipment
Tire shredding machinery
Tobacco products machinery
Wheel mounting and balancing equipment, automotive
Wood drying kilns
Zipper making machinery

356 **GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT**

3561 Pumps and Pumping Equipment

Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial, commercial, or household use, except fluid power pumps and motors. Included are establishments primarily engaged in manufacturing domestic water and sump pumps. Establishments primarily engaged in manufacturing fluid power pumps and motors are classified in Industry 3594; those manufacturing measuring and dispensing pumps for gasoline service station use are classified in Industry 3586; those manufacturing vacuum pumps, except laboratory, are classified in Industry 3563; those manufacturing laboratory vacuum pumps are classified in Industry 3821; and those manufacturing pumps for motor vehicles are classified in Industry 3714.

Cylinders, pump
Domestic water pumps
Hydrojet marine engine units
Pump jacks
Pumps, domestic: water or sump
Pumps, general industrial type
Pumps, oil well and oil field

3562 Ball and Roller Bearings

Establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, takeup cartridge and hangar units) and parts. Establishments primarily engaged in manufacturing plain bearings are classified in Industry 3568.

Bearings, ball and roller
Flange units for ball or roller bearings
Pillow block units for ball or roller bearings
Pillow blocks, with ball or roller bearings
Races, ball and roller bearing

3563 Air and Gas Compressors

Establishments primarily engaged in manufacturing air and gas compressors for general industrial use, and in manufacturing nonagricultural spraying and dusting equipment. Establishments primarily engaged in manufacturing refrigeration and air-conditioning compressors and compressing units are classified in Industry 3585; those manufacturing pneumatic pumps and motors for fluid power transmission are classified in Industry 3594; those manufactur-

PACCAR 02152

Industry Group No. | Industry No.

132 **NATURAL GAS LIQUIDS—Con.**

1321 **Natural Gas Liquids—Con.**

Fractionating natural gas liquids
Isobutane (natural) production
Liquefied petroleum gases (natural) production
Natural gas liquids production
Natural gasoline production
Propane (natural) production

138 **OIL AND GAS FIELD SERVICES**

1381 **Drilling Oil and Gas Wells**

Establishments primarily engaged in drilling wells for oil or gas field operations for others on a contract or fee basis. This industry includes contractors that specialize in spudding in, drilling in, redrilling, and directional drilling.

Directional drilling of oil and gas wells on a contract basis
Redrilling oil and gas wells on a contract basis
Reworking oil and gas wells on a contract basis
Spudding in oil and gas wells on a contract basis
Well drilling: gas, oil, and water intake—on a contract basis

1382 **Oil and Gas Field Exploration Services**

Establishments primarily engaged in performing geophysical, geological, and other exploration services for oil and gas on a contract or fee basis.

Aerial geophysical exploration, oil and gas field: on a contract basis
Exploration, oil and gas field: on a contract basis
Geological exploration, oil and gas field. on a contract basis
Geophysical exploration, oil and gas field: on a contract basis
Seismograph surveys, oil and gas field. on a contract basis

1389 **Oil and Gas Field Services, Not Elsewhere Classified**

Establishments primarily engaged in performing oil and gas field services, not elsewhere classified, for others on a contract or fee basis. Services included are excavating slush pits and cellars; grading, and building of foundations at well locations; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells; shooting wells; perforating well casings; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells. Establishments which have complete responsibility for operating oil and gas wells for others on a contract or fee basis are classified according to the product extracted rather than as oil and gas field services. Establishments primarily engaged in hauling oil and gas field supplies and equipment are classified in Division E, Transportation and Public Utilities. Establishments primarily engaged in oil and gas field machine shop work are classified in Manufacturing, Industry 3599.

Acidizing wells on a contract basis
Bailing wells on a contract basis
Building oil and gas well foundations on a contract basis
Cementing oil and gas well casings on a contract basis
Chemically treating wells on a contract basis
Cleaning lease tanks, oil and gas field: on a contract basis
Cleaning wells on a contract basis
Derrick building, repairing, and dismantling oil and gas—on a contract basis
Dismantling of oil well rigs (oil field service) on a contract basis
Erecting lease tanks, oil and gas field. on a contract basis
Excavating slush pits and cellars on a contract basis
Fishing for tools, oil and gas field: on a contract basis
Gas compressing, natural gas at the field on a contract basis
Gas well rig building, repairing, and dismantling on a contract basis
Grading oil and gas well foundations on a contract basis
Hard banding service: on a contract basis
Hot oil treating of oil field tanks: on a contract basis

cc D.G. Opacki

CHEMICAL CONSULTANTS

1160 CENTRE DRIVE
INDUSTRY, CALIFORNIA 91789
(714) 595-7473 — (818) 965-7122

July 13, 1988

Mr. Leo P. Cahill
Plant Manager
Trico Industries
1206 W. 196th Street
Torrance, CA 90502

RE: TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM (EPA FORM R)

In response to your request, the 1987 usage lists and Material Safety Data Sheets have been reviewed in order to determine the reporting requirements for the EPA Form R.

The Torrance, CA facility did not manufacture, process or otherwise use any of the compounds identified in the Section 313 Toxic Chemical List in amounts which would qualify for reporting in the EPA Form R.

If you have any questions or need further assistance, please contact me.

Respectfully,

Jeff Jolicoeur
President

cc: Ray Whalon, Huntington Park

RECEIVED MAR 11 1988

Southern California Edison Company
P O BOX 4699
1924 CASHDAN STREET
COMPTON, CALIFORNIA 90224

March 8, 1988

TRICO INDUSTRIES
19706 South Normandie
Torrance, CA 90502

ATTENTION: Leo Cahill

REFERENCE: SCE Work Order Number 6032-8800 8-8803 For Transformer Oil PCB Test

Dear Mr. Cahill:

Enclosed you will find a copy of our PCB test for the transformers at your facility. The test results, per the laboratory report, shows a non detectable amount of PCB's, or less than 2 parts per million (2ppm).

If you have any questions, please contact me at 213/608-5000.

Sincerely,

C. P. Martin

C. P. MARTIN
Customer Service Planner
Compton District

CPM:ian

Enclosure

March 4, 1988

Mr. M. L. Merlo
District Manager
Compton District
Attention: Walt Jeffrey

Determination of PCB in
Transformer Oil

Reference Laboratory Request Number(s): 88-0549-(1-3)

Attached please find the results for the sample(s) received on March 1, 1988.

If you have any questions about the report or the manner in which the sample(s) were analyzed, please contact Reuben A. Lacuata at either PAX 37-253 or 37-215.

R. M. Warner
Supervisor, Industrial Hygiene
Occupational Safety & Health Division

Attachment

Report of Analysis

LABORATORY REQUEST NUMBER	TEST RESULT DATE	DESCRIPTION	PCB CONTENT ug/g (ppm)
88-0549-1	03/03/88	Transformer oil S/N 62SH1909 W/H 333kVA/16	N.D. <2
88-0549-2	03/03/88	Transformer oil S/N C21933-1-1 Penn 333kVA/16	N.D. <2
88-0549-3	03/03/88	Transformer oil S/N C21933-1-3 Penn 333kVA/16	N.D. <2

*PCB RESULTS ONLY.

Glenda — Copy to Bob Butler 11/5/87

cc: D. Wagner
D. Opacki - PACCAR. Trico 5.3 (air)

NOV 3 '87

JEFF BERKE
CRAIG J. de RECAT
WALTER L. HAINES
ROBERT I. McMURRY
LARRY C. RUSS

LAW OFFICES OF
HAINES, RUSS, McMURRY & de RECAT
12424 WILSHIRE BOULEVARD - SUITE 1200
LOS ANGELES, CALIFORNIA 90025

TELEPHONE (213) 826-7474
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NORTHERN CALIFORNIA OFFICE
177 FRONT STREET
DANVILLE, CALIFORNIA 94526
(415) 837-8257

GRM
BNF
TCS
KEC
DEP
JMC
CJJ
WJR
TechAdv
EAC
PEG
F/Up

October 26, 1987

Peter Greenwald, Esq.
Office of District Counsel
South Coast Air Quality Management District
9150 Flair Drive
El Monte, California 91731

VIA FEDERAL EXPRESS

TORRANCE

Re: Trico Industries
Notice of Violation No. Z29325

Dear Mr. Greenwald:

As promised, attached is a draft of our proposed presentation to the District Hearing Board for October 29, 1987 on this matter. We hope this advance copy will help you determine what position District Counsel will take on Trico's request for a continuation of its variance.

Trico estimates it will need a minimum of four months to explore all the alternatives outlined in this presentation. At the October 29 Hearing we expect to detail our prior efforts, explain the proposed additional investigation, and request a variance for this additional time period.

I would welcome the opportunity to discuss this matter with you prior to the October 29 Hearing. If you have any questions or comments, please feel free to call me at 826-7474.

We look forward to seeing you on the 29th.

Very truly yours,

HAINES, RUSS, McMURRY & de RECAT

RDMcMurry

Robert I. McMurry

RIM/td
Encl.
greenwald.ltr

cc: Abid Latif, SCAQMD (via Federal Express)
Mr. Leo Cahill, Trico Ind. (via Federal Express)
Mr. Newton Wells, Trico Ind. (via regular mail)

PACCAR 02158

JEFF BERKE
CRAIG J. de RECAT
WALTER L. HAINES
ROBERT I. McMURRY
LARRY C. RUSS

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(415) 837-8257

October 26, 1987

Ms. Coralie Kupfer, Chairman
South Coast Air Quality Management
District Hearing Board

Re: Trico Industries
Case No. 3304-1

Dear Ms. Kupfer:

This letter is intended to inform the Hearing Board, District Legal Counsel and District Staff of Trico Industries' efforts to respond to Notice of Violation No. Z29325 and of the basis for our request to extend our variance for four months past the current November 1 expiration date.

Trico Operations. Trico Industries, Inc. is a leading manufacturer of oil well completion equipment. Its products include centralizers, stop collars, cement baskets, stabilizers, turbolators, friction lock clamps, and multi-flex fractures.

These products are used in extremely adverse conditions. They are subjected to rotary abrasive action against materials such as rock, gravel, mud, water and sand and are exposed to various underground corrosives. Given the nature of oil drilling operations and personnel, such products are often subjected to rough handling and substantial impact pressures, and may be stored in outdoor locations for periods of up to a year with constant exposure to rain, dust, sun, heat and other adverse environmental conditions. Finally, Trico's products are shipped throughout the world (Aberdeen, Scotland, Singapore, Ecuador, Venezuela, Alaska, India, Australia, China, Middle East) and must withstand the rigors of maritime journeys with exposure to seawater, salt air and other corrosive factors.

Accordingly, quality is a highest priority for Trico. The environment in which the products must perform can turn the slightest defect into a major failure, resulting in many thousands of dollars of damage to a valuable drilling rig. The market expects and demands a high-quality product capable of withstanding such challenges, and Trico has a number of competitors who produce such products. (None are located in California.)

Notice Of Violation. On May 15, 1987, Trico received a Notice of Violation No. Z29325 citing it for violation of Rule 1107(b)(5)(a) in the operation of its dip tank, Operating Permit No. M21678. This is a 625 gallon tank used to coat all products manufactured at the Trico facility with a high-quality, solvent-based enamel coating.

A sample taken from the tank by a District Inspector showed a VOC content of 610 g/L. The allowable limit for VOC omissions under such conditions, assuming the Extreme-Performance category, is 420 g/L. Rule 1107(b)(2).

This was the first Notice of Violation Trico had ever received from the South Coast Air Quality Management District at this facility.

Trico's Response. Trico acted promptly to respond to the Notice of Violation. On May 22, 1987, Trico submitted a petition for a variance to the Hearing Board. The petition stated that the paint used by Trico had a base VOC content of 525 g/L as received by Trico. The paint must be thinned by approximately 20% to achieve proper coverage and appearance on the product resulting in the 610 g/L VOC emission.

For competitive reasons Trico had for several years been looking for an alternative formation, either with a lower solvent content or with a water base, either of which might prove economical. Unfortunately, all other products tested had proved inadequate in coverage and appearance. The use of any other coating rendered the well-completion equipment unreliable under the difficult drilling and chipping conditions and would have made Trico's product line non-competitive in this highly exacting industry.

On June 9, 1987 the Board granted Trico an interim variance because the violation was due to conditions beyond Trico's reasonable control, requiring immediate compliance would result in the practical closure of a lawful business without a corresponding benefit in reducing air contaminants, and Trico was taking steps to cure the violation.

In subsequent conversations with District Staff, Trico learned that its dip tank operation might qualify under Rule 1107 based on an equivalency rating. A representative of Trico's paint

supplier, Floyd Haanstra, contacted John Thrash and A. J. Wilson of District Staff and was given a formula for calculating such an equivalency rating. Specifically, he was told to take the permissible VOC limit (420), multiply by an estimated 95% transfer efficiency for the tank operation, divide by a 65% established minimum transfer efficiency, and compute the equivalency rating.

Based on Mr. Haanstra's information, received from the District Staff, Trico calculated its equivalency rating as follows:

$$\frac{420 \times 95\%}{65\%} = 613.8$$

Trico thus assumed its VOC emissions of 610 complied with Rule 1107, as modified by the equivalency formula.

Trico attempted to contact District Staff to confirm its calculation concerning the equivalency rating. A. J. Wilson, to whom Trico had been directed, was on vacation for most of the month and Trico was told to wait until he returned. After he returned, Trico called several times and eventually learned that Surech Chaurushiya had been placed in charge of the file.

After several additional calls Trico finally reached Mr. Chaurushiya who stated he had not started working on the case and would get back to Trico when he had had a chance to look at it. Trico received no response and as the next hearing date of September 3, 1987 approached, it became increasingly concerned.

Trico then contacted District Legal Counsel, Ms. Betty Farnum, who was able to get through to Mr. Chaurushiya. He explained that recent rule changes concerning operating and construction permits had inundated his department with paperwork and submittals, that the Department had just been split into divisions resulting in considerable confusion, and that he still had not looked at Trico's equivalency request. He further indicated the file had been or was to be transferred to another Staff person, Abid Latif.

By now it was September 1, two days before the next scheduled Board hearing on Trico's matter. Mr. Latif was then contacted. He had just received the file. He explained that unless he was told of a priority or of an impending hearing date, such files are

placed behind more important documents such as permits to construct and may not be considered by the Staff for several months. Even once notified of the urgency of the matter, Mr. Latif stated it would not be possible for him to examine the file for several weeks. He did tell District Counsel that based on the figures given by Trico it "sounded like" Trico might qualify for an equivalency rating sufficient to comply with the rule, but that he wished to work out the formula himself.

At the next Board Hearing on September 3, Trico could thus only present its own equivalency calculations and explain its inability to verify its figures with District Staff despite repeated good faith efforts. District Counsel concurred that Trico had been unable to obtain a Staff determination for reasons beyond its control and supported Trico's request for a four month extension of its variance to clarify the equivalency issue. To further complicate the matter, a District Staff Engineer present on another matter commented that Trico's formula for its equivalency calculations did not appear correct and he questioned whether Trico would qualify under an equivalency determination.

After consideration the Board granted Trico a variance until November 1st. Trico was directed to meet and confer with Mr. Latif by September 21st to obtain a determination on the equivalency issue. It was further ordered to calculate and submit an excess emissions calculation, to notify the Board if it was determined that it was in compliance with Rule 1107 and, if not, to appear for a further hearing on October 29, 1987.

Trico promptly completed and submitted an excess emission form accompanied with a check for appropriate fees.

Trico also attempted to reach Mr. Latif to arrange a meeting per the Board's Order. Mr. Latif promised to call on September 18 with his calculations and to arrange a meeting should it turn out they differed from Trico's.

Trico called Mr. Latif again on the 21st and at that point Trico learned that the formula given to Mr. Haanstra had indeed been incorrect and that use of the correct formula yielded an equivalency figure of only 492 g/L for VOC emissions. At this point Trico urgently requested a meeting with Mr. Latif to resolve this issue. Trico also intensified its efforts to find an alternative manufacturing process, now that it knew for certain

its current process could not qualify under Rule 1107.

The first available date Mr. Latif could meet was October 6, 1987. At that time he confirmed that Trico's dip tank would not comply with Rule 1107 under an equivalency rating. He urged Trico to continue to investigate alternative paints or processes, and was very helpful in suggesting other alternatives which Trico might investigate. He further suggested Trico speak with District Legal Counsel since the issues involved now went beyond a technical determination.

On the same day, Trico then requested a meeting with Ms. Farnum, the District Counsel. It learned that she had left the District employ. Several days later Trico learned that Peter Greenwald of District Counsel would be assigned the case and Mr. Greenwald kindly agreed to revise his schedule to meet with Trico on October 13, 1987 to give Trico enough time to prepare for the October 29th Hearing.

In that meeting Mr. Greenwald and Mr. Latif explored various alternatives available to Trico for complying with the regulations. Based on that discussion, Trico has continued and expanded its investigation. However, no solution has been found to date, and Trico requests more time for further inquiry.

Trico's Current Process. Trico's dip tank utilizes 5-10 gallons per day of enamel paint mixed with naphtha-oxygenated solvent. The enamel paint adheres effectively to untreated surfaces and provides lubrication effects desired by customers. It also dries quickly. All of Trico's competitors use similar enamel-based paints.

For competitive reasons, Trico has for several years been investigating whether alternative or better paint mixtures are available. Paints with lower solvent contents are available, but the composition of the paint must change drastically. The coating then does not adhere effectively to Trico's type of products, and substantially longer drying times are required.

Water-based paints are also available. When used on untreated products, such paints adhere very poorly; the product will visibly flake even during shipping, rendering it unusable. If the product is stripped of contaminants prior to painting, adherence is better but still not sufficient for the exacting

quality required of well completion equipment.

Moreover, stripping of the product to permit use of water-based paint requires pre-treatment in a solvent bath. Trico is informed by its paint suppliers that such a stripping process would generate VOC emissions in excess of those currently experienced with the dip tank, so no improvement in air quality would be afforded by this alternative.

Attached is an October 2, 1987 letter from Ed De La Fuente, chemist for Guardsman Chemicals, Inc., Trico's current paint supplier. It summarizes the results of Trico's attempts to work with Guardsman to find an alternative paint.

The letter indicates that No. XEXP-0427-86 brown water borne enamel would provide the closest equivalent to Trico's current coating. The letter warns, however, that proper adhesion is likely only if viscosity and pH level are constantly monitored and the parts are <u>completely</u> stripped of all oil, grease, and other contaminants.

Trico's experiments have shown it cannot get 100% adherence from water-based paints under these conditions; consistent quality is simply impossible. Guardsman concedes quality is simply impossible. Guardsman concedes that absent perfect cleaning of the part, "the Water Borne paint will not adhere 100% to the part as it is coated."

Trico continues to work with Guardsman and other companies to find an acceptable paint product. Attached is a letter dated October 22, 1987 from Walter A. Hunt, Guardman's Chief Chemist, confirming that the company has still been unable to formulate an acceptable solvent-based coating, but that efforts are continuing.

Also attached are letters dated October 23, 1987 from Edward Spiering, Vice President of Mar-lak Products Co., confirming that it is working with Trico on this problem but has been unable to produce an acceptable product, and dated October 22, 1987 from Morton Thiokol, Inc. to the same effect. The latter correspondence specifically cautions, "We will be happy to continue to work on a product which meets Rule 1107 and yet gives you satisfactory field performance. <u>However, this is a project which will not be solved in a very short time period</u>." (emphasis added)

Proposed Steps To Comply With Rule 1107. Trico intends to take the following steps in the next four months to determine how it can comply with Rule 1107:

(1) Trico will continue to work with the above companies and will contact other paint companies to determine if there are alternative enamel-based paints similar to Trico's current coating but which would have a lower VOC content. Trico will obtain information about the characteristics of such paints and, if possible, test samples of products in its dip tank operation.

(2) Trico will contact other paint companies to determine if there are water-based paints with sufficient adherence qualities to work on Trico products. Again any samples obtained will be tested in Trico's operations.

(3) If a suitable water-based paint exists Trico will meet with manufacturers' representatives and District Staff to ascertain what stripping will be necessary to utilize the coating on Trico products and what air emissions will be generated by such a stripping tank and what mitigation measures could be taken.

(4) Trico will explore with District Staff - George Aimes and George Rhett have been suggested - the possibility of using 1,1,1-TCA for stripping (1,1,1-TCA is an exempt solvent for air quality purposes, Rule 1107(a)(41)), of using a carbon adsorber treatment to reduce VOC emissions, or of using Potassium Hydroxide, a non-organic compound which would greatly lower VOC emissions. (Please note, however, that the October 22, 1987 letter from Guardsman is pessimistic about use of 1,1,1-TCA.)

(5) Trico will further investigate whether enamel and water-based paints can be mixed to cut the VOC content while still retaining sufficient adherence capability, although Trico's previous inquiries suggest this is not feasible.

Schedule of increments of progress. Trico is anxious to bring its operations into compliance with Rule 1107 and put this matter behind it. Accordingly, Trico proposes the following schedule for the above steps to investigate ways to comply:

by December 15	-	Contact other paint companies with description of problem, ask for recommendations
	-	Work with current paint companies to develop alternative paint to our requirements
	-	Meet with District staff re carbon adsorber, exempt solvent possibilities
by January 15	-	test any paint substitutes found
	-	test use of any exempt solvents
	-	investigate mixing of paints to achieve lower solvent content
by January 30	-	get completed testing results, reports
	-	investigate stripping processes if required and estimate VOC emission
	-	investigate practicality of any air treatment systems to reduce VOC emissions in present system
by February 15	-	Prepare report on results of testing, investigation; identify alternative chosen; draft Action Plan
by February 22	-	Meet and confer with District staff and counsel re results, determine estimated date of compliance
by March 1	-	Appear before Board for approval of Action Plan, Compliance Date

Request For Continuance Of Variance. As the above schedule of increments of progress shows, Trico estimates that with diligent effort it will take at least four months for it to complete the investigation of compliance alternatives described above. It therefore requests that its Variance be extended from November 1 to March 1, 1988, at which time Trico will notify the Board of the results of its investigation and the steps taken to bring it into

compliance with Rule 1107.

Trico at present knows of no way in which a quality product can be manufactured with its current dip tank operation without generating VOC emissions in excess of Rule 1107. Because all products manufactured by Trico go through the dip tank operation, failure to extend the variance would in effect result in the closure of the Trico facility. The facility itself employs approximately 20-25 people with perhaps another 35-40 field representatives, salesmen and other secondary personnel who would be further unemployed should the Trico facility cease manufacturing. Trico therefore respectfully requests that the Board permit an additional four months for investigations prior to requiring such a drastic result.

Respectfully submitted,

HAINES, RUSS, McMURRY & de RECAT

By R D McMurry

Robert I. McMurry
Environmental Counsel
for Trico Industries, Inc.

RIM:mlb
Enclosures

Kupfer.ltr

GUARDSMAN®
5845 Miller Way, P.O. Box 1097, South Gate, California 90280
Telephone (213) 927-5501

GUARDSMAN CHEMICALS, INC.

October 2, 1987

Tri-Co Industries
19706 So. Normandie
Torrance, CA 90502

Attention: Mr. Leo Cahill

Re: Product No. XEXP-0427-86 Brown Water Borne Enamel

After testing 3 different Water Borne systems we feel the above is best for your dip tank application. However, please be aware that this product will require constant attention when being used in order to maintain a stable viscosity and control the pH value. We will work with you to establish the best operating viscosity and best parameter for the pH value. You should purchase a pH meter so that you can check the paint material at least 4 times a shift. Additives will be made available to you for adjusting the pH and viscosity when nesessary.

As you are aware while using your current product, minimum cleaning or no pre-treatment of the product you paint has been required. In order to make a successful change to Water Borne paint material a complete cleaning of all oil, grease and contaminants from your fabricating shop must be done. If this is not done the Water Borne paint will not adhere 100% to the part as it is coated. Where the paint does adhere, the adhesion will be temporary, as we have demonstrated with parts after 36-48 hours dry time.

In order to convert your system to Water Borne coating and maintain the quality of finish you are currently getting you must have clean, oil free and dry parts to paint.

GUARDSMAN PRODUCTS, INC.
Los Angeles Operation

Ed De La Fuente
Chemist

EdlF/bf

LABORATORY RECOMMENDATION

Date 10/2/87

Answering SPR/Form 90 Dated

Customer Tri-Co Industries

Product No. and Name XEXP-0427-86 Brown Water Borne Air Dry Enamel

Package Viscosity 50-60 sec. #2 Zahn Cup

Solids: Weight 43% Volume 32%

Application Method Spray

Reduction Recommended None/as necessary with water.

Application Viscosity pH Value 8.5-9.0

Drying or Bake Schedule Air dry or force dry

V.O.C. Data 108 grams/liter

9 lbs/gallon

Film Properties/Test Results Gloss 5-10

Additional Information Theoretical coverage @1 mil dry film thickness 514 sq.ft/gallon. All parts must be clean and dry before paint is applied.

E de la Fuente (R2)

Signed E. de la Fuente

GUARDSMAN ® 9545 Miller Way, P.O. Box 1097, South Gate, California 902
Telephone (213) 927-5501

GUARDSMAN CHEMICALS, INC.

October 22, 1987

Tri-Co Industries
19706 So. Normandie
Torrance, CA 90502

Attention: Mr. Leo Cahill

Re: Product 660-7003 Brown Air Dry Enamel

This is to confirm that we are unable to formulate an acceptable solvent based product with lower than 516 grams per liter or 4.3# per gallon for your current application system.

We feel that the use of trichloroethane as a reducing agent would be unacceptable because rapid evaporation rate would not maintain a stable viscosity. However, we are continuing to evaluate new formulations to achieve a lower Volatile Organic Compound.

GUARDSMAN PRODUCTS, INC.
Los Angeles Operations

Walter A. Hunt

Walter A. Hunt
Chief Chemist

WAH/bf

Mar-lak® PRODUCTS COMPANY

Quality Industrial Coatings 12316 E. Carson Hawaiian Gardens California 90716 (213) 420-7

October 23, 1987

Trico Industries, Inc.
19706 S. Normandie Ave.
Torrance, Ca. 90502

Attn: Leo Cahill

Dear Sir:

Upon examining the dip painting problem you are experiencing presently, we have not been able to produce at this time a paint formula for your operations that would comply with rule 1107, that requires you to maintain a constant VOC rating of no more than 420 grams per liter. As you had mentioned using exempt solvents to achieve the allowable VOC content in your dip tank would not give you the proper cure that you need for your operations. However, we will continue to work with you in an effort to help solve this problem at the earliest time possible.

Sincerely,

Edward Spiering
Vice President

EJS:djm

MORTON THIOKOL, INC.

Bee Chemical Company

October 22, 1987

Leo Cahill
Trico Industries
19706 S. Normandie Ave
Torrance, CA 90502

Dear Leo,

After reviewing products in our product line, we do not have any which will comply with rule 1107 of 420 grams per liter and offer exterior product protection for mild or spring steel.

We will be happy to continue to work on a product which meets rule 1107 and yet gives you satisfactory field performance. However, this is a project which will not be solved in a very short time period.

If you wish us to continue the project, please let us know.

Sincerely yours,

BEE CHEMICAL COMPANY

Ralph Lowes

Ralph Lowes

South Coast
AIR QUALITY MANAGEMENT DISTRICT
9150 FLAIR DRIVE, EL MONTE, CA 91731 (818) 572-6200

March 31, 1988

Trico Industries, Inc.
P.O. Box 4358
Torrance, CA 90502

Equipment located at:

19706 S. Normandie Ave.
Torrance, CA 90502

Attention: Mr. Leo Cahill, Plant Manager

APPLICATION NO. 166027

RULE 1107 CLASSIFICATION OF EXTREME-PERFORMANCE COATING

Reference is made to your application for Rule 1107 classification of extreme-performance coating.

After evaluating the data and information presented in your proposal for coatings applied to metal oil well completion equipment to be classified as extreme-performance, it has been determined that the brown dipping enamel, used for the above purpose, will comply with Rule 1107(b)(2) under the classification of extreme-performance.

The reason for such a determination is because the oil well completion equipment will be subject to harsh environmental, mechanical and shipboard conditions.

The coating described as a brown dipping enamel may be applied provided the following conditions are adhered to:

1. THE MAXIMUM VOLATILE ORGANIC COMPOUND CONTENT (VOC) OF EXTREME-PERFORMANCE COATINGS, LESS EXEMPT SOLVENT AND LESS WATER, MUST NOT CONTAIN MORE THAN 420 GRAMS PER LITER (3.5 POUNDS PER GALLON).

2.) THE OPERATOR SHALL KEEP ADEQUATE RECORDS TO VERIFY DAILY USAGE AND DAILY VOLATILE ORGANIC COMPOUND EMISSIONS IN A MANNER APPROVED BY THE DIRECTOR OF ENFORCEMENT IN WRITING. SUCH RECORDS MUST BE RETAINED FOR A PERIOD OF TWO YEARS AND BE MADE AVAILABLE UPON REQUEST OF THE EXECUTIVE OFFICER OR HIS REPRESENTATIVE.

Retain this letter in your files. It is recommended that a copy be displayed in the vicinity where this coating is applied. The Inspector for the South Coast Air Quality Management District's Enforcement Division should be notified of this change in coating classification.

Should there be any questions regarding this approval letter, please contact Mr. William G. Milner at (818) 571-5169.

Very truly yours,

William J. Dennison
Director of Engineering

David E. Schwien
Air Quality Engineering Manager

WGM:AJW
cc: Douglas Newton, Senior Enforcement Manager

CAMILLA N ANDREWS
JEFF BERKE
CRAIG J de RECAT
WALTER L HAINES
ROBERT I McMURRY
LARRY C RUSS

LAW OFFICES OF
HAINES, RUSS, McMURRY & de RECAT
12424 WILSHIRE BOULEVARD - SUITE 1200
LOS ANGELES, CALIFORNIA 90025

TELEPHONE (213) 826-7474
TELEFAX (213) 826-8991

NORTHERN CALIFORNIA OFFICE
177 FRONT STREET
DANVILLE CALIFORNIA 94526
(415) 837-8257

March 30, 1988

Mr. Bill Milner
South Coast Air Quality
Management District
9150 Flair Drive
El Monte, CA 91731

Re: Trico Industries
Case No. 3304-1

Dear Mr. Milner:

This will confirm our telephone conversation of March 29 which appears to have resolved the above-entitled matter.

You indicated that you had reviewed and approved Trico's Application for an Extreme Performance Coating Classification for the paint dipping operation which it is currently using. Under Rule 1107 of the South Coast Air Quality Management District, the VOC content of a paint dipping operation with such an Extreme Performance Coating Classification may not exceed 420 g/l.

District inspectors recently took a field sample from the Trico paint dipping operation with the newly formulated paint. Although we had anticipated it might be six to eight weeks before such test results would be available, you were able to tell me that the sample had been processed and tested at 420 g/l. Accordingly, it was your conclusion that the Trico paint dipping operation was now operating in compliance with Rule 1107, given its Extreme Performance Coating Classification, and that no alternative emission control plan was needed. You told us that you would therefore cancel the Alternative Emission Control Plan Application.

We appreciate your cooperation in working this matter out. Your assistance and that of Mr. Latif before you, helped Trico a great deal in its relationship with the Air Quality District.

LAW OFFICES OF
HAINES, RUSS, MCMURRY & de RECAT

If you have any questions or further comments, please feel free to contact me at (213) 826-7474.

Very truly yours,

RIMcMurry

Robert I. McMurry
Haines, Russ, McMurry & de Recat

RIM:mlb

cc: Mr. Leo Cahill
Mr. Newton Wells

MILNER.LTR

CAMILLA N ANDREWS
JEFF BERKE
CRAIG J de RECAT
WALTER L HAINES
ROBERT I McMURRY
LARRY C RUSS

LAW OFFICES OF
HAINES, RUSS, McMURRY & de RECAT
12424 WILSHIRE BOULEVARD - SUITE 1200
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NORTHERN CALIFORNIA OFFICE
177 FRONT STREET
DANVILLE, CALIFORNIA 94526
(415) 837-8257

March 30, 1988

Cindy Simovich
South Coast Air Quality
Management District
Legal Department
9150 Flair Drive
El Monte, CA 91731

Re: Trico Industries
Case No. 3304-1

Dear Ms. Simovich:

At the last hearing on the above-entitled matter, we promised to notify you when we learned the results of the tests done on Trico's paint dipping operation and to consult with you concerning further action in this case. Enclosed please find a letter to Bill Milner summarizing a telephone conversation in which he reported the results of the testing done on the Trico facility, approved our Application for an Extreme Performance Coating Classification, and indicated that based on the test results of 420 g/l the Trico operation was now in compliance with Rule 1107. It is his opinion that the alternative emission control plan is no longer needed and should be cancelled.

Trico now understands that its current paint dipping operation is in compliance with Rule 1107 and can continue to operate without a variance or an alternative emission control plan from the Board. That would appear to resolve the above-entitled case.

If we have misunderstood Mr. Milner, or if in your opinion any further action before the Board appears necessary, please contact me as soon as possible. We will cooperate in whatever is necessary to bring this case to a conclusion.

Thank you for your assistance in this matter.

Sincerely,

RIMcMurry

Robert I. McMurry
Haines, Russ, McMurry & de Recat

RIM:mlb
cc: Mr. Leo Cahill
Mr. Newton Wells

INTEROFFICE COMMUNICATION

CORPORATE ENVIRONMENTAL DEPARTMENT

CONFIDENTIAL

August 16, 2006

TO: D. N. Lewis

CC: R. E. Bangert II
L. C. Robbins

FROM: F.S. Benz, PE

SUBJECT: 2006 Environmental Audit – Former Trico Industries - Torrance, CA

EXECUTIVE SUMMARY

On July 6th, 2006 CED conducted an Environmental Audit of the Trico Torrance, CA property. CED appreciates the efforts to provide access to the site for the inspection.

Attached is the Environmental Audit Report with audit recommendations. Mighty has made considerable efforts in attempting to reduce the amount of oil and other contaminants spilled on the site. The corridor between buildings A and B/C appears to have seen improvement and Mighty personnel indicated that fewer spills have occurred. CED will continue to monitor the situation. The mandatory items follows:

1. (M-1) At the NW corner of the property and just north of Building C a "DynaTech" labeled dumpster sits atop a noticeably stained area. The stained area appeared to be in an area of older asphalt and gravel and did not appear to be impervious to liquids. The stained area is to be cleaned up to the full extent of contamination whether on site or off, and soil sampling conducted to ensure complete removal of impacts to site soils.

2. (M-1) Along the eastern fence line, there appears to be one or more areas where oily liquids have been illegally dumped. Noticeable staining can be observed off-site from the railroad track side of the fence along the eastern boundary. The stained area appears to be along the dividing line between the two properties where the former Trico site concrete pavement meets the neighboring concrete storm drainage channel. Mighty is to cease and desist the illegal dumping of what appears to be waste oil. The stained area is to be cleaned up to the full extent of contamination whether on site or off, and soil sampling conducted to ensure complete removal of impacts to site soils.

3. (M-2) A piece of equipment was being uncrated and drained to be brought into condition for service. Although the draining of equipment is less frequent, the activity needs to be eliminated from the site entirely. Mighty is to maintain spill materials in the event of accidental spills, but should also move all equipment drainage activity to their own property. A copy of all current chemical MSDS's used on site must also be provided.

Please submit your initial action plan and timetable for addressing recommendations presented in the Audit Report within 30 days of receipt. Please use the format provided for your initial response and for updates with each of your facility's Quarterly Environmental Reports (see ECP #1, B(8)). If you have any questions regarding the audit, please call F. S. Benz at (425)468-7901 or e-mail at fred.benz@paccar.com

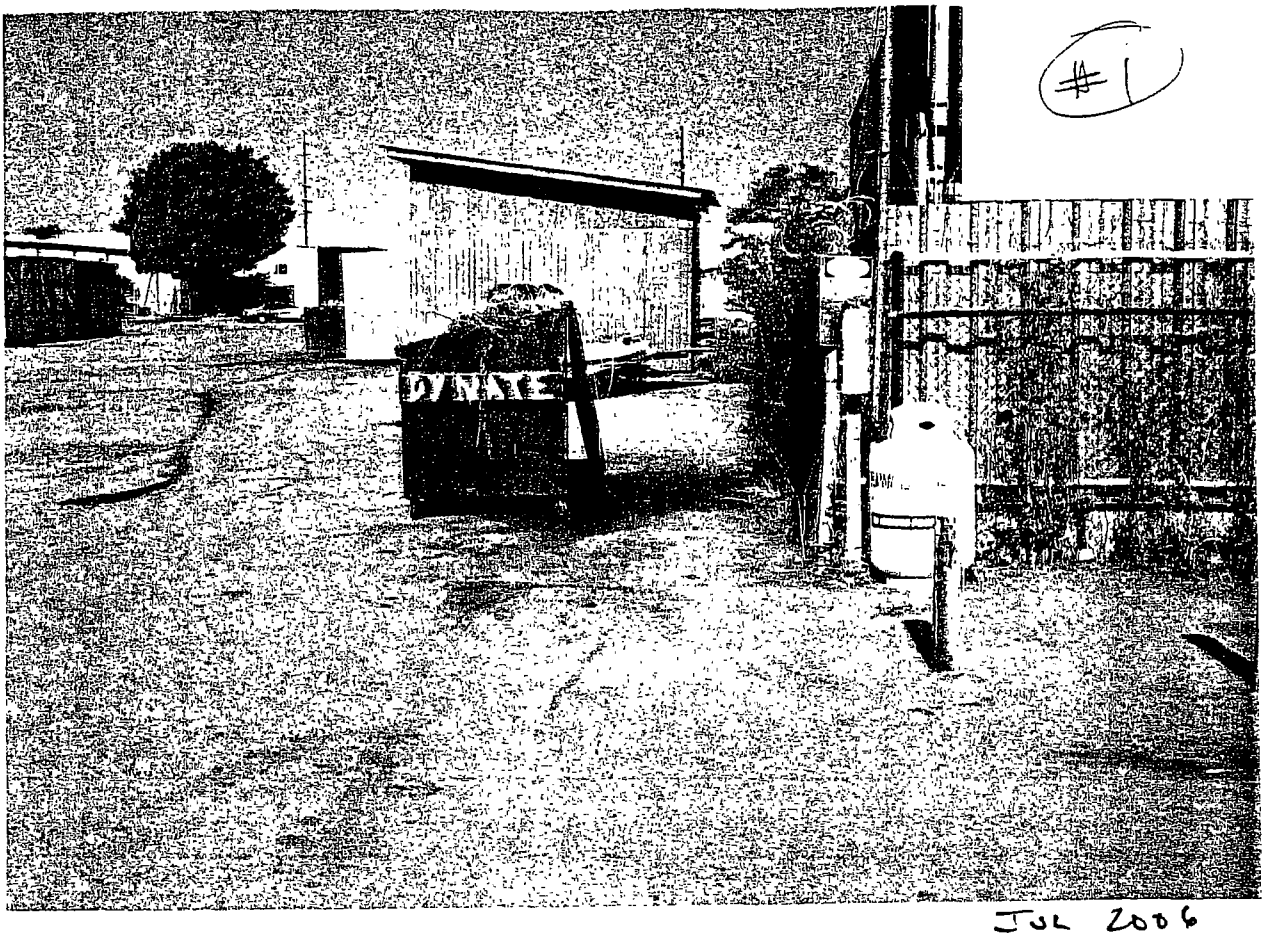
CAT NO 4487

Number	Rating (See last page)	Description	Recommendation	Status	Target Completion Date
1	M-1	**Oil Spills** –At the NW corner of the property and just north of Building C a "DynaTech" labeled dumpster sits atop a noticeably stained area. The stained area appeared to be in an area of older asphalt and gravel and did not appear to be impervious to liquids.	The stained area is to be cleaned up to the full extent of contamination whether on site or off, and soil sampling conducted to ensure complete removal of impacts to site soils.		
2	M-1	***Oil Spills*** *- Along the eastern fence line, there appears to be one or* more areas where oily liquids have been illegally dumped. Noticeable staining can be observed off-site from the railroad track side of the fence along the eastern boundary. The stained area appears to be along the dividing line between the two properties where the former Trico site concrete pavement meets the neighboring concrete storm drainage channel Due to the seam between the two concrete areas, the concrete will have to be removed to ensure no exposure has occurred to underlying soils.	*Mighty is to cease and desist* the illegal dumping of what appears to be waste oil. The stained area is to be cleaned up to the full extent of contamination whether on site or off, and soil sampling conducted to ensure complete removal of impacts to site soils.		
3	M-2	At the west entrance to Building "A", a piece of equipment was being uncrated to be brought into condition for service. A drain pail was positioned to catch liquids draining from the packing. The liquid appeared to be water with some oil or preservative. In the past, multiple machines were being drained at one time, and it appears that the activity has reduced considerably. Additionally, since 2004 Mighty had positioned spill kits in the area and stated that they now ensure that employees continually monitor the activity.	Although the draining of equipment is less frequent, the activity needs to be eliminated from the site entirely. Mighty is to maintain spill materials on site in the event of any accidental spills, but should also move all equipment drainage activity to Mighty's owned parcel. A copy of all current chemical MSDS's used on site must be provided.		

Number	Rating (See last page)	Description	Recommendation	Status	Target Completion Date
4	A	A consistent problem observed over the years has been the high volume of dunnage, rejects, mistakes stored throughout Building B and around the buildings. Mighty has taken measures to reduce that during this past year, and PACCAR encourages this effort to continue. One rather large area of dunnage and debris clutter was observed in the NE corner of the property.	It is recommended that the dunnage, throwaway material and general garbage continue to be reduced and cleaned up across the site.		

For your reference recommendations are based on PACCAR policy outlined below:

- Mandatory (M-1) — Required actions to comply with the current applicable federal, state and local laws or regulations.
- Mandatory (M-2) — Recommended actions to comply with PACCAR environmental policies.
- Advisory — Recommended actions, not specifically required by current laws, regulations or PACCAR policy, which if not taken may cause environmental damage and/or future environmental liability.



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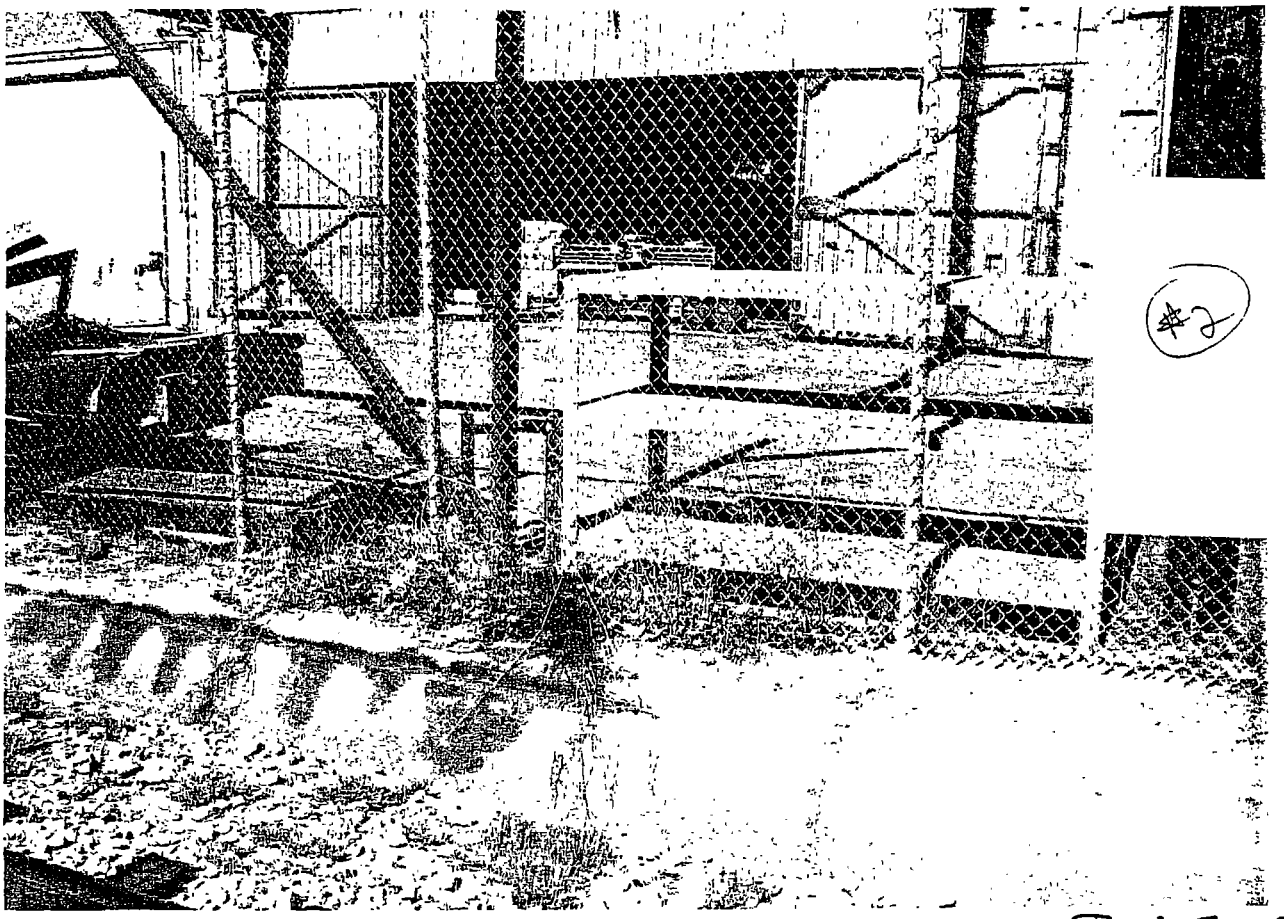

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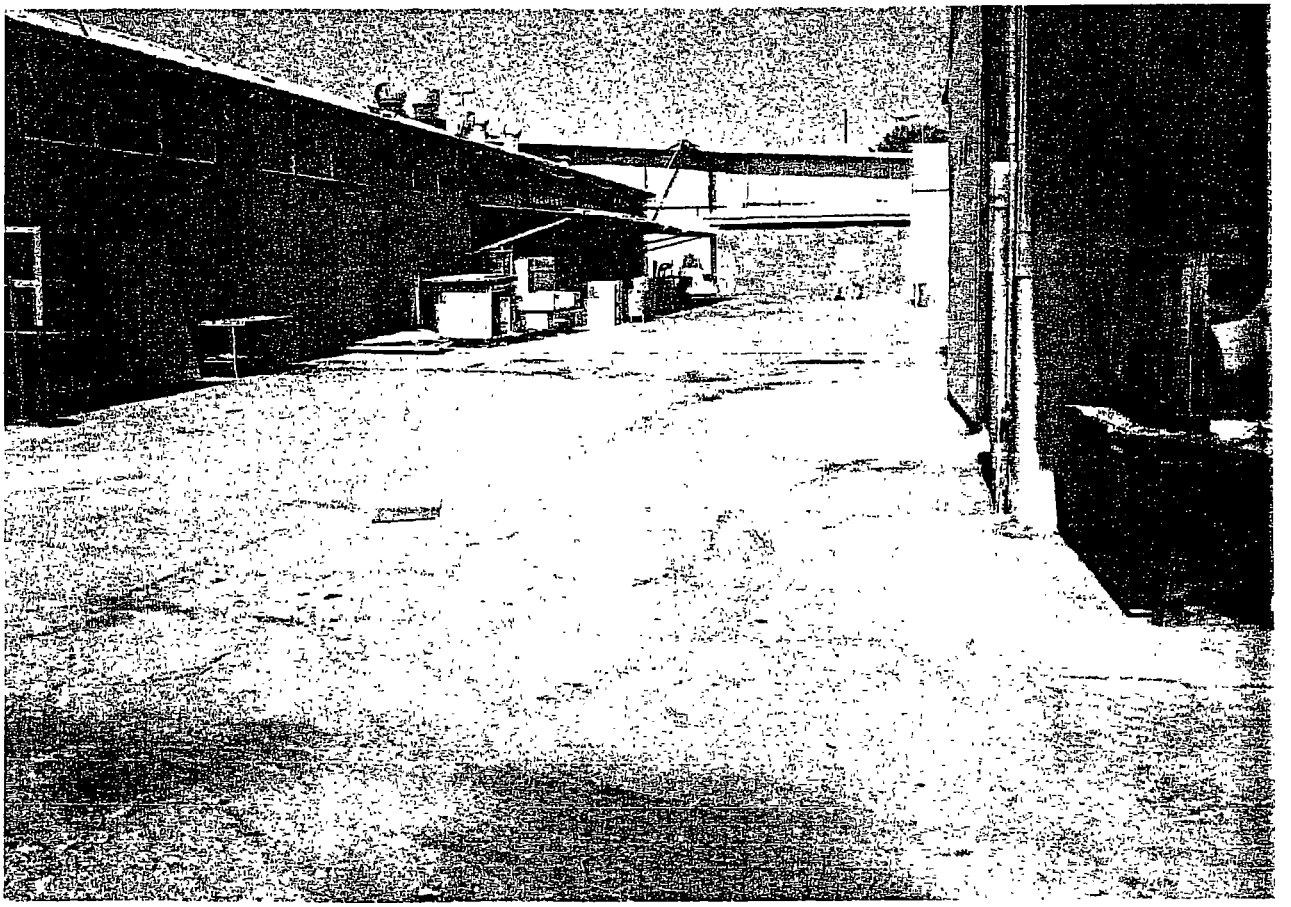

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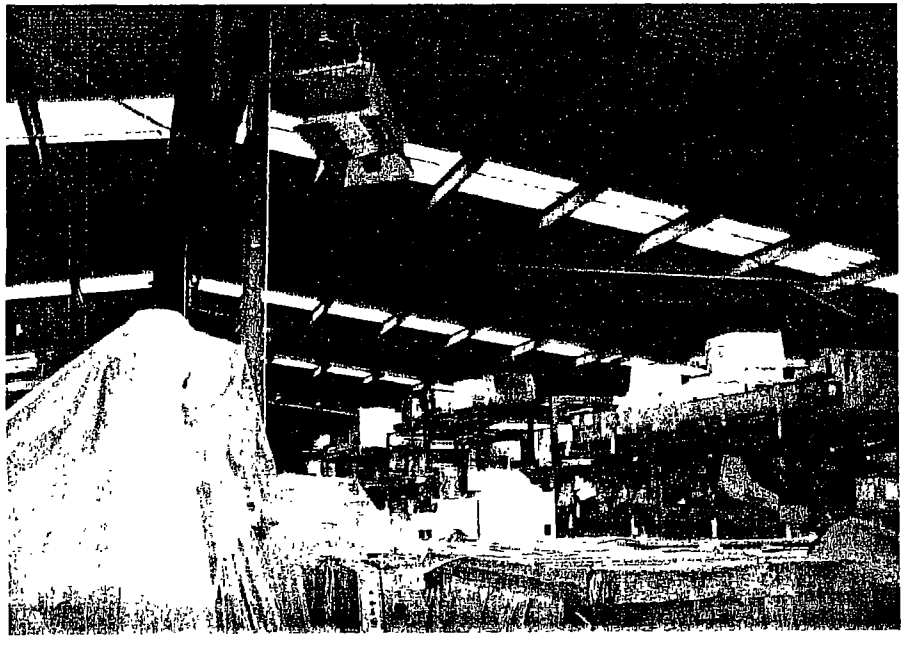

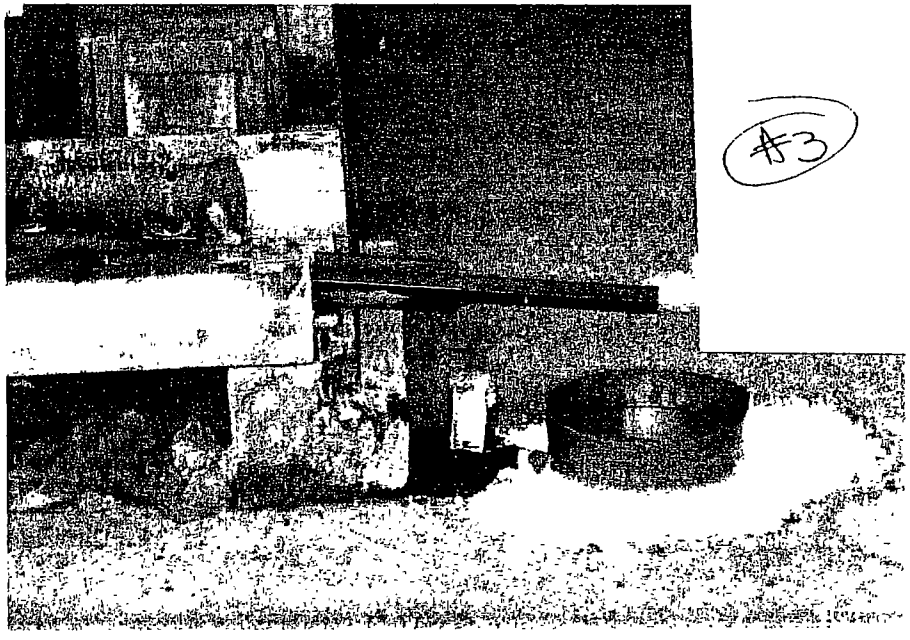

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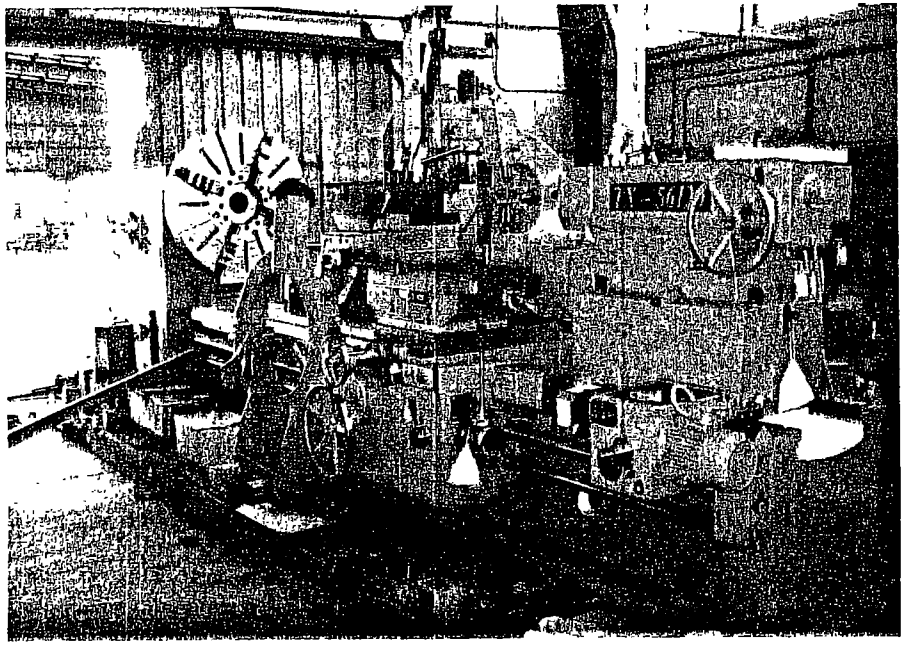
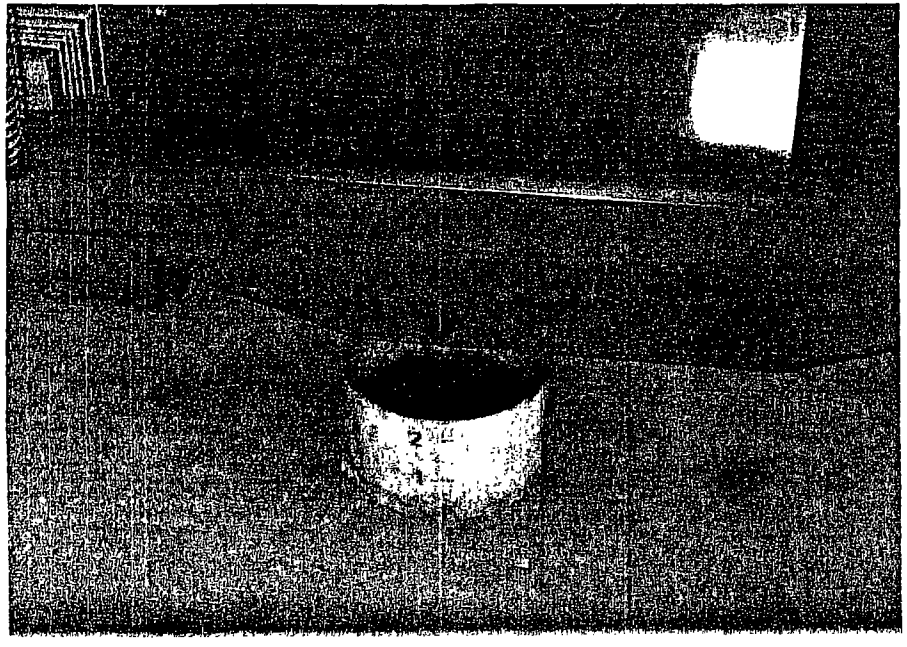


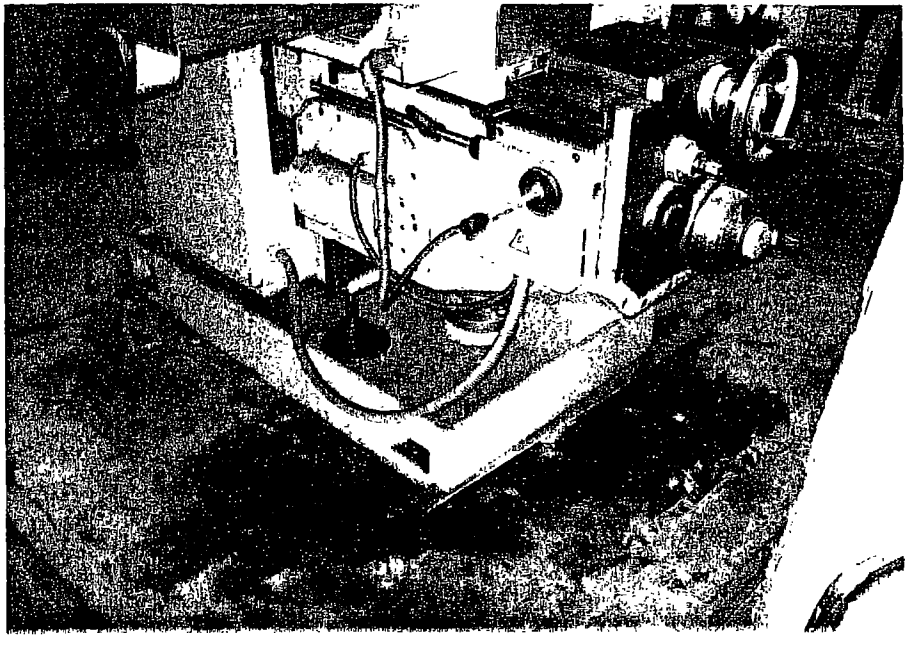
WING A MACHINE STORAGE / UNPACKING

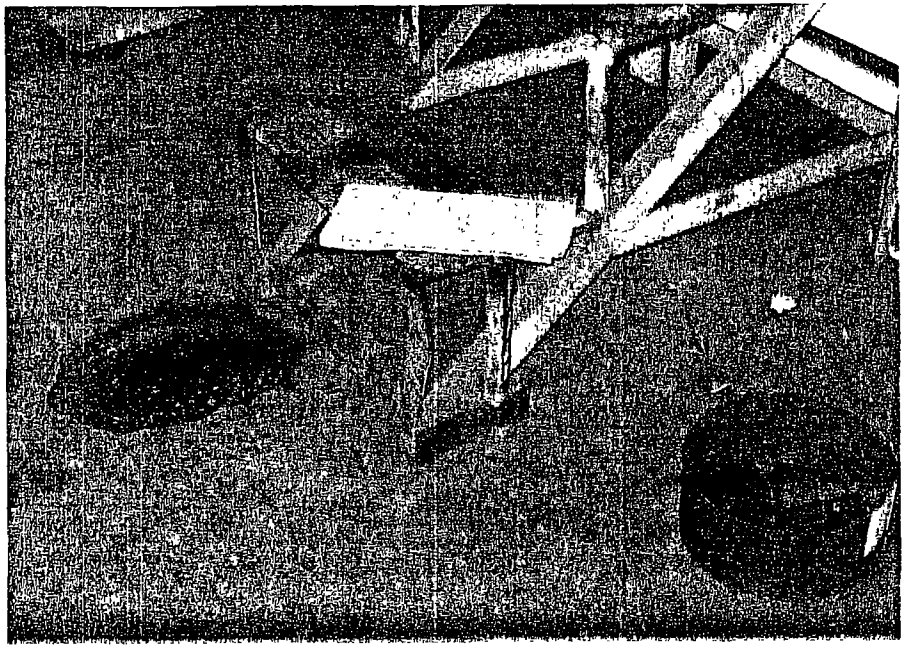
ALL
JULY 2006

PACCAR 02183

AIL
2005



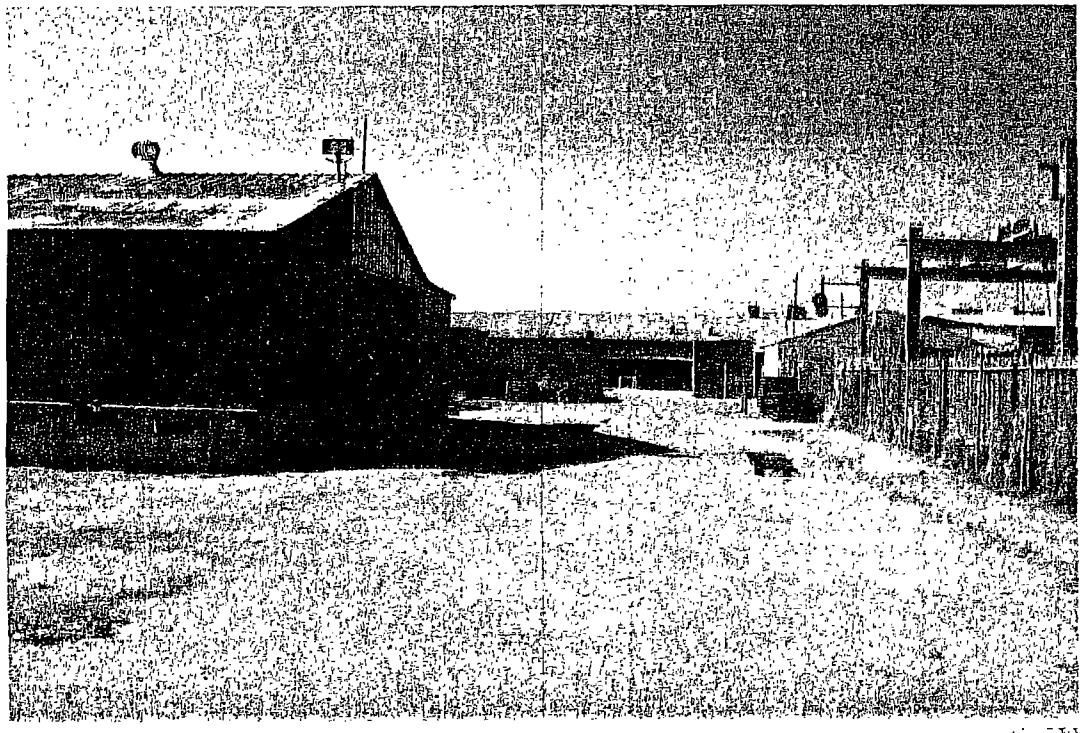


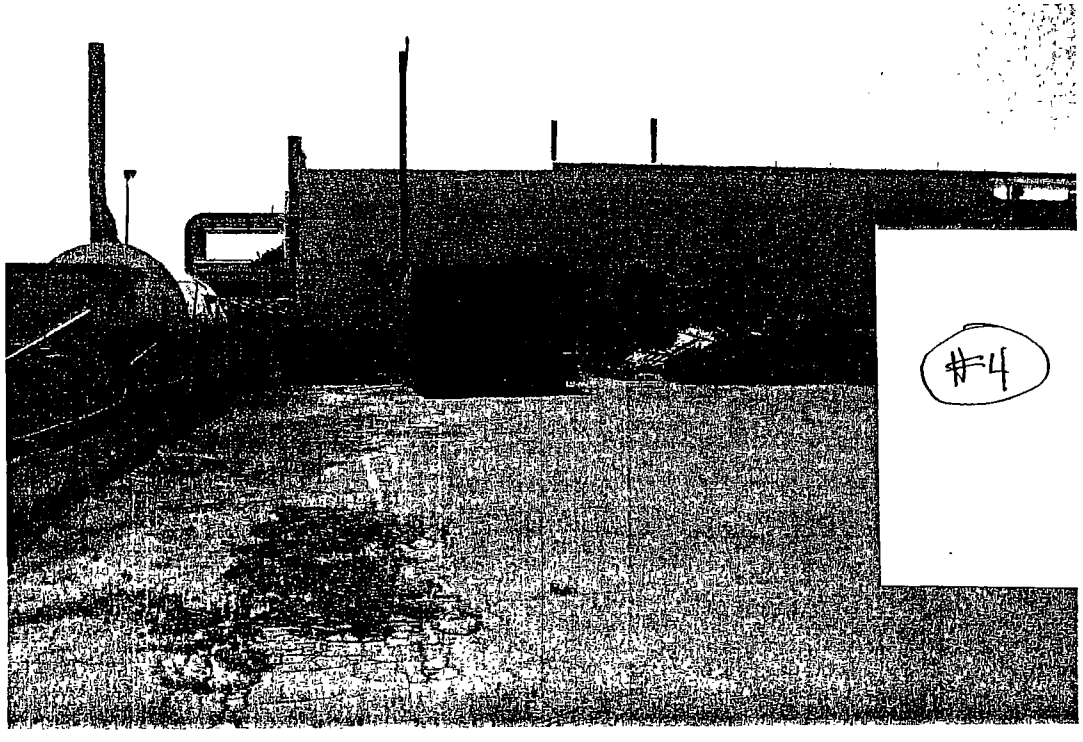


RING A MACHINE USE

AIL
2005

PACCAR 02184





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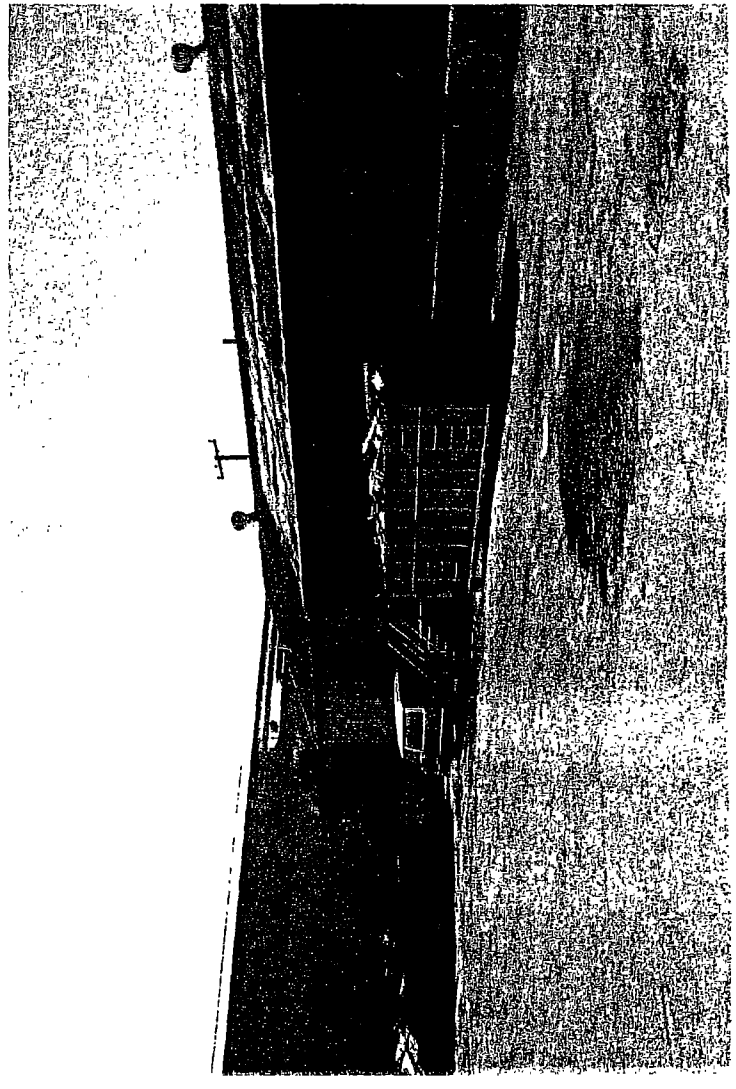


Au
2006

CORPORATE ENVIRONMENTAL DEPARTMENT

April 24, 2006

TO: D. N. Lewis

CC: R. E. Bangert II
L. C. Robbins

FROM: F.S. Benz, PE

SUBJECT: 2004 Environmental Audit – Final Report
Former Trico Industries - Torrance, CA

Thank-you for your response to the 2004 Environmental audit report for the former Trico Industries facility at Torrance, CA.

The Corporate Environmental Department (CED) concurs with the final responses and appreciates your efforts to address all the recommendations. Please keep CED informed of your progress in addressing the audit recommendations in the Quarterly Environmental Report (ECP #1).

Please call me at (425)468-7901 if you have any questions or comments on the upcoming audit, or e-mail me at fred.benz@paccar.com.

Number	Rating (See last page)	Description	Recommendation	Status	Target Completion Date
1	M-1	**Mighty Enterprises, Inc.** At the west entrance to Building "A", what appears to be a wash area has operated for some time. Coloration and staining appear to indicate that something other than water has been used repeatedly at that location. Consultant advised CED that in the past they had seen Mighty employees cleaning off a piece of equipment in the area. See Pictures 1, 2, and 3 attached.	It is recommended that Mighty Enterprises be advised that the use of cleaning fluids and solvents or any equipment washing can only be used within a contained area that can control and capture all cleaning fluids. Drain line as shown in Picture 3 needs to be tight-lined to sanitary sewer. Cleaning fluids should be disposed of properly per local, state, and federal regulations.	Tenant notified of defects by letter dated 11/3/2005. (Copy Attached).	6/30/2006
2	M-1	**Mighty Enterprises, Inc.** At the west entrance to Building "A", an open drainage grate allows water to drain into a catch basin that appears to drain by pipeline to another catch basin at the East entrance to Building "A". Also near to the East entrance to Building "A" is what has been labeled a former Cesspool. It has not been confirmed how the drainage system works or if the Cesspool is operational.	It is recommended that the catch basins and drain lines need to be traced to confirm that they are connected to an active sanitary sewer line. It is also recommended that the Cesspool be completely removed and any sanitary connections be directed to an active sanitary sewer line.	See above	
3	M-1	**Mighty Enterprises, Inc.** Near to the BL-06 excavation, the chemist was describing detections of gas range organics that are more accurately described to be mineral spirits. It is possible that Mighty Enterprises cleans equipment near to BL-06 similar to that described above at the west entrance to Building "A". Consultant advised CED that in the past they had seen Mighty employees cleaning off a piece of	It is recommended that Mighty Enterprises be advised that cleaning fluids and solvents or any equipment washing can only be done within a contained area that can control and	See above.	

Number	Rating (See last page)	Description	Recommendation	Status	Target Completion Date
		equipment in the area. It is suspected that equipment cleaning is done with some combination of mineral spirits, an unknown degreaser, and/or soap and water. Under the terms of the lease agreement with Dynatek Inc. and Mighty Enterprises, Inc., tenant is to provide information for any and reportable use of all Hazardous Substances on site. Hazardous substances shall include, but not be limited to: hydrocarbons, petroleum, gasoline, crude oil, or any products, byproducts or fractions thereof without prior consent.	capture all cleaning fluids. It is recommended and required that all cleaning fluids should be disposed of properly per all applicable regulations. A copy of all current chemical MSDS's used on site must be provided.		
4	A	**Mighty Enterprises, Inc.** Inside the North half of Building "A" there are lathes, milling machines, cutters, drill presses, and other machines that require cutting fluids, hydraulics and lubricants Some leaks and drips were noticed and rags are used to soak up the spills.	It is recommended that a spill kit be provided for the area, and that floor dry be included in the kit in the event of an oil spill.	See above.	
5	A	**Mighty Enterprises, Inc.** Outside of Building "A", along the North side it appears that some disassembly of equipment takes place. There is a carbide cutoff saw and Oxy/Acetylene equipment. At the time of inspection, several discarded (used) pieces of equipment were present, and one older crankcase piece of equipment appeared to have leaked oil to the surface based on the surface staining seen in the area.	It is recommended that a spill kit be provided for the area, and that floor dry be included in the kit in the event of an oil spill.	See above.	
6	A	**Dynatek, Inc.** Dynatek makes all the umbrella assemblies for Home Depot across the country Buildings "B" & "C" are used primarily by Dynatek for the manufacture of umbrellas. Building B is used for the assembly of the manufactured cloth covers to the frame assemblies. Building B is also used for storage of the wooden and metal frame assemblies, umbrella anchor weights, finished cloth umbrella covers prior to assembly, and the final shipping center Building C is used by Dynaktek as a seamstress operation to manufacture umbrella covers, both cloth and	It is recommended that the dunnage, throwaway material and general garbage be cleaned up across the site.	See above.	

Number	Rating (See last page)	Description	Recommendation	Status	Target Completion Date
		specialty laminated cloth covers for patio umbrellas. The largest problem observed is the high volume of dunnage, rejects, mistakes stored throughout Building B and along the east side of the building.			
7	A	**Dynatek, Inc.** Along the eastern fence line an abandoned air conditioning unit is discarded on the property.	It is recommended that the A/C unit be properly disposed of.	See above.	

For your reference recommendations are based on PACCAR policy outlined below:

- Mandatory (M-1) — Required actions to comply with the current applicable federal, state and local laws or regulations
- Mandatory (M-2) — Recommended actions to comply with PACCAR environmental policies.
- Advisory — Recommended actions, not specifically required by current laws, regulations or PACCAR policy, which if not taken may cause environmental damage and/or future environmental liability.

RESPONSE #21

ORM S-608 (REV. 5-71)

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS

M59885 SF (5-8-87)

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
455 Golden Gate Ave., San Francisco 94102

Permit to Operate Air Pressure Tank

TANK NO. 7639-69

TRICO INDUSTRIES INC.
19706 S. Normandie
Torrance, CA 90502

R

Owner or User	Location of Tank
Same	Outside E Side 19706 S. Normandie, Torrance

This Permit to Operate shall be kept conspicuously posted under glass on or near the tank or at a convenient location near the tank, and shall be made available to any authorized person.

PAID
MAY 22 1987
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

This Permit expires
☐ three years from date of inspection
☒ five years from date of inspection

Labor Code, Division 5, Part 6

January 21, 1987
DATE OF INSPECTION

THIS IS TO CERTIFY *that the above described Air Pressure Tank has been inspected by the Division of Industrial Safety and may be operated at a pressure not to exceed* 200 *pounds per square inch.*

NAME OF INSPECTOR F. Villanueva

EMPLOYED BY Div. of Occupational Safety & Health
(NAME OF INSPECTION AGENCY)

62149-501 7-78 75M ①△ OSP 12

PACCAR 02190

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS

INVOICE

17828-501 ⊕-83 10M QUIN ① • OSP
FORM 5-159-C

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

No. M 59885SI

Please make remittances payable to DEPARTMENT OF INDUSTRIAL RELATIONS (SAFETY)
P.O. BOX 603, SAN FRANCISCO 94101-0603

May 8, 1987

FOR: SERVICES RENDERED ☒ ■

SUPPLIES ☐

TRICO INDUSTRIES INC.
19706 S. Normandie
Torrance, CA 90502

R F. Villanueva - Bush-South

1-21-87 - Inspected at 19706 S. Normandie, Torrance.

Air Tank Nos: 7639-69 R
5287-81 NR

1 Hour @ 60.00 per hour $60.00

PAID
MAY 22 1987
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

lease return attached copy of invoice with ayment to assure credit of correct account.

Postmark of payment must be dated before 60 days from date of invoice otherwise 100% penalty will be charged. Labor Code, Section 7728.

PACCAR 02191

FORM 3-608A

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
PRESSURE VESSEL UNIT
P.O. BOX 603, SAN FRANCISCO, CA 94101

M59885 SF

INSPECTION PERMIT for OPERATION of AIR PRESSURE TANK

Pursuant to Labor Code 7681(b) and 7683(b)

TANK NO 5287-81

NB A19427

TRICO INDUSTRIES INC.
19706 S. Normandie
Torrance, CA 90502

NR

INSPECTED BY Dosh-South F. Villanueva

Owner or User	Location of Tank
Same	Outside East Shed 19706 S. Normandie, Torrance

Date of Inspection	Date of Invoice	
1-21-87	5-08-87	INSPECTION FEE $ -----

This Permit to Operate shall be kept conspicuously posted under glass on or near the tank or at a convenient location near the tank and shall be made available to any authorized person.

"This permit shall remain effective indefinitely unless one of the following contingencies occurs.

(1) There is a change in ownership and permanent location of the tank.
(2) There is an alteration or change in the tank which affects the tank's safety, or
(3) The tank is not in compliance with applicable Labor Code provisions and regulations contained in Title 8 of the California Administrative Code

Because this tank is not subject to periodic permit inspection by the Division, the owner, operator, or person having custody of the tank is responsible for notifying the Division if any of the contingencies enumerated above occur.

The issuance of this permit does not constitute a representation by the Division that based upon its inspection the tank will remain in a safe operating condition indefinitely The owner, operator, or person having custody of the tank bears sole responsibility for assuring that the tank remains in compliance with applicable regulatory provisions following the Division's inspection."

At the date of inspection this tank was found to be in compliance with the Calif Administrative Code, Title 8 for Air Pressure Tanks for a pressure not to exceed 150 pounds

25491-501 4-82 20M CAM ① ● OSP

PACCAR 02192

FORM NO. S-6505 (REV. 4-82)

STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH
PRESSURE VESSEL UNIT
P. O. BOX 603, SAN FRANCISCO, CA 94101

INVOICE No. L 1884710

Permit to Operate Liquefied Petroleum Gas Tank

TANK NO. 5975-76 SFS
Mfg. No. B-58822)
NR

Ted Johnson Propane
5140 N. Elton St.
Baldwin Park, CA 91706

Attn: Accounts Payable

INSPECTED BY F. Villanueva

Owner or User	Location of Tank
Trico Industries	(N E yard) 19706 S. Normandie, Torrance, CA 90502

Date of Inspection

03-19-86

05-30-86

PAID 60.00
JUN 20 1988
DIV. OCC. SAFETY & HEALTH
SANTA FE SPRINGS OFFICE

This Permit to Operate shall be kept conspicuously posted under glass on or near the tank or at a convenient location near the tank, and shall be made available to any authorized person.

This permit expires
- ☐ when there is a change or alteration affecting the safety of the installation
- ☒ three years from date of inspection
- ☐ five years from date of inspection

THIS CERTIFIES that the above described Liquefied Petroleum Gas Tank has been inspected by the Division of Industrial Safety and may be operated at a pressure not to exceed 250 *pounds per square inch.*

Labor Code, Division 5, Part 6

/jh

Inspection Agency DIVISION OF INDUSTRIAL SAFETY

QUIN ⓘT OSP

PACCAR 02193

South Coast
AIR QUALITY MANAGEMENT DISTRICT

HEADQUARTERS, 9150 E FLAIR DR., EL MONTE, CA 91731

JULY 16, 1997

TRICO INC INC, B & W DIV IC - 008599
P.O. BOX 4359
TORRANCE CA 90510

OFFICIAL DOCUMENT

ANNUAL VALIDATION OF PERMIT TO OPERATE

DEAR PERMIT HOLDER:

THIS LETTER IS THE OFFICIAL NOTICE OF RENEWAL AND ACKNOWLEDGEMENT OF PAYMENT FOR THE ATTACHED LIST OF PERMIT(S) TO OPERATE. OPERATION UNDER THIS LETTER AND THE PERMIT(S) WHICH IT RENEWS MUST BE CONDUCTED IN COMPLIANCE WITH ALL INFORMATION INCLUDED WITH THE INITIAL APPLICATION AS WELL AS THE INITIAL PERMIT CONDITIONS. THE EQUIPMENT MUST BE MAINTAINED AND KEPT IN GOOD CONDITION AT ALL TIMES. UNLESS OTHERWISE SPECIFICALLY STATED, THE ORIGINAL PERMIT TO OPERATE REMAINS IN FULL FORCE AND EFFECT, AND MUST BE RETAINED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.

FOR FURTHER INFORMATION, OR IF YOU HAVE ANY QUESTIONS REGARDING THIS LETTER, PLEASE CALL CUSTOMER SERVICE AT (818) 572-6326.

SINCERELY,

JAMES M. LENTS, PH.D.
EXECUTIVE OFFICER

NEW CONDITIONS (NONE)
RENEWAL(S) ATTACHED

1704

PACCAR 02194

South Coast
AIR QUALITY MANAGEMENT DISTRICT

HEADQUARTERS, 9150 E FLAIR DR., EL MONTE, CA 91731

JULY 16, 1987

TRICO IND INC, B & W DIV
19706 S NORMANDIE AV
TORRANCE CA 90510000

ID - 118599

PERMIT RENEWALS

PERMIT NUMBER	DESCRIPTION	APPLIC NUMBER	EXPIRATION DATE
M21679	TANK, PAINT DIP	C39824	08/16/88

1702

PACCAR 02195

B

APPLICATION FOR CLOSURE
HAZARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
2250 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033

OWNER:
NAME Trico Industries, Inc
ADDRESS 15707 S. Main Street CITY Gardena STATE CA ZIP 90247

FACILITY:
NAME Trico Industries Torrance Facility
SITE ADDRESS 19706 S. Normandie Ave CITY Torrance, CA ZIP 90502
MAILING ADDRESS Same CITY STATE ZIP
CONTACT PERSON Leo P. Cahill TITLE Plant Manager PHONE (213) 516-5115

CLOSURE REQUESTED:
☐ TEMPORARY (REFER TO CONDITIONS A AND B ON BACK OF THIS FORM)
EFFECTIVE DATE OF CLOSURE
DATE OPERATION WILL RESUME
☒ PERMANENT, TANK(S) REMOVAL DISPOSAL DESTINATION National Metals in Ontar
(REFER TO CONDITIONS A AND C ON BACK OF THIS FORM)
☐ PERMANENT, TANK(S) IN PLACE
(REFER TO CONDITIONS A AND D ON BACK OF THIS FORM)

TANK(S) DESCRIPTION: (ATTACH ADDITIONAL LIST IF NECESSARY.)

TANK NO.	MATERIAL	AGE (YEARS)	CAPACITY (GAL)	MATERIALS STORED (PAST AND PRESENT)
	Single Wall Steel	25+	500 gal.	Unleaded Gasoline

	YES	NO
HAS ANY UNAUTHORIZED DISCHARGE EVER OCCURRED AT THIS SITE?	☐	☒
HAVE STRUCTURAL REPAIRS EVER BEEN MADE ON THESE TANKS?	☐	☒
WILL NEW UNDERGROUND TANKS BE INSTALLED FOLLOWING CLOSURE?	☐	☒
WILL ANY WELLS, INCLUDING MONITORING WELLS, BE ABANDONED?	☐	☒

IF THE RESPONSE TO ANY OF THE ABOVE QUESTIONS IS YES, ATTACH EXPLANATION.

BY SIGNATURE BELOW THE APPLICANT CERTIFIES THAT HE/SHE HAS READ AND UNDERSTANDS THE CONDITIONS ON THE REVERSE SIDE OF THIS FORM AND THAT THE STATEMENTS AND DISCLOSURES ABOVE ARE TRUE AND CORRECT.

APPLICANT'S SIGNATURE DATE
OWNER ☐ OPERATOR ☐ CONTRACTOR
STATE LICENSE NO.

TO BE COMPLETED BY THE COUNTY ENGINEER

BY SIGNATURE BELOW APPLICANT IS GRANTED APPROVAL TO PROCEED WITH THE CLOSURE.

FEE COLLECTED $
PERMIT NO
FILE NO R/C

DATE
TO ARRANGE FOR AN INSPECTION, TELEPHONE

CL205 Revised 9/86

6. If your business has a license or permit from any of the following agencies, please indicate.

a. Los Angeles County Sanitation District
Industrial Waste Water Discharge Permit # ~~EAHQ26-00-9481~~
Hazardous Materials Underground Storage Permit #_____

b. Los Angeles County Health Department
Hazardous Waste Control License # L-137528-1

c. Environmental Protection Agency
Generator Identification Number # CAX000014472

d. Cal - OSHA
Carcinogen Registration Form #_____

e. California Department of Health Services Radioactive Materials License #_____

f. City of TORRANCE Business License # 50517

g. Los Angeles County Business License #_____

h. Fire Department Permit-Type(s) _____

_____

SECTION III: CERTIFICATION

I, Leo Cahill, certify that the above information is accurate to the best of my knowledge. I understand that this information will be used to determine my business' status with regard to the Health and Safety Code Disclosure Requirements and that submission of false information constitutes perjury under the law.

Signature	Title	Date
	PLANT MANAGER	4-20-97

**********OFFICIAL USE ONLY**********

DIV. 1 BN. 7 STA. 116 INSP. UNIT A-1-13

CFIRS JURIS. CODE 79 2339

INSPECTOR _____ VERIFIED / /

PACCAR 02197

Granted 1/15/87 Expires 1/15/88	**Fire Department** **City of Los Angeles** **PERMIT**	Reg. No. 55515 Fee Paid $190.00

In accordance with terms of the application on file with the Fire Prevention Bureau, permission is granted to:

Name
Trico Industries Inc.

Mail to
Trico Industries Inc.
19706 South Normandie Ave.
Torrance, California 90502

Permit to: abandon one atmospheric tank(s) as per specifications of the Fire Prevention Bureau and subject to the field inspectors approval at the site.

Location
19706 So. Normandie Ave.
Los Angeles, California

BY ORDER OF CHIEF ENGINEER

By: C. V. Drummond
Fire Marshal

D. Mitigation, Prevention, and Abatement of Hazards:

1. Describe your business' procedures for prevention, mitigation, and abatement of hazards to person, property, or the environment:

ON A REGULAR BASIS MANAGEMENT AND SAFETY PERSONNEL PERFORM PLANT TOURS TO IDENTIFY ANY POSSIBLE SAFETY HAZARDS THAT EXIST, NOTATIONS ARE TAKEN AND CORRECTIONS ARE MADE, TO PROVIDE AS MUCH AS HUMANLY POSSIBLE A HAZARD FREE ENVIRONMENT FOR OUR EMPLOYEES TO WORK IN.

2. Does your business have a private on-site response team? Yes_____ No__xx_____
If yes, what is the method of notification in the event of an incident at your business?

PACCAR 02199

E. Immediate Notification and Evacuation of Your Facility:

OUR MANAGEMENT, FOREMAN, AND LEADMAN PERSONNEL HAVE BEEN INSTRUCTED AS TO THE PROPER METHODS OF NOTIFICATION OF EMERGENCY RESPONSE AGENCIES AND PERSONNEL, AND HOW THE PLANT PREMISES SHOULD BE EVACUATED IN A TIME OF NEED. IT IS THIER DUTY TO SEE THAT NOTIFICATION AND EVACUATION OF OUR FACILITY IS COMPLETED.

PACCAR 02200

SECTION III: EMPLOYEE TRAINING PROGRAM

A. Methods for Safely Handling Hazardous Materials:

PROPER SAFETY EQUIPMENT (GLOVES, APRONS, ARM GUARDS, FACE SHIELDS, ETC.) ARE USED AT ALL TIMES.

B. Procedures for Coordinating Activities with Response Agencies:

MANAGEMENT, FOREMAN AND LEADMAN HAVE BEEN INSTRUCTED AS TO DIRECTIONS NECESSARY TO BE TAKEN TO NOTIFY AND ASSIST RESPONSE AGENCIES.

PACCAR 02201

C. Proper Use of On-Site Safety Equipment by Employees:

EMPLOYEES ARE CONSTANTLY INSTRUCTED AS GIVEN VISUAL DEMONSTRATIONS OF THE PROPER USE AND CARE OF SAFETY EQUIPMENT BY MANAGEMENT AND SAFETY PERSONNEL.

D. Familiarization with the Business Emergency Response Plans and Procedures (Sections II A through II E):

EMPLOYEES ARE VERBALLY INSTRUCTED AND GIVEN VISUAL INSTRUCTIONS AS TO THE EMERGENCY RESPONSE PLANS AND PROCEDURES OF THE PLANT.

PACCAR 02202

E. Provisions for Ensuring Initial and Refresher Training:

ON A REGULAR BASIS PLANT EMPLOYEES, THROUGH MEETINGS THAT PROVIDE INITIAL AND REFRESHER TRAINING, THE EMPLOYEES IN OUR PLANT ARE KEPT ABREAST OF THE EMERGENCY RESPONSE PLANS AND PROCEDURES OF THE PLANT.

SECTION IV: CERTIFICATION

I, Leo Cahill, certify that the above information is accurate to the best of my knowledge. I understand that this information will be used to determine my business' status with regard to the Health and Safety Code Disclosure Requirements and that submission of false information constitutes perjury under the law.

Signature	Title	Date
	PLANT MANAGER	7-6-87

********** OFFICIAL USE ONLY **********

DIV. 1 BN. 7 STA. 116 INSP. UNIT A-1-13

CFIRS JURIS. CODE 79

INSPECTOR _____ VERIFIED / /

1/9/87

PACCAR 02203

TRICO INDUSTRIES, INC.

P.O. Box 4358
19706 South Normandie Avenue
Torrance, California 90510-4358
(213) 516-5000
Telex, 683-1233
Cable: BANDWINC, Torrance

July 6, 1987

County of Los Angeles Fire Department
P.O. Box 3009
Terminal Annex
Los Angeles, California 90051

To Whom It May Concern:

Please be advised that the address, 1206 West 196th Street, Torrance, California, is our shipping dock address. The same forms were filled out for the entire facility under the address, 19706 South Normandie Avenue, Torrance, California.

If there are any further questions regarding this address matter, please do not hesitate to contact me.

Sincerely,

TRICO INDUSTRIES

Leo P. Cahill
Plant Manager

LPC/kb

COUNTY OF LOS ANGELES

FIRE DEPARTMENT

POST OFFICE BOX 3009, TERMINAL ANNEX
LOS ANGELES, CALIFORNIA 90051

(213) 267-2401

JOHN W ENGLUND
FIRE CHIEF
FORESTER & FIRE WARDEN

June 29, 1987

TRICO INDUSTRIES
1206 W. 196TH ST.
TORRANCE CA 90502

2042 19
1 7 116 AREA 1 13

Dear Business Owner:

SUBJECT: NOTICE OF NON-COMPLIANCE WITH HAZARDOUS MATERIALS DISCLOSURE

On or about April 1, 1987, the County of Los Angeles Fire Department provided your business a Hazardous Materials Business Plan to complete and return by April 21, 1987. As of the date of this notice, this Department has not received the required information from you.

The California Health and Safety Code, Division 20, Chapter 6.95, commencing with Section 25500 and County Code, Chapter 2.20 of Division 2, of Title 2, Sections 2.20.100 through 2.20.140 require every business which handles hazardous materials as defined therein to comply with the reporting requirements set forth by the statutes and County Code.

State law provides for penalties not to exceed more than $2,000.00 for each day of violation or $5,000.00 a day for each day violation occurs after reasonable notice of violation. The County Code provides for a fine not to exceed more than $500.00 and/or imprisonment for each day of violation.

PACCAR 02205

PACCAR Inc

September 27, 1993

John R. Carver
The Seeley Company
2050 West 190th Street, Suite 101
Torrance, California 90504-6203

Re: Trico Torrance Property

Dear John:

Enclosed is a full size reproduction of Dalcin Cummins Associates 5/25/89 ALTA Survey of the above referenced property for use in your efforts to sell or lease this property. Also enclosed are 11 x 17 reproductions of the survey to use as an exhibit (plot plan) for the lease to Mighty Enterprises and other future leases.

Very truly yours,

Barbara

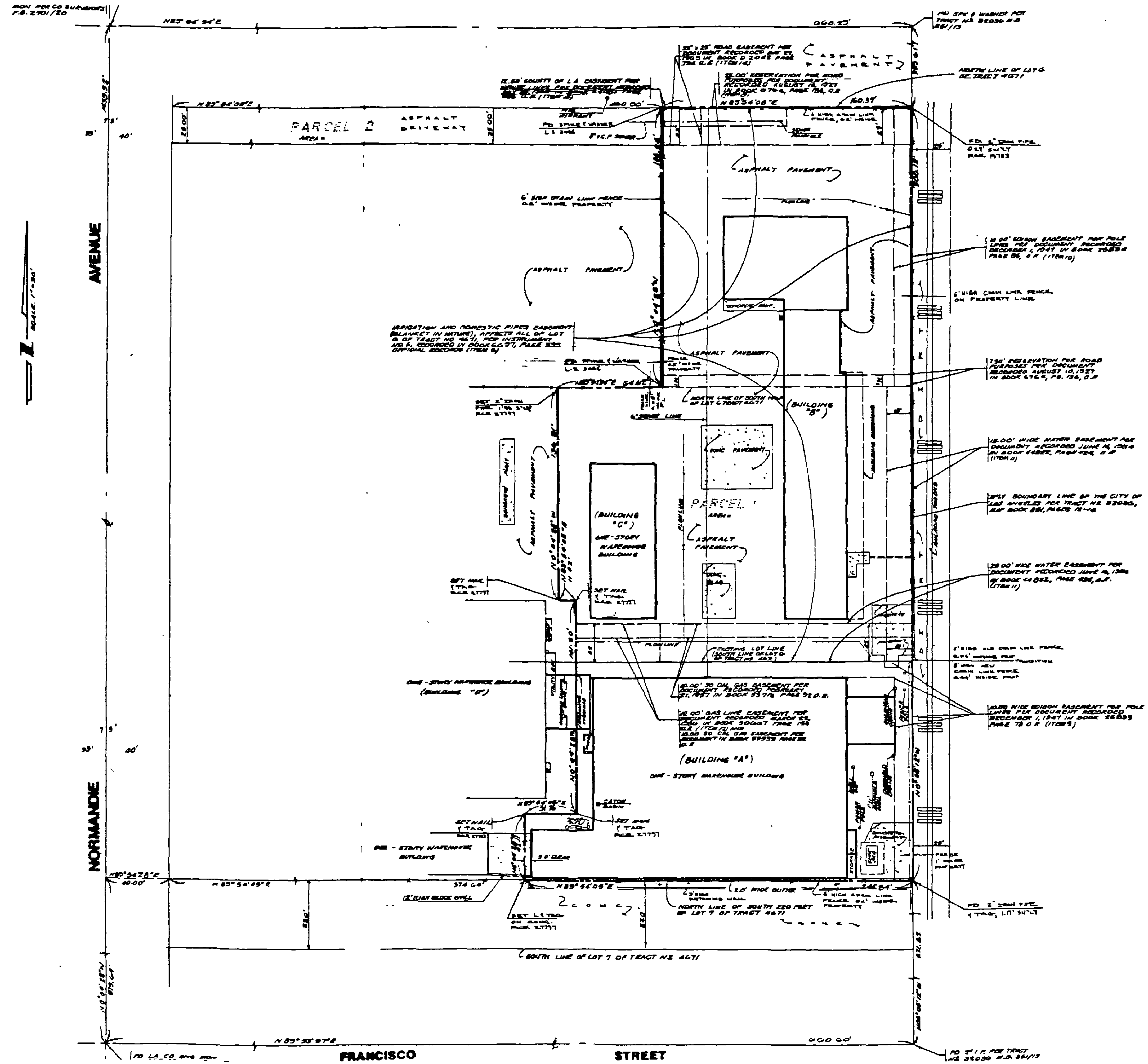
Barbara J. McHarg
Real Property Assistant

BJM:

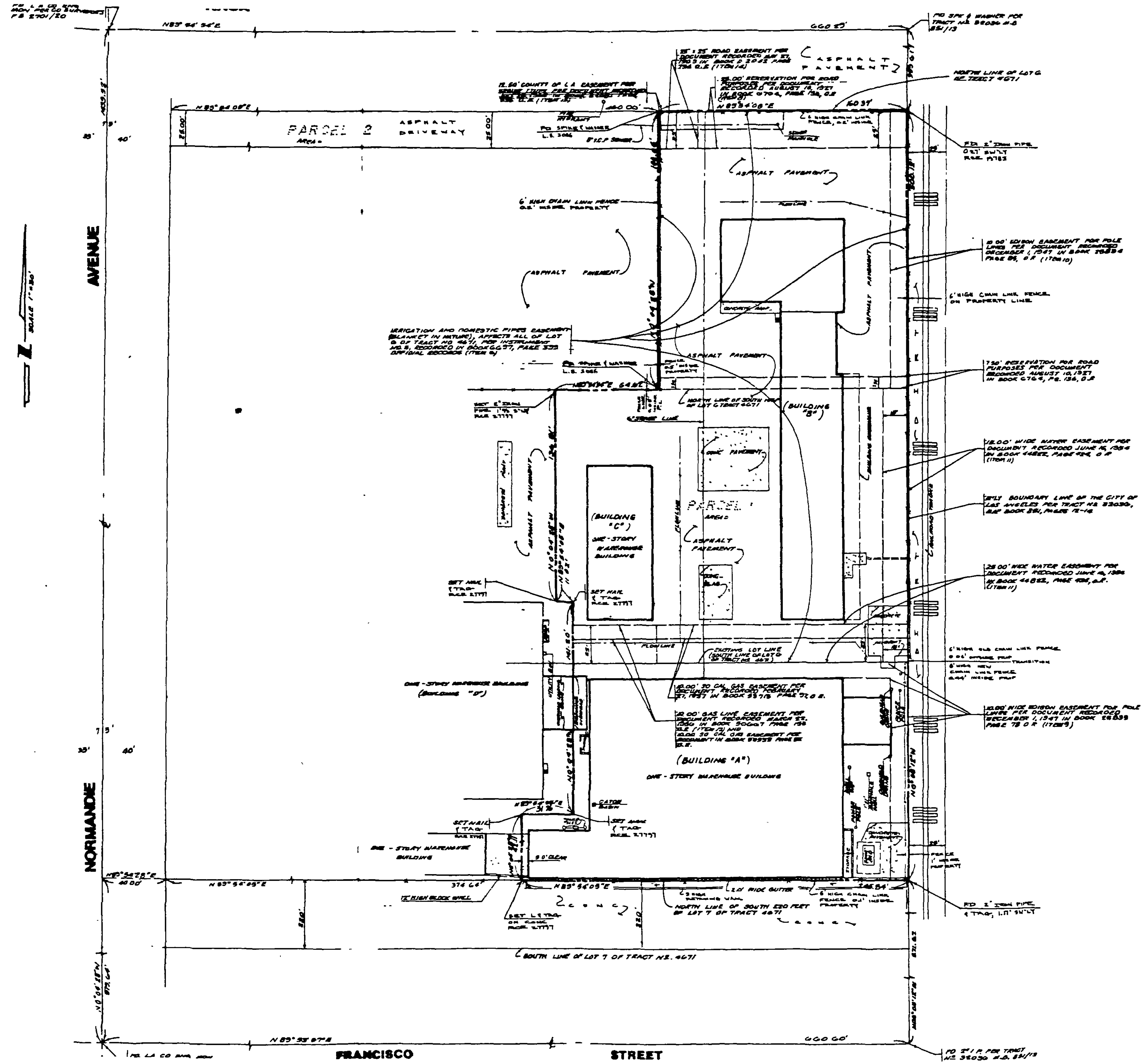
Enclosures

PACCAR 02206

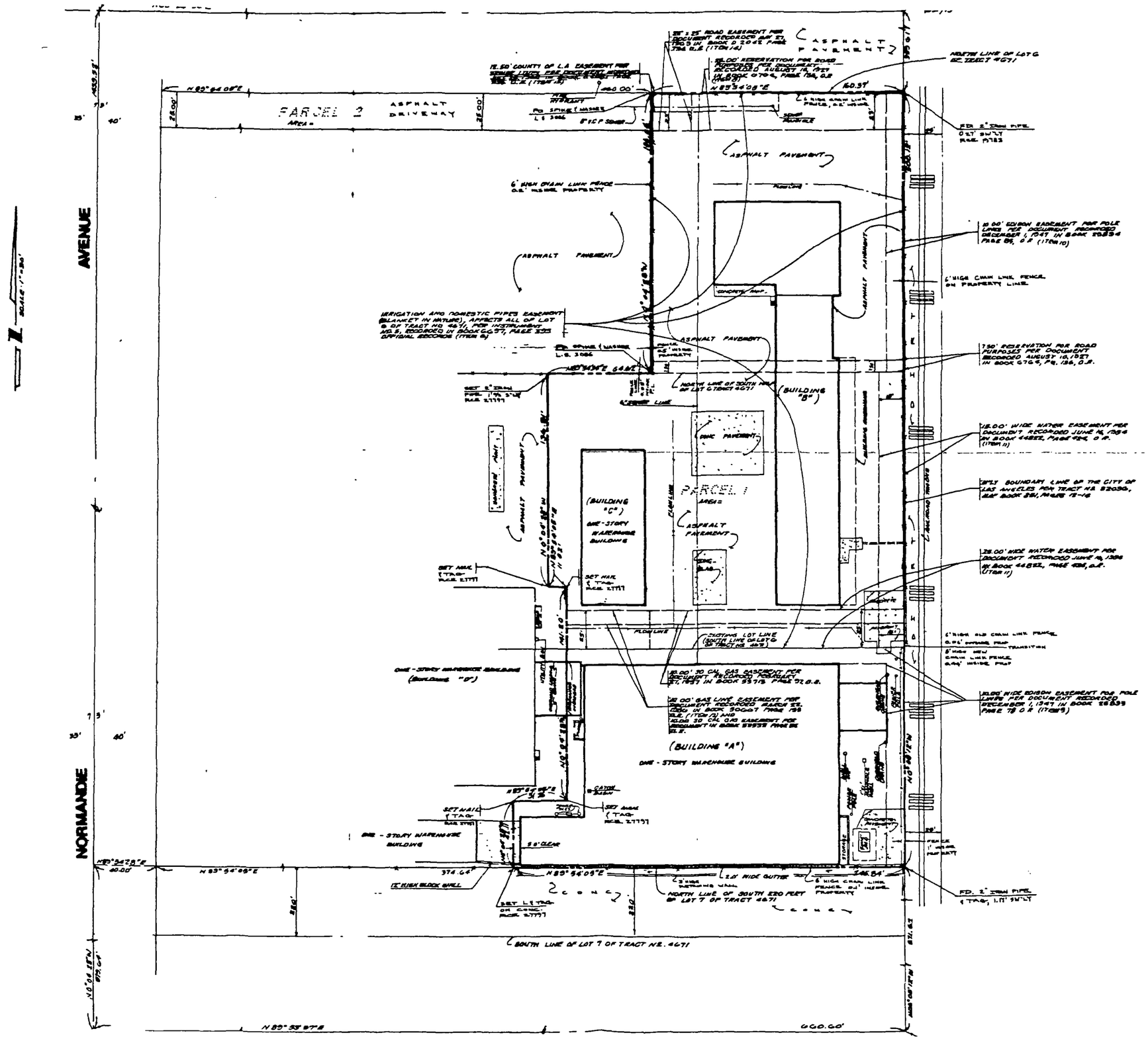
P O Box 1518 Bellevue, Washington 98009 Telephone (206) 455-7400
PACCAR Building 777-106th Avenue N E Bellevue, Washington 98004 Facsimile 206-453-4900



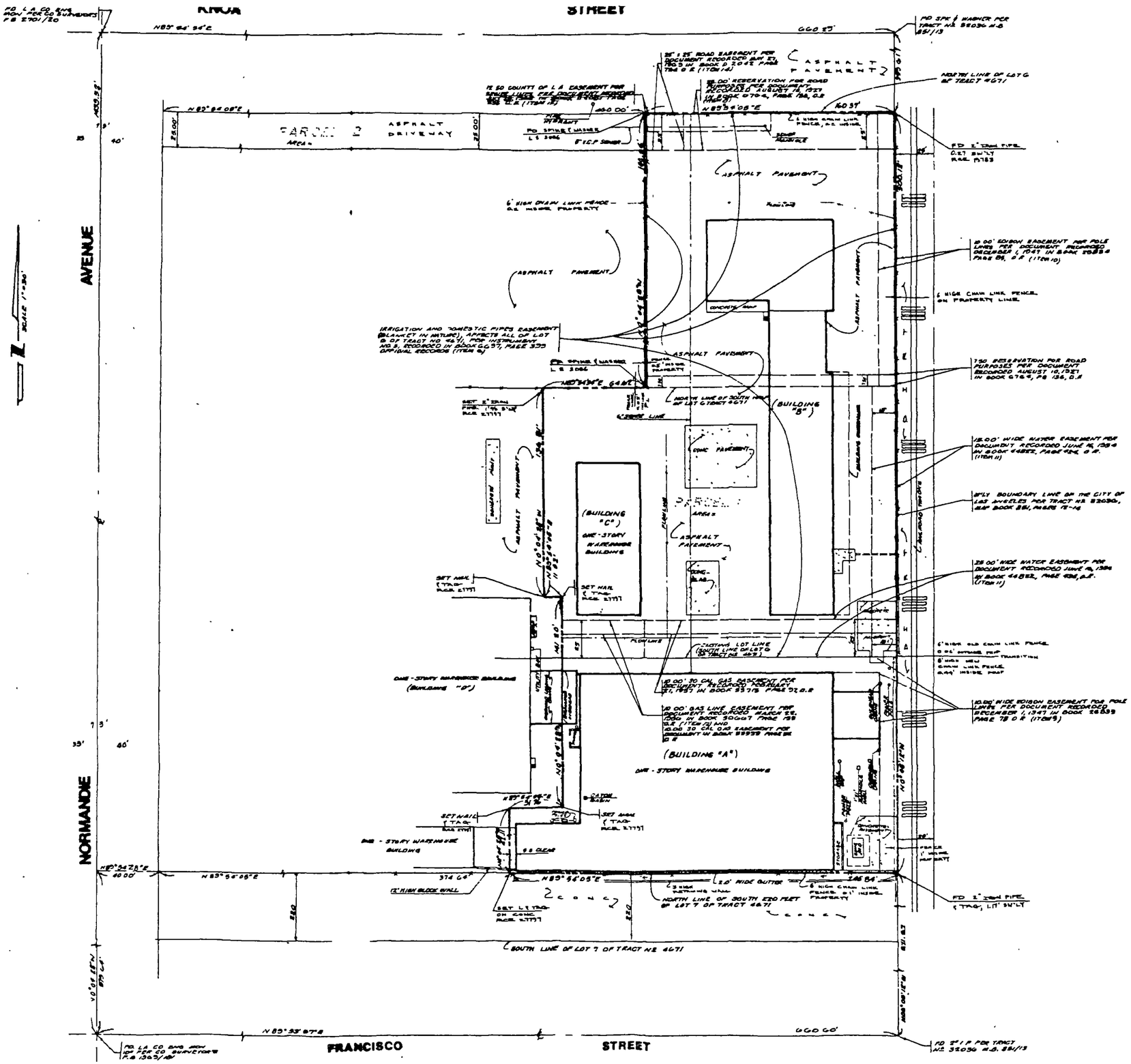
PACCAR 02207



NORMANDIE
AVENUE
FRANCISCO
STREET
PARCEL 2
PARCEL 1
(BUILDING "A")
ONE - STORY WAREHOUSE BUILDING
(BUILDING "C")
ONE - STORY WAREHOUSE BUILDING
(BUILDING "B")
ASPHALT PAVEMENT



PACCAR 02209



PACCAR 02210

PACCAR Inc

September 27, 1993

John R. Carver
The Seeley Company
2050 West 190th Street, Suite 101
Torrance, California 90504-6203

Re: Trico Torrance Property

Dear John:

Enclosed is a full size reproduction of Dalcin Cummins Associates 5/25/89 ALTA Survey of the above referenced property for use in your efforts to sell or lease this property. Also enclosed are 11 x 17 reproductions of the survey to use as an exhibit (plot plan) for the lease to Mighty Enterprises and other future leases.

Very truly yours,

Barbara

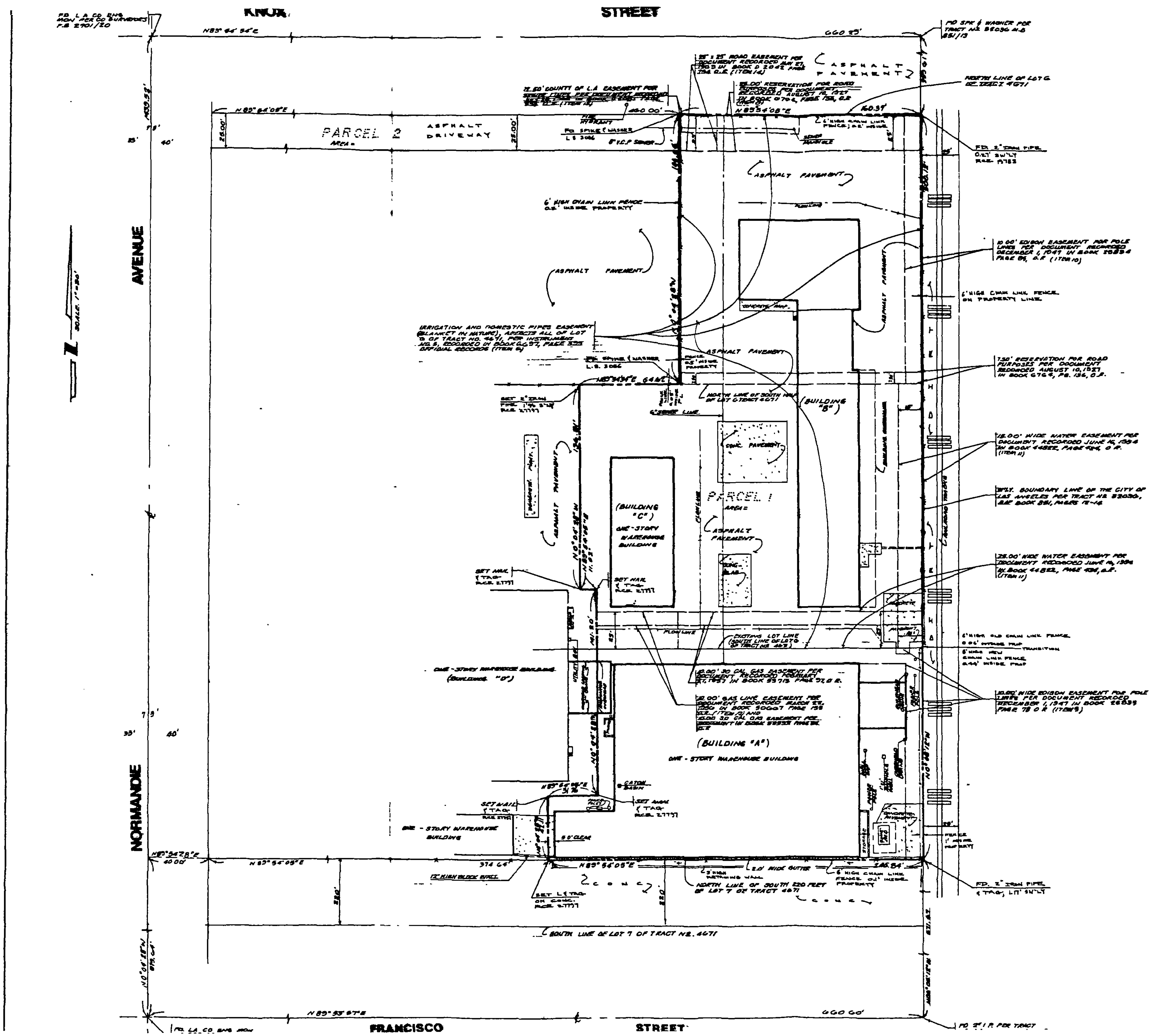
Barbara J. McHarg
Real Property Assistant

BJM:

Enclosures

PACCAR 02211

P O Box 1518 Bellevue, Washington 98009 Telephone (206) 455-7400
PACCAR Building 777-106th Avenue N E Bellevue, Washington 98004 Facsimile 206-453-4900



PACCAR 02212

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

PACCAR 02213

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

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

Parent/Subsidiary
Subsection
Number

DATE: 7/12/99

TO: CORPORATE SECRETARY

FROM: R McHarg (Individual) / Corporate Real Property (Department)

SUBJECT: VALUABLE DOCUMENTS FILING

Please file the following document(s) in the corporate vault:

Title of Document(s): Certificates of Proof for Registered Emission Reduction.

Alternate Title(s): Credit No. AQ001503, Facility No. 095221
(All names by which you might refer to the document when requesting retrieval.)

Date of Document(s): 12/4/95

Expiration Date: Indefinite

Document Pertains to:
- [X] PACCAR Inc
- [ ] Division:
- [X] Subsidiary: Trico? Torrance

Date Out	Name	Date In

DATE:

TO:

FROM: CORPORATE SECRETARY

ORIGINAL

FIRST AMERICAN TITLE COMPANY OF LA 97 1891551
"SUBDIVISION"

WHEN RECORDED MAIL TO

Name: PACCAR INC.
Street Address: P.O. BOX 1518
City & State: BELLEVUE, WASHINGTON 98009
ATTN: PHILLIP GLADFELTER

RECORDED/FILED IN OFFICIAL RECORDS
RECORDER'S OFFICE
LOS ANGELES COUNTY
CALIFORNIA
DEC 02 1997 AT 8 A.M.

FEE $13

SPACE ABOVE THIS LINE FOR RECORDER'S USE

3

7351-35-27

Grant Deed

NCPF Code 19 $ 9.00 (80)

ALL | PTN

"The grantors and the grantees in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property, R&T 11923(d)."

The undersigned grantor(s) declare (s)
Documentary transfer tax is $ -0-
( ) computed on full value of property conveyed, or
( ) computed on full value less value of liens and encumbrances remaining at time of sale.
( ) Unincorporated area (X) City of Torrance,
( ) Realty not sold

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, the undersigned, Trico Industries, Inc., a California corporation, wholly owned subsidiary of grantee herein,

hereby GRANT(S) xx and conveys to PACCAR INC, a Delaware corporation, all right, title, interest and estate of the undersigned in and to

that property in Los Angeles County, State of California, described as set forth in Exhibit A attached hereto and incorporated herein

SUBJECT TO all current and delinquent taxes and assessments, covenants, conditions, restrictions, reservations, easements, rights and rights of way, surface and subsurface conditions of the soil and all improvements thereto and to all matters of record.

Mail tax statements to PACCAR INC, P. O. Box 1518, Bellevue, WA 98009

Date November 14, 1997

TRICO INDUSTRIES, INC.

By

Attest: Chairman

Assistant Secretary

STATE OF ~~CALIFORNIA~~ WASHINGTON
COUNTY OF KING } SS

On _____ before me, the undersigned, a Notary Public in and for said State, personally appeared, _____, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person ____ whose name ____ subscribed to the within instrument and acknowledged that _____ executed the same Witness my hand and official seal

Signature _____

Name (Typed or Printed)

LTC-116

MAIL TAX STATEMENTS AS DIRECTED ABOVE

9722930-2

PACCAR 02216

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.

97 1891551

EXHIBIT A

STOCK PURCHASE AGREEMENT

This Stock Purchase Agreement ("Agreement"), dated as of October 9, 1997, is by and between EVI, Inc., a Delaware corporation ("Purchaser"), and PACCAR Inc, a Delaware corporation ("Seller").

Seller is interested in selling and Purchaser is interested in purchasing all of the issued and outstanding shares of stock of Trico Industries, Inc.

NOW, THEREFORE, Seller and Purchaser agree as follows:

ARTICLE I
DEFINITIONS

As used herein, the following terms shall have the following meanings:

1.1 Assumed Liabilities. The term "Assumed Liabilities" means those liabilities described in Section 2.2 hereof.

1.2 Benefit Plan. The term "Benefit Plan" means any collective bargaining agreement or any bonus, pension, profit sharing, deferred compensation, incentive compensation, stock ownership, stock purchase, stock option, phantom stock, retirement, vacation, severance, disability, death benefit, hospitalization, medical dependent care, cafeteria, employee assistance, scholarship program or other plan, arrangement or understanding (whether or not legally binding) providing benefits to any current or former employee or director of the Company or a Subsidiary of the Company, except for the Excluded Assets and Liabilities.

1.3 BMW. The term "BMW" means BMW Monarch (Lloydminster) Ltd.

1.4 Closing Date. The "Closing Date" means October 31, 1997. If the expiration of the waiting period under the Hart-Scott-Rodino Anti-Trust Improvements Act of 1976, as amended ("HSR Act"), occurs after October 31, then the Closing Date shall be the fifth day after the date on which the waiting period expires unless Seller or Purchaser has terminated this Agreement under Section 10.1. The Closing Date may be changed by mutual agreement of the parties.

1.5 Code. The term "Code" means the Internal Revenue Code of 1986, as amended.

1.6 Company. The term "Company" shall mean Trico Industries, Inc.

1.7 Company Assets. The term "Company Assets" means all of the Company's and Kobe's properties, assets, rights, obligations and liabilities, whether tangible or intangible, real or personal, contingent or otherwise, as of the Closing Date (except the Excluded Assets and Liabilities) and which are used or have arisen in connection with the business of the Company, including without limitation, the following:

1.7.1 All real property, plants, buildings, cranes and other improvements, and the interests in real property under any option or lease ("Real Property"), which are further identified on Schedule 1.7.1 hereto, except for the Excluded Assets and Liabilities;

1.7.2 All machinery, equipment (including without limitation, all transportation, laboratory, testing, and office equipment), fixtures, trade fixtures, tools, jigs, dies, furniture, inventory racks and other tangible property of any kind, except for the Excluded Assets and Liabilities;

1.7.3 All raw materials, work-in-process, finished goods, inventories of parts, and other inventories of the Company, including inventories consigned with dealers or customers, if any;

1.7.4 All office, production, and other miscellaneous supplies of the Company;

1.7.5 All rights, liabilities and obligations existing under leases of personal property (both as lessor and as lessee), contracts, options, licenses, permits, distribution agreements, domestic and foreign dealer agreements, sales agreements, purchase agreements (including customer purchase orders), vehicle lease agreements, parts support agreements, product availability commitments, performance commitments, and all other agreements and business arrangements entered into in the normal course of business ("Contracts") which are further described on Schedule 1.7.5 hereto by category, with each contract with an outstanding obligation in excess of $50,000 identified separately;

1.7.6 All patents and patent applications, registered and unregistered trademarks, service marks, trade names and similar rights to names, marks and slogans, common law and registered copyrights which are further identified on Schedule 1.7.6 hereto, and all applications for any of the foregoing, together with all rights to use all of the foregoing forever, and all goodwill associated with any of the foregoing;

1.7.7 All inventions, discoveries, improvements, processes, methods, designs, formulae (secret or otherwise), data, engineering, technical and shop drawings, specifications, trade secrets, confidential information, know-how and ideas, whether patentable or not, shop rights, licenses and other similar rights and all drawings, records or other indicia, however evidenced, of the foregoing, together with all rights to use all of the foregoing and any goodwill associated with any of the foregoing;

1.7.8 All computer software resident on computers included in the Company Assets and used solely for the business of the Company, except the Excluded Assets and Liabilities, provided that Company has the legal right to continue using such software after a change in ownership of Company;

1.7.9 All bank and trust accounts and accounts receivable of the Company, except the Excluded Assets and Liabilities;

1.7.10 All deposits and prepayments or prepaid expenses reflected on the Statement of Net Assets, except the Excluded Assets and Liabilities;

1.7.11 All shares of stock in subsidiaries and other corporations owned by Company and described in Schedule 1.7.11, except for the Excluded Assets and Liabilities, (the "Subsidiaries");

1.7.12 All of the Company's records pertaining to products, customers, suppliers or personnel and all other files and business records of every kind, including financial records;

1.7.13 All advertising materials and all other printed or written materials;

1.7.14 All governmental and other licenses, permits, franchises, approvals and certificates, to the extent transferable;

1.7.15 All goodwill, including that arising from business acquisitions, and all other intangible properties; and

1.7.16 All other assets and liabilities of the Company not referred to in 1.7.1 to 1.7.15 above which are reflected or noted on the Statement of Net Assets or have arisen in the ordinary course of the business of the Company, except for the Excluded Assets and Liabilities.

1.8 Company Stock. The term "Company Stock" means all of the issued and outstanding shares of stock of the Company.

1.9 Damages. The term "Damages" means any and all liabilities, losses, damages, demands, assessments, claims, awards, judgments, penalties, settlements, fines, interest, costs and expenses (including, without limitation, reasonable fees and expenses of attorneys, consultants and other professionals incurred in connection with investigating and defending any claims or causes of action), but excluding incidental, consequential (including without limitation loss of profits or loss of business opportunities), punitive or exemplary damages, other than those imposed in connection with a third party claim.

1.10 Employees. The term "Employees" means all of the employees of the Company and Kobe on or before the Closing Date.

1.11 Encumbrance. The term "Encumbrance" means any security interest, mortgage, pledge, trust, claim, lien, charge, option, defect, restriction, encumbrance or other right or interest of any third party of any nature whatsoever.

1.12 Environmental Laws. The term "Environmental Laws" means any and all laws, statutes, ordinances, rules, regulations, orders, or determinations of any Governmental Entity pertaining to health, safety or the environment applicable to (i) the Company's business or operations, (ii) the Company Assets, or (iii) the disposal of any hazardous substance by the Company, including, but not limited to, the Clean Air Act, as amended, the Comprehensive Environmental, Response, Compensation, and Liability Act of 1980 ("CERCLA"), as amended, the Federal Water Pollution Control Act, as amended, the Resource Conservation and Recovery Act of 1976, as amended ("RCRA"), the Safe Drinking Water Act, as amended, the Toxic Substances Drinking Water Act, as amended, and the Superfund Amendments and Reauthorization Act of 1986, as amended. The term "hazardous substance" has the meaning specified in CERCLA, and the term "disposal" (or "disposed") has the meaning specified in RCRA; provided that, to the extent the laws of the state in which any Company Assets are located establish a meaning for "hazardous substance" or "disposal" which is broader than that specified in CERCLA or RCRA, such broader meaning shall apply with respect to such assets in such state.

1.13 Excluded Assets and Liabilities. The term "Excluded Assets and Liabilities" means the following assets and any related liabilities and obligations of the Company as of the Closing Date (whether liquidated or unliquidated, known or unknown, material or immaterial, fixed or contingent), which are not included in the Company Assets and will not be acquired by Purchaser hereunder, all of which are described below:

1.13.1 The real property listed in Schedule 1.13.1 attached hereto;

1.13.2 All computer software licensed under a master agreement with Seller or any affiliate of Seller (other than the Company) or resident on any computer not owned or leased by the Company, even if it is also used by the Company;

1.13.3 All bank and trust accounts listed on Schedule 1.13.3(a) and all cash in the bank accounts listed in Schedule 1.13.3(b);

1.13.4 All insurance recoveries for environmental claims pending prior to the Closing concerning insurance policies issued for years 1975 through 1988;

1.13.5 All intercompany receivables and payables between Seller and Company or Kobe;

1.13.6 Taxes pertaining to or attributable to the Company or any of its subsidiaries with respect to any and all taxable periods or portions thereof ending on or before the Closing Date, but only to the extent such Taxes arise from or relate to the inclusion of the Company or such subsidiaries in a Tax Return of the Seller;

1.13.7 All letters of credit ("LC's") established by Seller or relying on the credit of Seller for the benefit of Company, as listed on Schedule 1.13.7;

1.13.8 Any amounts owing to any Employees under any deferred compensation plan maintained by Seller for any period prior to the Closing and which is not transferred to Purchaser under the terms of this Agreement;

1.13.9 The shares of stock in any subsidiaries of Company listed on Schedule 1.13.9, which will be sold or assigned separately prior to the Closing, (the "Excluded Subsidiaries"), any proceeds from such sale or assignment, and all documents, records and other information of any kind or nature concerning the business and operations of the Excluded Subsidiaries;

1.13.10 All Seller proprietary items including without limitation internal telephone directories, Seller trademarked items, Seller promotional materials, compliance and policy materials, and similar items;

1.13.11 The sponsorship of and all assets and liabilities related to the Company and Seller Benefit Plans listed on Schedule 1.13.11;

1.13.12 All machinery, equipment, tooling, jigs, and fixtures used solely in connection with the manufacture for Seller by Company of the products and components listed on Schedule 1.13.12 ("Seller's Components"), and all designs, specifications, copyrights and trademarks of Seller and any other intangibles related solely to Seller's Components, but excluding any rights to the name "Trico" and any derivation thereof;

1.13.13 Any deferred intercompany gain as defined in Treasury Regulation Section 1.1502-13;

1.13.14 All product liability, warranty and other claims, actions, litigation or other proceedings listed on Schedule 1.13.14, including any cross-claims, counter-claims, third party claims and claims for indemnity or contribution related to the subject matter of such listed proceeding; and

1.13.15 Any claim, obligation, liability or action (i) related to the disposal of hazardous substances by the Company, Kobe or any of their respective predecessors or subsidiaries prior to Closing, (ii) related to any remediation, cleanup or other legal obligation or obligation for contribution related to the ownership, use or lease of any property, except for the Real Property, prior to the Closing by the Company, Kobe or any

of their respective predecessors or subsidiaries, (iii) related to the exposure of a third party (other than a present or former employee of the Company, Kobe or any of their respective predecessors or subsidiaries) to a hazardous substance prior to the Closing as a result of an action or omission by the Company, Kobe or any of their respective predecessors or subsidiaries, and (iv) related to the exposure of a present or former employee of the Company, Kobe or any of their respective predecessors or subsidiaries to a hazardous substance in the workplace prior to the Closing as a result of an action or omission by the Company, Kobe or any of their respective predecessors or subsidiaries, but only to the extent that such injury or illness is not covered by the applicable worker's compensation laws.

1.14 Final Statement of Net Assets. The term "Final Statement of Net Assets" means the final statement of net assets of the Company, prepared as set forth in Section 3.3, as of the later of October 31, 1997 or the end of the calendar month preceding the Closing Date. The Final Statement of Net Assets shall include reserve amounts that have been determined in accordance with GAAP and calculated in a manner consistent with those shown on Schedule 1.20(b).

1.15 GAAP. The term "GAAP" means United States generally accepted accounting principles as they apply to a statement of net assets for a subsidiary with exceptions consistent with those used for the preparation of the Statement of Net Assets. GAAP does not include footnote disclosures required by generally accepted accounting principles.

1.16 Governmental Entity. The term "Governmental Entity" means the United States of America and any state, county, city, municipality and any subdivision thereof, and any court, administrative or regulatory agency, commission, department or other governmental authority or instrumentality.

1.17 Kobe. The term "Kobe" means Kobe International Ltd.

1.18 Material Adverse Effect. The term "Material Adverse Effect" means an adverse change in the financial condition, business or operations of the Company or Kobe which, when taken together with all other matters having a similar effect, is materially adverse, or will result in a change which is materially adverse, to the Company and Kobe, taken as a whole.

1.19 Net Assets. The term "Net Assets" means, with reference to the Statement of Net Assets and Final Statement of Net Assets, the difference between total assets and total liabilities (including deferred income tax liabilities and capital lease obligations) of the Company and Kobe on a consolidated basis determined in accordance with GAAP; provided, however, there shall be excluded from the calculation of Net Assets the Excluded Assets and Liabilities, and there shall be excluded from the calculation of Net Assets for the Final Statement of Net Assets any increase or decrease in the items listed on Schedule 1.19 from the amounts shown for such items on the Statement of Net Assets or Schedule 1.20(b).

1.20 Statement of Net Assets. The term "Statement of Net Assets" means the adjusted statement of net assets of the Company as of August 31, 1997, which is attached as Schedule 1.20(a) hereto. Adjustments to the Statement of Net Assets for Excluded Assets and Liabilities and corporate reserves are also described in Schedule 1.20(a). The Statement of Net Assets also includes the reserves described on Schedule 1.20(b).

1.21 Taxes. The term "Taxes" means all federal, state, local, foreign and other taxes, assessments or duties, including, but not limited to, all income, gross receipts, ad valorem, sales, use, franchise, transfer, profits, value added, withholding, payroll, employment, excise, estimated severance, property, windfall profits and other taxes, assessments or duties of any kind whatsoever, imposed or collected by any Governmental Entity or pursuant to any governmental requirement, together with any interest, penalty, addition to tax, fine or other additional amounts imposed thereon or related thereto, and the term "Tax" means any one of the foregoing items.

1.22 Tax Returns. The term "Tax Returns" means all returns (including information returns), declarations, reports, statements and other documents of, relating to, or required to be filed in respect of, any and all Taxes based in whole or in part on net income (including but not limited to the Texas franchise tax), and the term "Tax Return" shall mean any one of the foregoing Tax Returns.

ARTICLE II
PURCHASE OF COMPANY STOCK AND ASSUMPTION OF LIABILITIES

2.1 Purchase of Company Stock. Upon the terms and subject to the conditions contained herein, Seller will sell, transfer, assign and deliver to Purchaser and Purchaser will acquire the Company Stock, free and clear of all Encumbrances, effective as of the end of business on the Closing Date.

2.2 Obligations and Liabilities Assumed by Company. Purchaser shall cause the Company to assume, effective as of the close of business on the Closing Date, all of the obligations and liabilities of Seller with respect to the Company, the Company Assets and the Company's business except for the Excluded Assets and Liabilities (the "Assumed Liabilities"), including without limitation:

2.2.1 all liabilities and obligations accruing or becoming due or payable to the Employees after the Closing Date (even if the claim arose or relates to a period prior to the Closing Date) for compensation or other benefits related to the employment or termination of employment of such Employees, including without limitation, liabilities and obligations, if any, for worker's compensation, unemployment compensation or termination of employment benefits, or under any of Seller's or Company's employee health and benefit plans, pension and supplemental pension plans, annuities, or employment contracts; and

2.2.2 all guarantees, loans, commitments, contracts and other obligations made or entered into by Company or Seller in connection with the business and operations of Company.

Purchaser shall indemnify, defend and hold Seller harmless (according to the provisions of Section 9.8 hereof) from all Damages, (whether or not arising out of third-party claims) arising from or otherwise related to any of the Assumed Liabilities.

2.3 Obligations and Liabilities Assumed by Seller. Seller shall assume, effective as of the close of business on the Closing Date, all Excluded Assets and Liabilities. Seller shall indemnify, defend and hold the Company and the Purchaser harmless (according to the provisions of Section 9.8 hereof) from all Damages, (whether or not arising out of third-party claims) arising from or otherwise related to any of the Excluded Assets and Liabilities.

2.4 Purchase Price and Adjustment. Upon the terms and subject to the conditions contained herein, the purchase price for the sale, transfer, assignment, conveyance and delivery of the Company Stock ("Purchase Price") shall be One Hundred and Five Million Dollars ($105,000,000.00). There shall be an adjustment to the Purchase Price equal to the amount, if any, by which the absolute value of the sum of items (i) and (ii) below exceeds $1,000,000. If the sum is positive, Purchaser shall pay the adjustment to Seller; if it is negative, Seller shall pay the adjustment to Purchaser.

(i) The amount remaining after the value of the "Net Assets" shown on the Statement of Net Assets is subtracted from the value of the "Net Assets" shown on the Final Statement of Net Assets; plus

(ii) Two Hundred Twenty-Five Thousand U.S. Dollars ($225,000) per month (with a prorata portion for any part of a month) from August 31, 1997 to the Closing Date, as the agreed adjustment for Seller's share of the earnings of BMW during this period.

Payment of any amount due in adjustment of the Purchase Price hereunder shall be paid by wire transfer of immediately available funds to the account designated by Seller or Purchaser, as the case may be. Any adjustment to the Purchase Price shall be received within five days after the acceptance of the Final Statement of Net Assets pursuant to Section 3.3.

ARTICLE III
CLOSING

3.1 Closing. The Closing of the transactions contemplated herein (the "Closing") shall be held on the Closing Date at Seller's corporate offices in Bellevue, Washington.

4.12 Patents, Trademarks, Etc. To the best of Seller's knowledge and belief, Schedule 1.7.6 hereto contains a true and complete list of all of the patents, trademarks, trade names, service marks and copyrights, and applications therefor, which are used in connection with the business, products or processes of the Company. Except as otherwise disclosed in Schedule 4.12 hereto, and to the best of Seller's knowledge or belief, Company owns, or is licensed or otherwise has the right to use, all patents, trademarks, trade names, service marks, copyrights, technology, know-how, processes, methods and designs used in or necessary for the conduct of the business of the Company as presently being conducted. The consummation of the transactions contemplated by this Agreement will not result in the loss of any licenses or rights to use any patents, trademarks, trade names, service marks, copy rights, technology, know-how or processes and will not conflict with, or constitute a breach, violation or termination of, any agreement or understanding, whether written or otherwise, relating to any licenses or rights to use any patents, trademarks, trade names, service marks, copy rights, technology, know-how or processes necessary for the conduct of the business by the Company as currently conducted.

4.13 Accounts Receivable. The accounts receivable and other receivables of the Company represent bona fide indebtedness arising out of the ordinary course of business, and to the best of Seller's knowledge and belief, except as otherwise disclosed in Schedule 4.13 hereto, all such receivables will be collectable according to their terms and at the book amounts thereof, less any reserve for bad debts shown on the Statement of Net Assets.

4.14 Litigation and Proceedings. To the best of Seller's knowledge and belief, Schedule 1.13.14 hereto contains a list and brief description of all litigation relating to product liability, warranty and other claims, actions, or other proceedings pending, threatened against or otherwise affecting the Company or Kobe and which involve any claim for injunctive relief or for damages in excess of $10,000.

4.15 Licenses, Permits and Authorizations. Except as otherwise disclosed in Schedule 4.15 hereto, the Company has obtained all approvals, authorizations, consents, licenses, franchises, orders and other permits and has made all filings with any Governmental Entity which are required for the conduct of the business of the Company as presently being conducted, except those where the failure to have any such approval, authorization, consent, license, franchise, order or permit would not have a Material Adverse Effect.

4.16 Compliance with Law. Except as otherwise disclosed in Schedule 4.16 hereto, the Company is in compliance in all material respects (i.e., where noncompliance would have a Material Adverse Effect) with all applicable statutes, rules, regulations, ordinances, codes, orders, licenses, franchises, permits, authorizations and concessions, as such apply to the Company.

4.17 Environmental Condition.

4.17.1 Except as otherwise disclosed in Schedule 4.17 hereto, on the Closing Date there is and will be no material contamination of the soil and groundwater of the

Schedule 1.13.1

Excluded Real Property

1. 21, 43, 49 & 57 Holley Avenue, Bradford, PA 16701
2. 15707 South Main Street, Gardena, CA 90247
3. 10702 Painter Avenue, Santa Fe Springs, CA 90670
4. 1206 West 196th Street, Torrance, CA 90502
5. 3040 East Slauson Avenue, Huntington Park, CA 90255
6. 1250 North Olive Street, Ventura, CA 93001
7. 3212 & 3218 Kermit Highway, Odessa, TX 79764

Schedule 1.13.12

Seller's Components

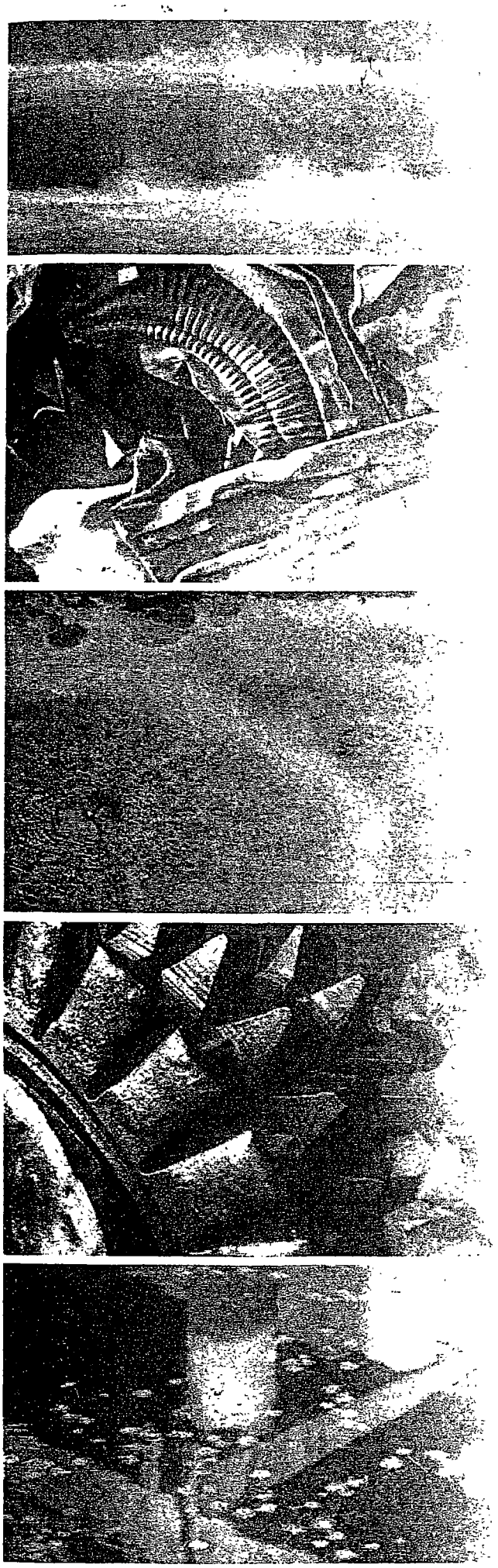
Stabilizer Bars and any related components for Kenworth proprietary suspensions.

Schedule 1.13.12

Seller's Components

Stabilizer Bars and any related components for Kenworth proprietary suspensions.

RESPONSE #27



FSB Copy

Work Plan For Excavation
near BL-06
Former Trico Facility
Torrance, California

Prepared for:

PACCAR
P.O.Box 1518
Bellevue, Washington 98009

Prepared by:

Hart Crowser, Inc.
301 E. Ocean Blvd.
Suite 1950
Long Beach, California

April 21, 2004

Project No. 16169

HARTCROWSER
Delivering smarter solutions

PACCAR 04165

Work Plan For Excavation
Near BL-06
Former Trico Facility
Torrance, California

Prepared for

PACCAR

April 21, 2004

16169

Prepared by

Hart Crowser, Inc.

R.S. Limaye

Ravi Limaye, P.E., R.E.A.

Senior Associate Engineer

Ronald Halpern, R.G. 6645

Associate Geologist

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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 and in April 2004 per requests 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 remove soil that may be impacted by solvents near boring BL-06, obtain additional data on soil conditions at the site, with the goal of obtaining RWQCB closure for the soil. Specifically the work will include:

- Removal and disposal of approximately 65 tons of soil that may be impacted by solvents at the location of boring BL-06 (an area of approximately 10 feet wide by 10 feet long and to a depth of approximately 12 feet);
- 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 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.

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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.

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

Soil samples collected and analyzed from boring BL-06 at 10 feet bgs indicated elevated levels of a range of chemicals. Chemicals detected included; acetone, 2-butanone, butylbenzene, and sec-butylbenzene, isopropyl toluene, isopropyl benzene, ethyl benzene and naphthalene, and 1,2,4–trimethylbenzene.

The highest PCE concentration of 29,000 µg/kg was detected in boring BL-6 at 10 feet bgs. TCE was also detected at 1500 µg/kg.

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 samples.

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 for 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.

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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 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.

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
Addressed by April 2004 Borings: BL-25

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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.

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 that 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.

PACCAR 04172

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, Underground Utility Search, Permitting and Notifications;
- Task 2 - Soil Excavation and Removal;
- Task 3 – Laboratory Analyses;
- Task 4 – Preparation of Soil Removal Report; and
- Task 5 – Project Management

These tasks are described in more detail in the following sections:

Task 1 - Health and Safety Plan, Underground Utility Search, Permitting and Notifications

Hart Crowser will prepare a Health and Safety Plan (HSP). Hart Crowser personnel will conduct daily tailgate health and safety meetings. The HSP is designed primarily to minimize exposure of personnel of Hart Crowser and its subcontractors to potentially hazardous materials. The HSP will describe the properties of contaminants that may be encountered, personal protective equipment, working area monitoring, and contingencies in the event of an emergency. The principal subcontractor conducting the impacted soil removal will provide their own health and safety plan for site hazards not related to contacting hazardous materials.

Hart Crowser will subcontract a private locating service to identify on-site underground lines and utilities near the proposed excavation and to determine if additional unknown USTs are present in the area. 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 excavation from the local agency. PACCAR, the present site supervisor, and regulatory agencies will be notified as required prior to initiating the excavation program at the Site.

Task 2 - Soil Excavation and Removal

Hart Crowser personnel will observe the excavation and removal of the approximately 65 tons of impacted soil centered at BL-06, and will conduct air monitoring of the excavation in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166 requirements. The excavated soil will be screened using a photoionization detector (PID) and impacted soil will be segregated from clean soil, if necessary.

In the general area of BL-06 there appears to be a steel casing or drainage structure that may have been used during historical manufacturing activities at the site. During the BL-06 excavation, Hart Crowser will expose the near surface anomaly indicated by what appears to be the steel casing, with the intent to remove the structure. If the structure cannot be removed within the top 12' of the excavation, Hart Crowser will evaluate options and then discuss potential alternatives with PACCAR. Upon completing the evaluation and discussion of alternatives with PACCAR, if so determined, Hart Crowser would then seek prior approval before proceeding further with the attempted removal. If it is decided that the removal of the structure is not feasible at this time, the excavation will be backfilled, compacted, and surfaced with concrete. Any impacted soils in the area will also be removed to stockpile for eventual disposal.

Upon completion of soil removal activities, soil samples will be collected under the direction of a Hart Crowser registered geologist. Soil samples will be collected using a backhoe and sampled off the bucket using either EnCore Samplers or Quick Syringes in accordance with EPA Method 5035 for VOCs. If soil samples are unable to be collected in this manner, a core sampler attached to drive rods and a slide hammer may be used to obtain samples directly from the excavation.

Soil samples collected from the excavation and from soil piles and will be submitted to a hazardous waste mobile laboratory for analysis on a quick (same day) turnaround basis. A minimum of two (2) soil samples will be collected from the base of the excavation Soil samples will also be collected from the side walls (4 samples). Each sample will be collected approximately two feet below and within native soil. After completion of all excavation activities, a minimum of two (2) soil samples will be collected from the soil stockpile for characterization of soil for disposal. Contaminated soil will be disposed of at a pre-approved disposal facility, either American Remedial Technologies or Waste Management's Kettleman Hills facility.

A temporary chain-link fence will be installed for security purposes. The concrete slab, up to 6 inches in thickness, will be cut along the perimeter of the proposed excavation, and will be removed prior to excavation procedures. Upon completion of soil-removal procedures, the excavation cavity will be backfilled in 18" lifts with clean imported soil and clean segregated soil, if any, and compacted to 90% maximum density. The excavation area will then be resurfaced with concrete with No.4 rebar, 18" O.C. each way (minimum) or other placement pattern as required by applicable codes. The excavated soil will be placed on and covered with plastic and will be profiled for disposal. Upon receipt of profile results, Hart Crowser will coordinate soil transportation and disposal. The soil will be loaded into trucks and will be disposed offsite as a non-RCRA hazardous waste at a licensed waste disposal facility that can legally accept the waste, and that has been pre-approved by PACCAR. PACCAR will be notified immediately if the profiling results indicate soil as RCRA hazardous waste. PACCAR or Hart Crowser as PACCAR's authorized representative will sign the waste manifests.

It is our understanding that the completion of the impacted soil excavation and confirmatory soil sampling is anticipated to take two days of field time, and the mobile lab will be needed for one day.

If the sample results show elevated concentrations of chemicals of concern (COCs), Hart Crowser will advise PACCAR immediately. Hart Crowser and our subcontractor will stay on site pending results of analysis by the mobile laboratory. If soil analysis indicates elevated concentrations of chemicals of concern (COCs), it may be determined that additional soil should be removed. Analytical results will be compared to cleanup standards and Hart Crowser will provide advice regarding further excavation.

Task 3 - Laboratory Analyses

A minimum of eight (8) soil samples will be collected during the soil removal activities and submitted to a mobile laboratory for analysis. Selected soil samples will be analyzed for volatile hydrocarbons, semi-volatile hydrocarbons, TPH, and CAM 17 Metals to characterize the soil for disposal.

Soil samples collected following the removal of the impacted soil will be analyzed on-site for volatile hydrocarbons and carbon chain by a State-certified hazardous waste mobile laboratory. Analyses for semi-volatile hydrocarbons and CAM 17 Metals will be performed at a stationary laboratory

Results will be compared to cleanup standards and Hart Crowser will provide advice regarding further excavation.

Task 4 – Preparation of Soil Removal Report

Upon completion of site excavation activities and receipt of the analytical results, a soil removal draft report will be prepared which summarizes the work that was performed, the procedures that were used, the data obtained, and a discussion of the results and conclusions. In addition, site plot plans and maps documenting the site activities will be included in the report. All site drawings will be provided in a computer aided drawing (CAD) electronic format compatible with AutoCAD 2002 for the final report. During presentation of the draft report, a "pdf" format may be used for transmittal of site drawings, however site drawings will also be made available in the CAD electronic format upon request. A compaction report and waste manifests will also be included in this report. An electronic draft report will be submitted to PACCAR for review and comments. Hart Crowser will make the necessary adjustments, if any, to the draft report based on comments received from PACCAR. It is expected that if all PACCAR comments are addressed and questions answered in advance, a single re-draft will be provided. Three copies of the final report will be issued after Paccar's approval.

Task 5 – Project Management

This task involves the coordination of each of the tasks listed above, client communications, and overall project management and a meeting with the Los Angeles Regional Water Quality Control Board (LARWQCB).

4.0 SCHEDULE

The estimated time to complete all tasks is approximately four (4) weeks following initiation of the project. The estimated time to conduct field excavation activities is two (2) days. Off-site soil disposal will follow completion of all excavation activities, stockpile sampling, analysis for waste characterization and profiling, followed by transportation and disposal to a licensed, pre-approved disposal facility.

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., 2004. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 16169. April.

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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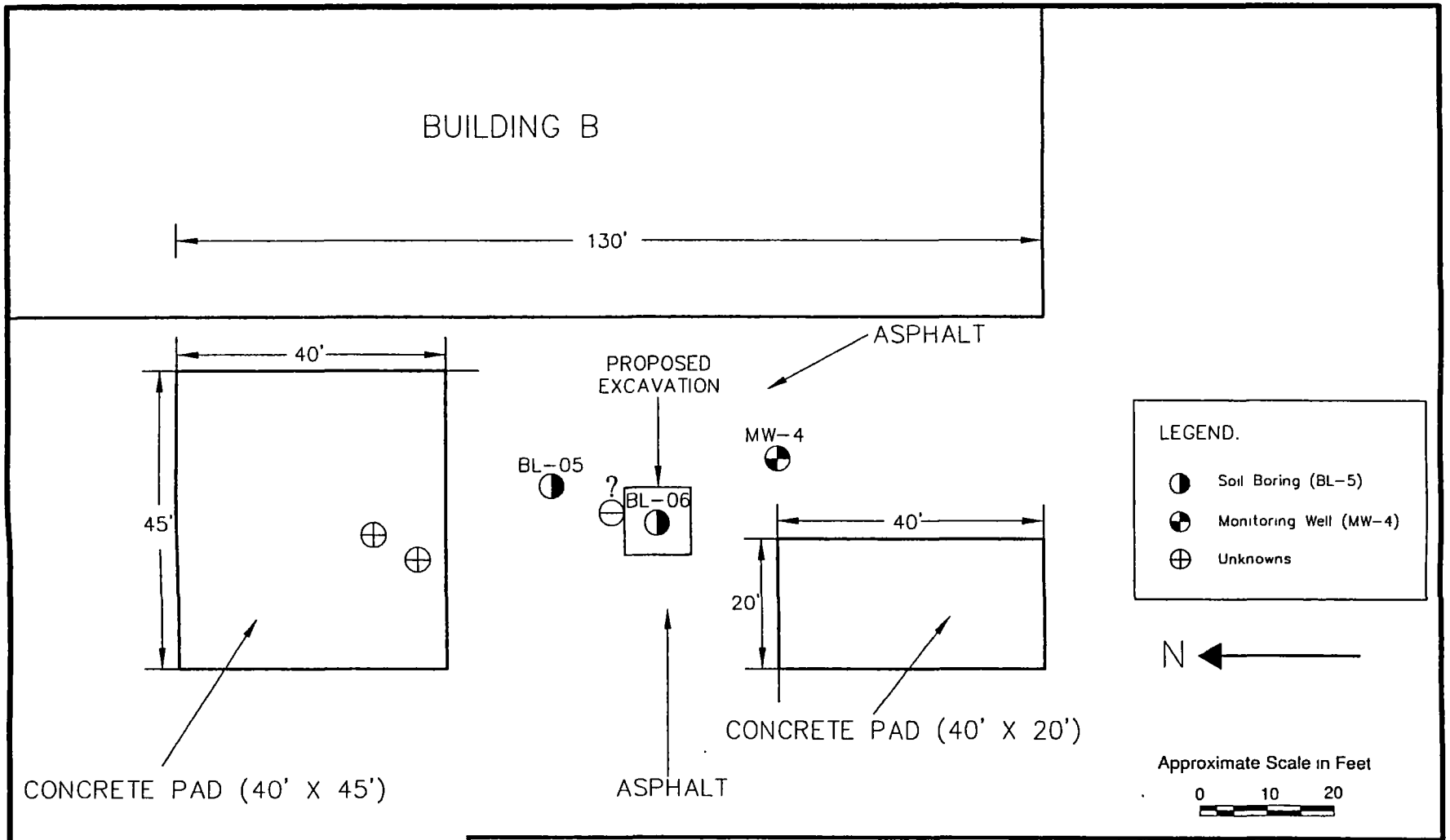
PACCAR 04177

Figures

FIGURES



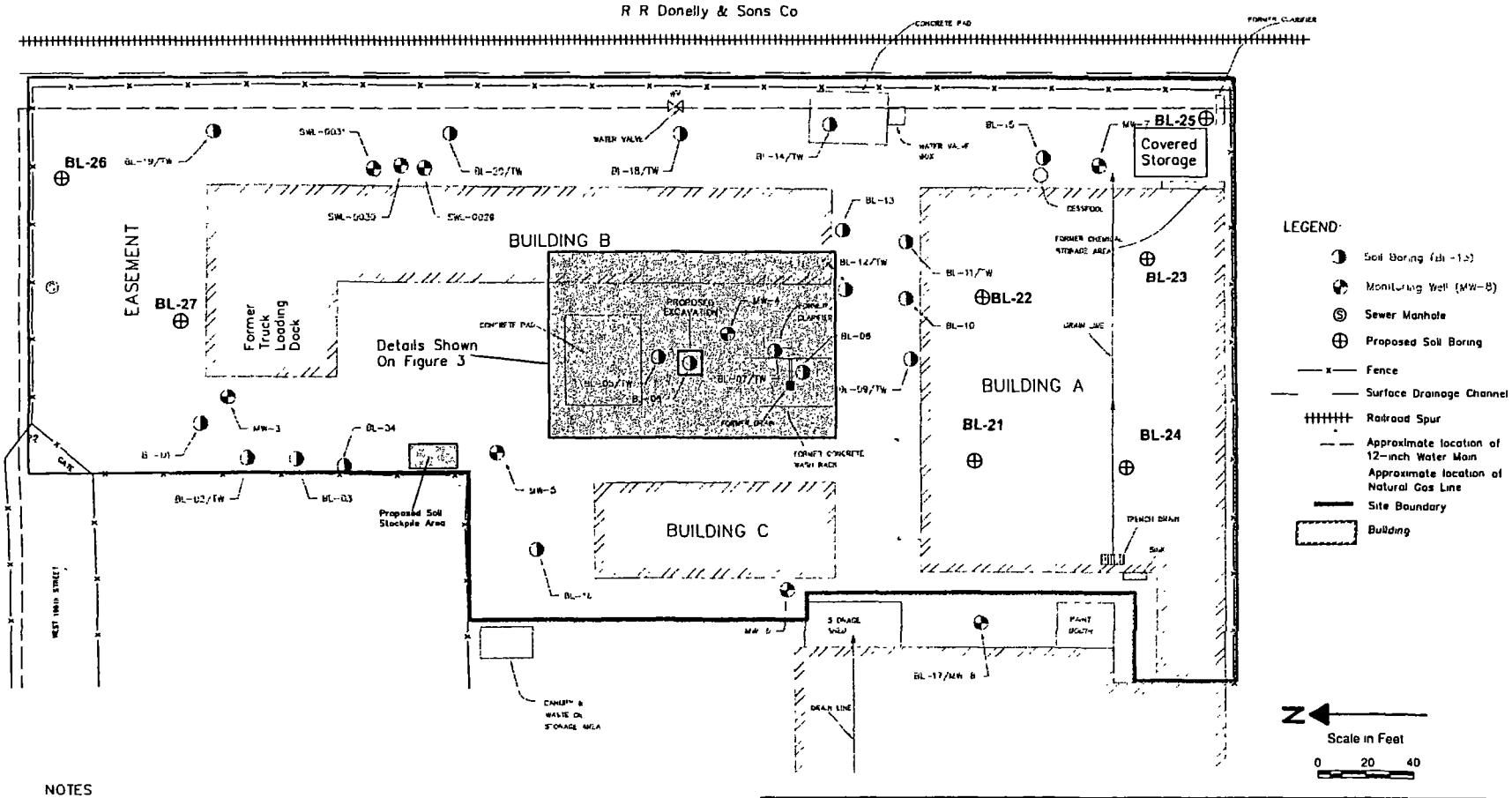
HARTCROWSER

Details of Excavation Area Near BL-06

Former Trico Facility
1206 W 196th ST
Torrance, California

Date: April 8, 2004	Job No.: 16169	File F Data/Jobs/16000/16169/Figures/AutoCAD/ Figure 3-Excavation Area Near BL-06	FIGURE 3

PACCAR 04180



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

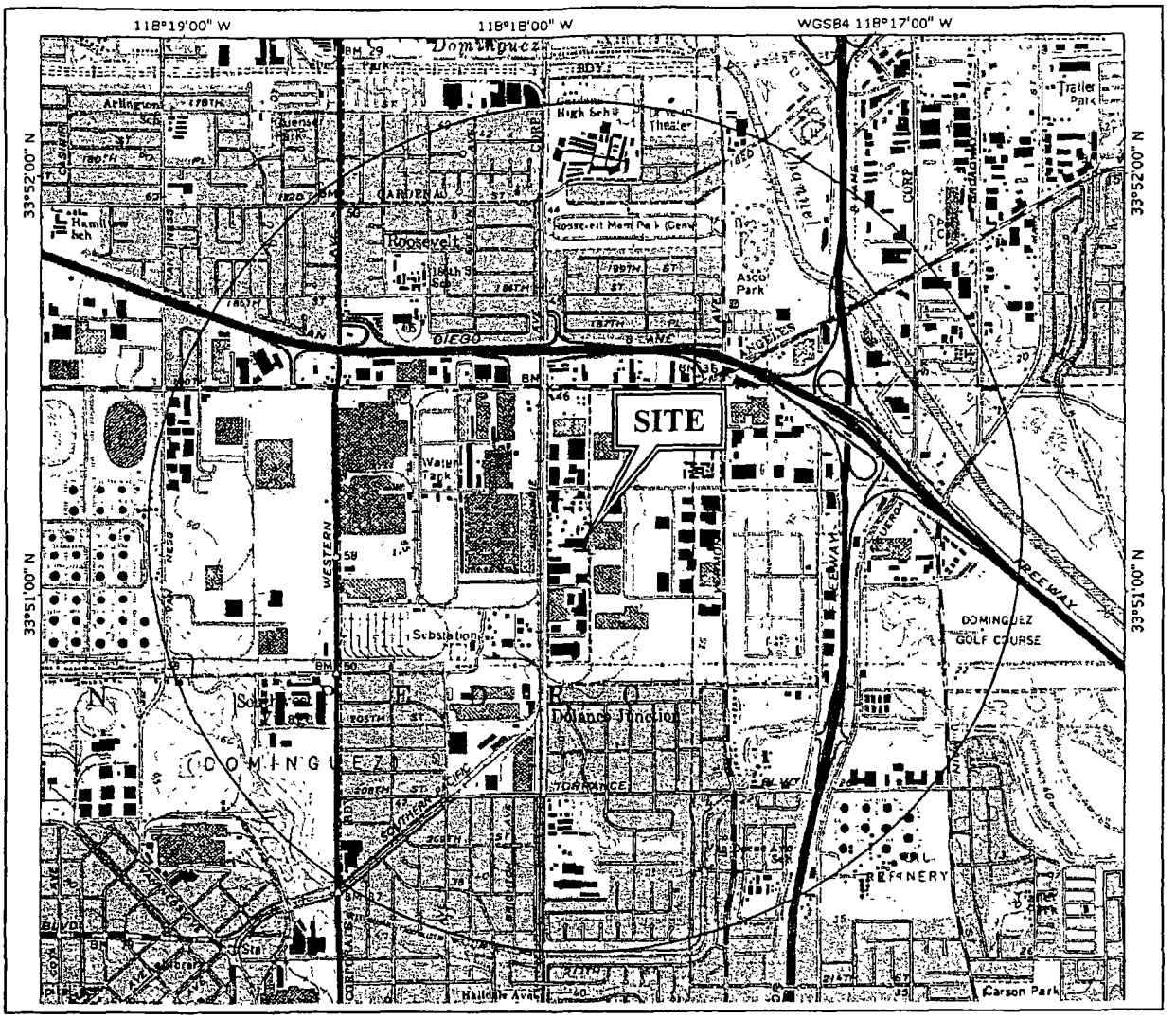
Proposed Excavation Near BL-06 and Soil Stockpile Area
Former Trico Facility
1206 W 196th ST
Torrance, California

Date. April 8, 2004
Job No 16169

File I Data Jobs/16000 16169 Figures/AutoCAD/
Figure 2 Proposed Excavation Near BL-06 and Soil Stockpile Area

FIGURE 2

PACCAR 04181



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

Project No	Date
1617100	March 29, 2003

FIGURE 1. SITE LOCATION MAP

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PACCAR 04182

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.

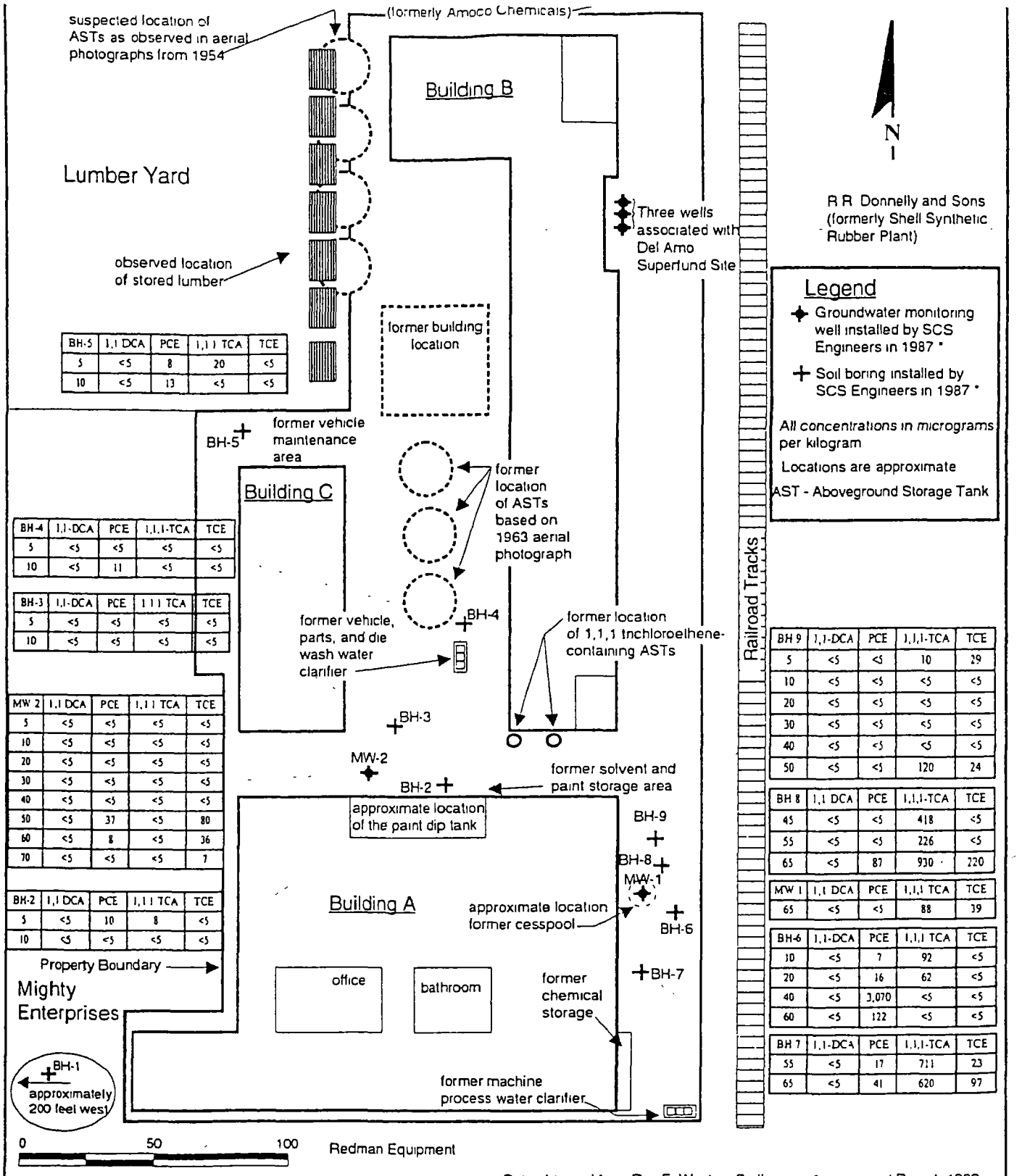
The transformers at the subject property were observed to be in good condition. No staining, discoloration, or corrosion was observed on the transformers.

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

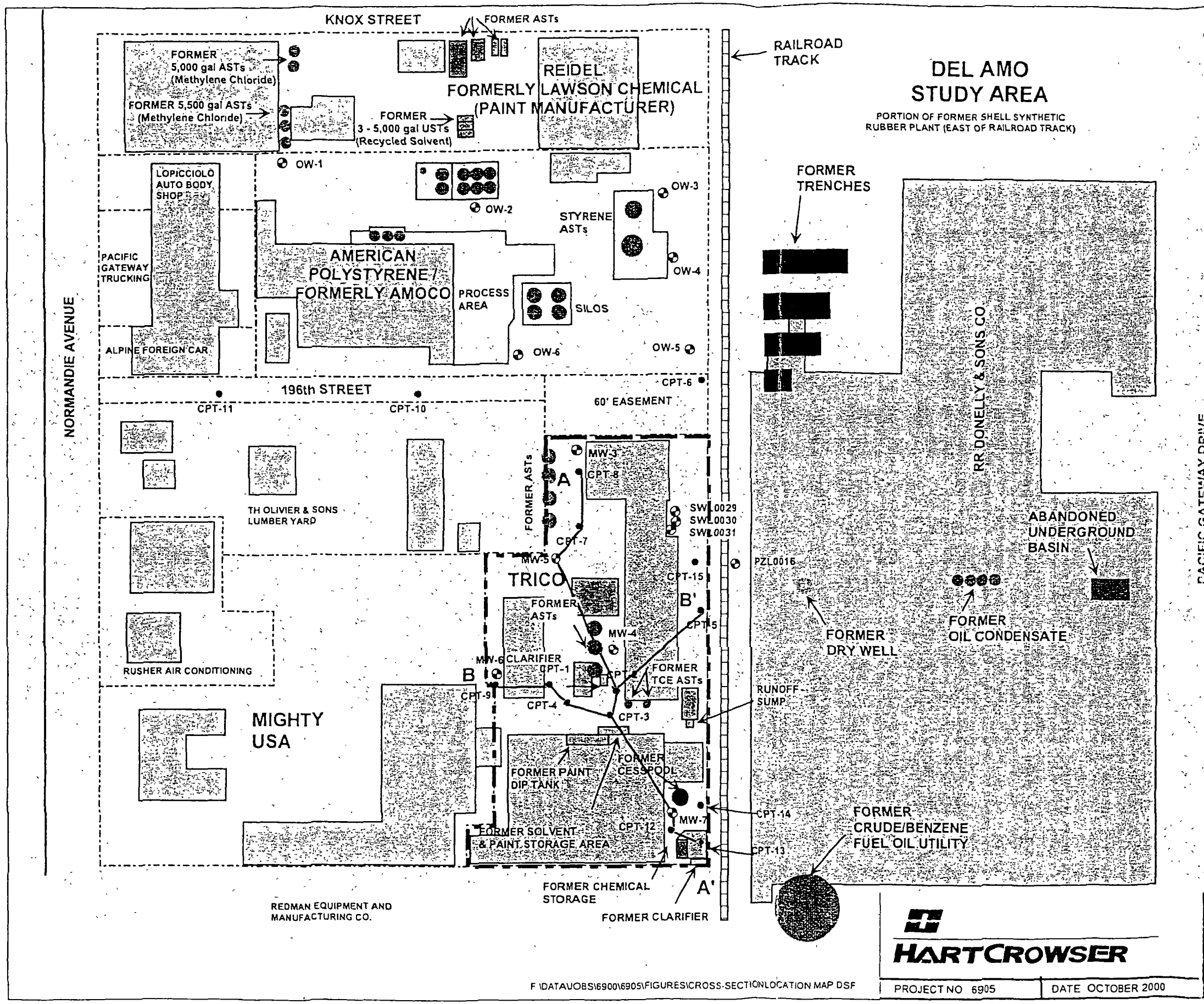
PROJECT NAME: FORMER TRICO - TORRANCE

Historical Soil Analytical Results for Selected Volatile Organic Compounds
1206 W.196th Street, Torrance, CA

PROJECT NO . 6905 | DATE. October 2000

FIGURE 2

PACCAR 04193



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.)

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FINAL GROUNDWATER REMEDIAL INVESTIGATIONS REPORT, DEL AMO STUDY AREA, MAY 15, 1998 (DAMES & MOORE)

HARTCROWSER

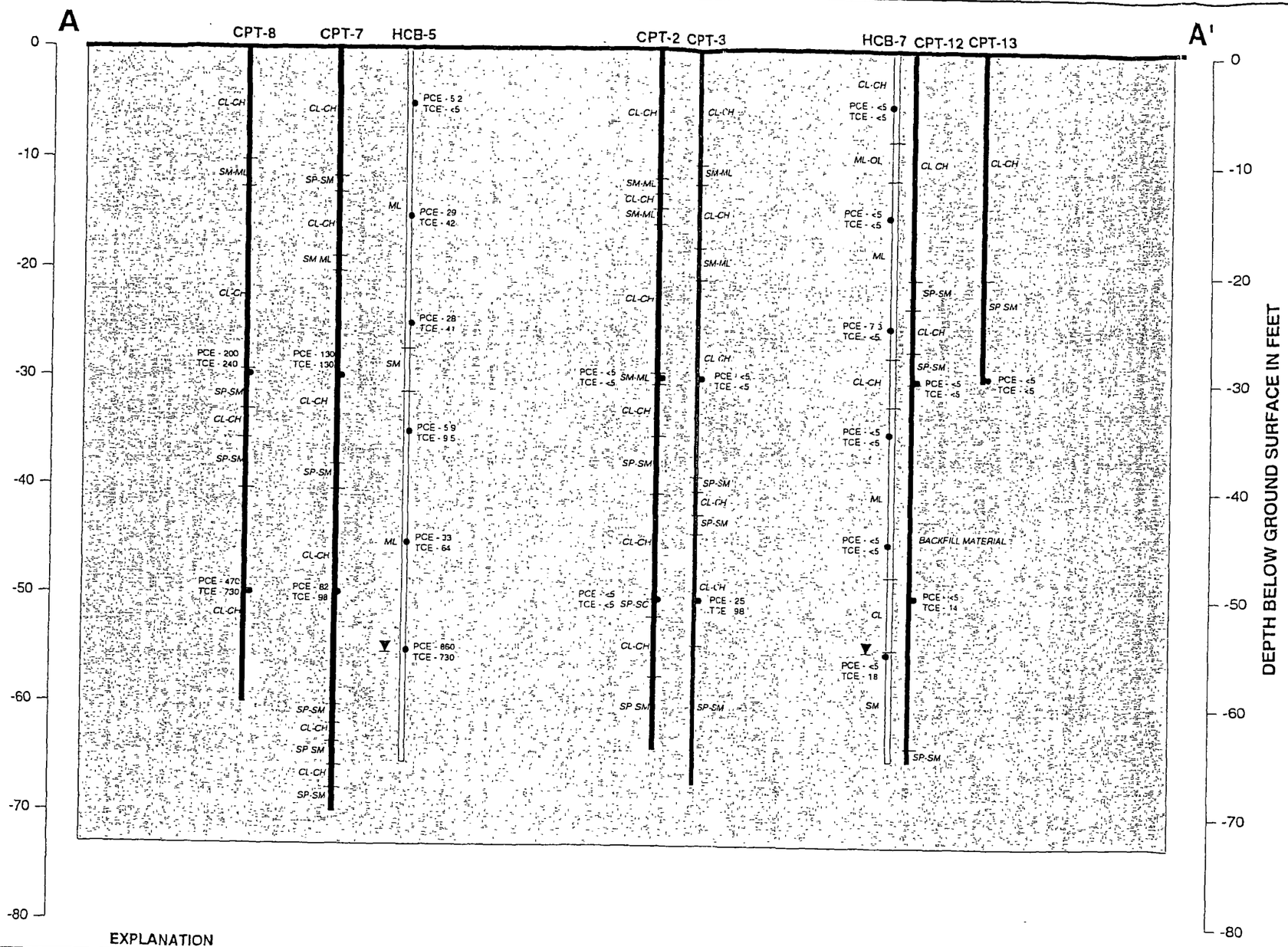
F:\DATA\JOBS\6900\6905\FIGURES\CROSS-SECTION\LOCATION MAP.DSF

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

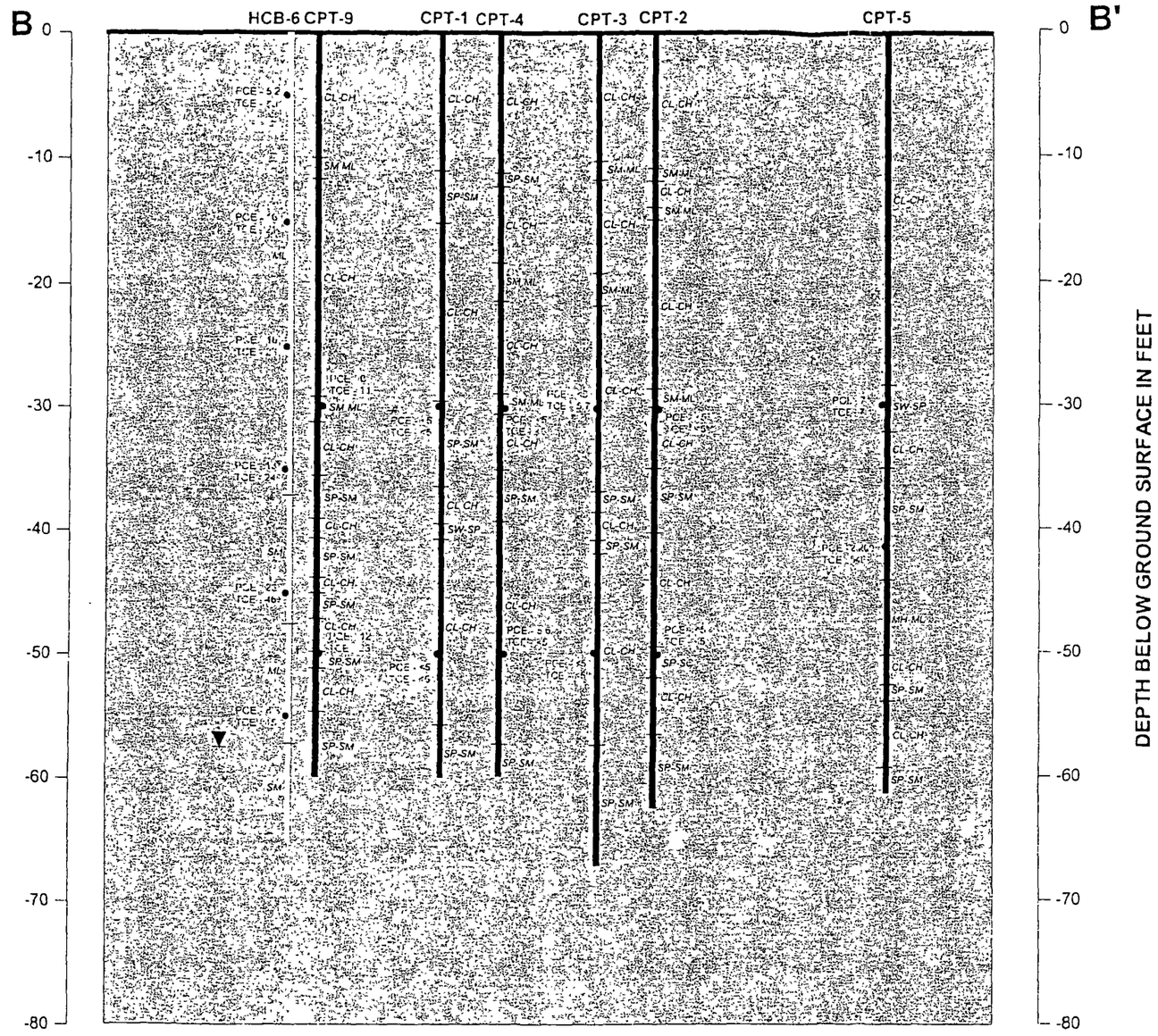
PROJECT NO : 6905

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

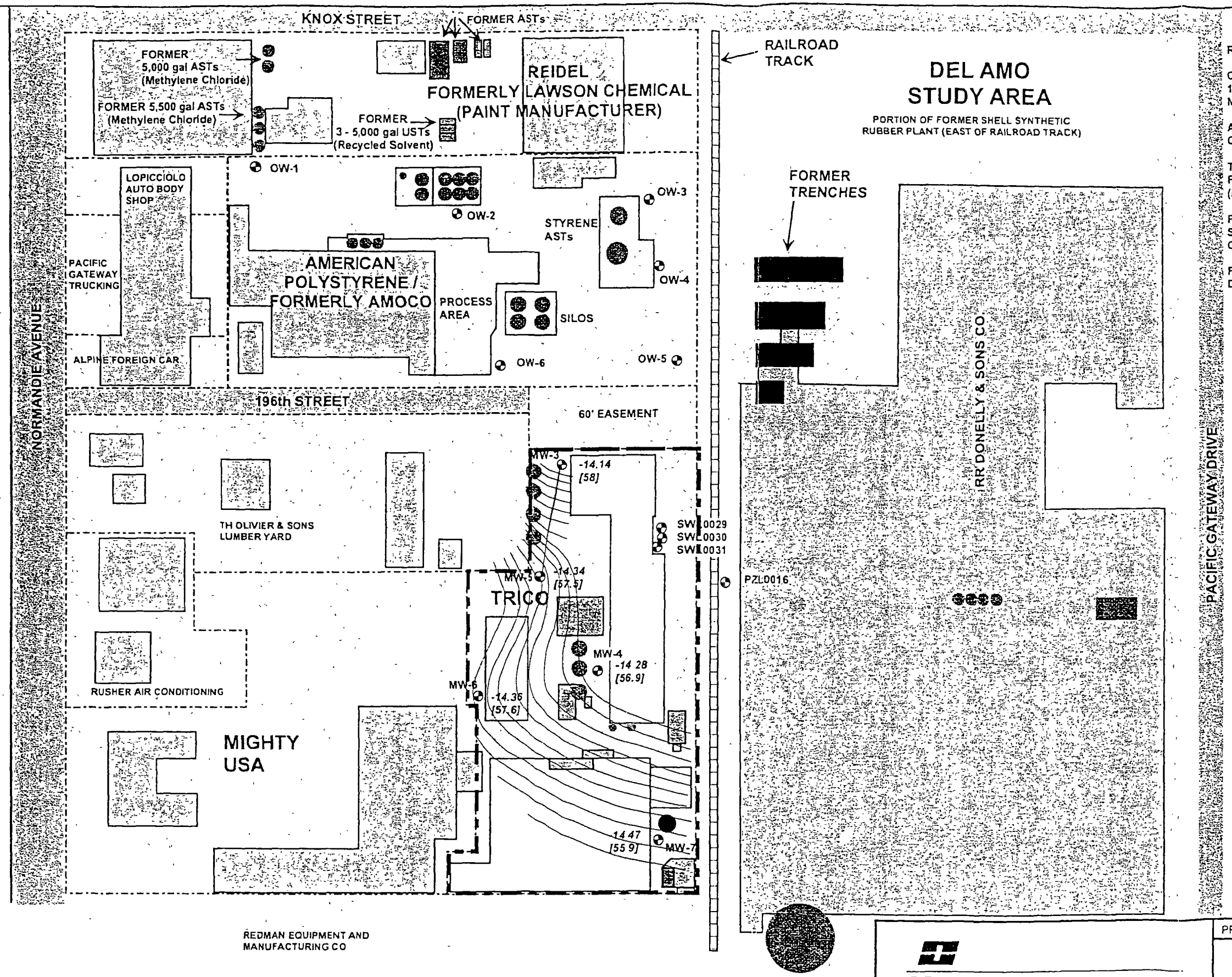
HARTCROWSER

PROJECT NO 6905 | DATE: OCTOBER 2000

PROJECT NAME FORMER TRICO - TORRANCE

CROSS SECTION B - B'
1206 W.196th Street
Torrance, CA

FIGURE 5



REFERENCES

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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

F \DATA\JOBS\6900\6905\FIGURES\GROUNDWATER ELEVATION DSF

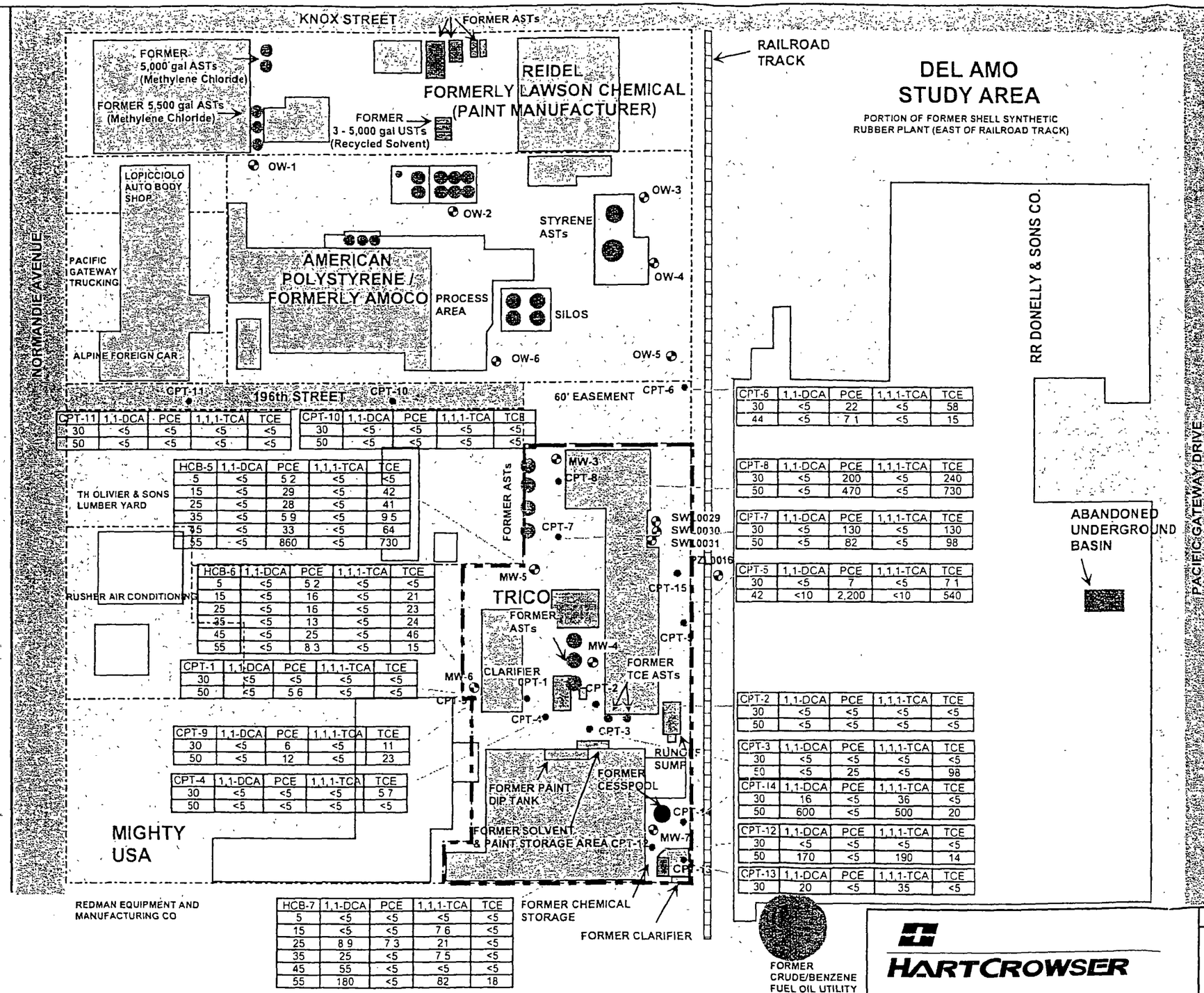
HARTCROWSER

PROJECT NO 6905 | DATE October 2000

PROJECT NAME TRICO - TORRANCE

GROUNDWATER CONTOUR MAP
1206 W.196th Street
Torrance, CA

FIGURE 6



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

F \DATA\JOBS\6900\6905\FIGURES\soildata dsf

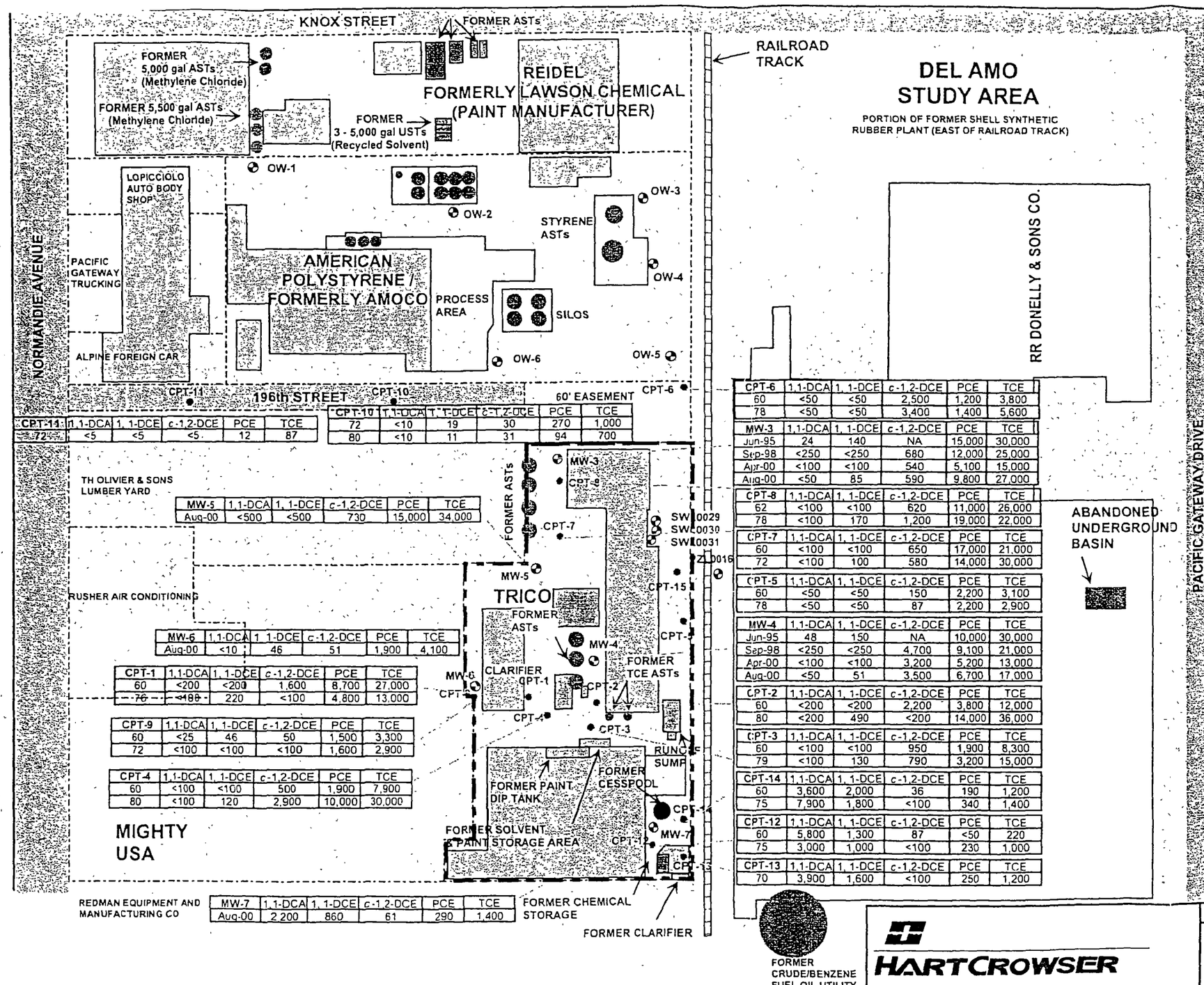
HARTCROWSER

PROJECT NO 6905 | DATE October 2000

PROJECT NAME. TRICO - TORRANCE

SELECTED VOCs IN SOIL
1206 W.196th Street
Torrance, CA

FIGURE 7



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	<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.)

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-- 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

F:\DATA\JOBS\6900\6905\FIGURES\groundwaterdata.dsf

HARTCROWSER

PROJECT NO 6905 | DATE October 2000

PROJECT NAME TRICO - TORRANCE

SELECTED VOCs IN GROUNDWATER
1206 W.196th Street
Torrance, CA

FIGURE 8

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)

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Table 2

Summary of Soil Analytical Results

Former Trico Facility

Torrance, CA

Sample	Sample Depth (feet bgs)	Date Sampled	VOCs by EPA Method 8260B/5035 (Results in ug/Kg): Acetone	Benzene	2-Butanone	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform: PRG	Chloroform: CAL-Modified PRG	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,2-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1-Dichloroethene: PRG	1,1-Dichloroethene: 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	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: non cancer endpoint	Arsenic: cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead: PRG	Lead: CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
U S. EPA Region 9 PRGs dated 10/01/02	Residential Soil		1 6^{+6}	600	NA	240,000	220,000	3,600	940	3 7^{+5}	3,400	280	43 000	1 2^{+5}	5 1^{+5}	2,800	NA	1 6^{+5}	NA	8 900	9,100	56,000	2 4^{+5}	1,500	5 2^{+5}	220,000	3 9^{+5}	730	1 2^{+6}	52,000	21,000	53	NA	NA	NA	0 22	NA	22	0 39	5,400	150	210	900	3,100	400	150	0	390	1,600	390	390	550	23,000
	Industrial Soil		6^{+6}	1,300	NA	240,000	220,000	1 2^{+4}	2,000	3 7^{+5}	7,900	600	150,000	4 1^{+5}	1 7^{+6}	6,000	NA	520	NA	20,000	21,000	190,000	2 4^{+5}	3,400	5 2^{+5}	220 000	3 9^{+5}	1,600	1 2^{+6}	170,000	70,000	110	NA	NA	NA	0 74	NA	260	1 6	6 7^{+4}	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	<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	–	–	–	4 2		120	<1	17	8 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	<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	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	<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	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2.2		88	<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	<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	400	<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	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
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	–	–	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	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	<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	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	<5	1600	<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	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
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	<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	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	<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	<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	<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	<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	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	<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	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	<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	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	<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	–	–	–	1.9		110	<1	15	7.9	16	4.9		–	<5	8 2	<0 5	<1	32	38
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	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
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	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

DRAFT

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

Analyte — VOCs by EPA Method 8260B/5035 (Results in ug/Kg)

Sample	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)
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		1 6^{+6}	600	NA	240,000	220,000	3,600	940	3 7^{+5}	3,400	280	43,000	1 2^{+5}	5 1^{+5}	2,800	NA	1 6^{+5}
	Industrial Soil		6^{+6}	1,300	NA	240,000	220 000	1 2^{+4}	2 000	3 7^{+5}	7,900	600	150 000	4 1^{+5}	1 7^{+6}	6 000	NA	520
BL-9	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	9 6	<5	<5		<10	<5
BL-9	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	<5	<5		<10	<5
BL-10	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-10	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-11	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-11	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-11	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-11	25	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	6 7	<5		<10	<5
BL-11	35	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-11	45	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8 1	10	6 2		<10	<5
BL-11	60	12/17/02	<50	<2	<50	<5	<5	6 2		<5	<5	<5	72	<5	<5		<10	<5
BL-12	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-12	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-12	20	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5 9	<5	<5		<10	<5
BL-12	30	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	32	<5	<5		<10	<5
BL-12	40	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	7 7	<5	<5		<10	<5
BL-12	55	12/17/02	<50	<2	<50	<5	<5	19		<5	<5	<5	370	7.5	<5		<10	<5
BL-12	60DUP	12/17/02	<50	<2	<50	<5	<5	23		<5	<5	<5	380	10	<5		<10	<5
BL-13	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-13	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	16	<5	<5		<10	<5
BL-13	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-14	5	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-14	10	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-14	20	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	11	<5	<5		<10	<5
BL-14	30	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-14	40	12/18/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-14	50	12/18/02	<50	<2	<50	<5	<5	8 3		<5	<5	<5	92	21	<5		<10	<5
BL-15	0 5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-15	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-15	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-15	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	7 8		<10	<5
BL-15	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	6 2		<10	<5
BL-15	50	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	6 1	<5	130	290		<10	<5
BL-15	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	240	380		<10	<5
BL-16	0 5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-16	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-16	10	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5 1	<5	<5		<10	<5
BL-16	20	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-16	30	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-16	40	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5
BL-16	50	12/11/02	<50	<2	<50	<5	<5	6 1		<5	<5	<5	20	<5	<5		<10	<5
BL-17	5	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5

Sample	Sample Depth (feet bgs)	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
US EPA Region 9 PRGs – Residential Soil		NA	8,900	9 100	56,000	2 4^{+5}	1,500	5 2^{+5}	220 000	3 9^{+5}	730	1 2^{+6}	52,000	21,000	53	NA	NA
US EPA Region 9 PRGs – Industrial Soil		NA	20,000	21,000	190,000	2 4^{+5}	3 400	5 2^{+5}	220,000	3 9^{+5}	1,600	1 2^{+6}	170,000	70,000	110	NA	NA
BL-9	25	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	36	<2	<2
BL-9	45	<50	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	<5	76	<2	<2
BL-10	10	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-10	20	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	6 2	<2	<2
BL-11	5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5 8	<2	<2
BL-11	10	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-11	15	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-11	25	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	<5	51	<2	<2
BL-11	35	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	6 9	<2	<2
BL-11	45	<50	<2	<50	<10	<5	13	<2	<5	<5	<5	<5	<5	<5	78	<2	<2
BL-11	60	<50	<2	<50	<10	<5	110	<2	<5	<5	<5	<5	<5	<5	430	<2	<2
BL-12	5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-12	10	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-12	20	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	13	<2	<2
BL-12	30	<50	<2	<50	<10	<5	11	<2	<5	<5	<5	<5	<5	<5	70	<2	<2
BL-12	40	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	75	<2	<2
BL-12	55	<50	<2	<50	<10	<5	490	<2	<5	<5	<5	<5	<5	<5	1300	<2	<2
BL-12	60DUP	<50	<2	<50	<10	<5	720	<2	<5	<5	<5	<5	<5	<5	2200	<2	<2
BL-13	10	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-13	25	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	45	<2	<2
BL-13	40	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-14	5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	8 1	<2	<2
BL-14	10	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-14	20	<50	<2	<50	<10	<5	8 9	<2	<5	<5	<5	<5	<5	<5	47	<2	<2
BL-14	30	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-14	40	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	16	<2	<2
BL-14	50	<50	<2	<50	<10	<5	77	<2	<5	<5	<5	<5	<5	<5	320	<2	<2
BL-15	0 5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	15	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2
BL-15	25	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	12	<5	<5	6 1	<2	<5
BL-15	35	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-15	50	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	120	<5	<5	24	<2	<5
BL-15	55	<50	<2	<50	<10	<5	9 1	<2	<5	<5	<5	66	<5	<5	37	<2	<5
BL-16	0 5	<50	<2	<50	<10	<5	69	<2	<5	<5	<5	<5	<5	<5	34	<2	<5
BL-16	5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	<5	19	<2	<5
BL-16	10	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	<5	34	<2	<5
BL-16	20	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	<5	29	<2	<5
BL-16	30	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	<5	8 6	<2	<5
BL-16	40	<50	<2	<50	<10	<5	7 4	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-16	50	<50	<2	<50	<10	<5	320	<2	<5	<5	<5	<5	<5	<5	410	<2	<5
BL-17	5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5

Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)

Sample	Sample Depth (feet bgs)	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418 1 (mg/kg)	Arsenic non cancer endpoint	Arsenic cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead PRG	Lead CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
US EPA Region 9 PRGs – Residential Soil		NA	0 22	NA	22	0 39	5,400	150	210	900	3,100	400	150	0	390	1,600	390	390	550	23,000
US EPA Region 9 PRGs – Industrial Soil		NA	0 74	NA	260	1 6	6 7^{+4}	1,900	450	1,900	41 000	750	NA	0	5,100	20,000	5,100	5,100	7 200	100,000
BL-9	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-9	45	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-10	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-10	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	35	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	45	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	60	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	5	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	30	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	60DUP	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	30	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	0 5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	35	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	0 5	–	–	–	2.8		91		20	12	21	5 6		0 081	<5	14	<0 5	<1	42	63
BL-16	5	–	–	<5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	30	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

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

Analyte — VOCs by EPA Method 8260B/5035 (Results in ug/Kg)

Sample	Sample Depth (feet bgs)	Date Sampled	Acetone	Benzene	2-Butanone	Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Chloroform[1] PRG	Chloroform[1] CAL-Modified PRG	1,3-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
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		1 6^{+6}	600	NA	240 000	220,000	3 600	940	3 7^{+5}	3,400	280	43,000	1 2^{+5}	5 1^{+5}	2,800	NA	1 6^{+5}	NA	8,900	9,100	56,000	2 4^{+5}	1,500	5 2^{+5}	220,000	3 9^{+5}	730	1 2^{+6}	52,000	21,000	53	NA	NA
	Industrial Soil		6^{+5}	1,300	NA	240,000	220,000	1 2^{+4}	2,000	3 7^{+5}	7,900	600	150 000	4 1^{+5}	1 7^{+5}	6,000	NA	520	NA	20,000	21,000	190 000	2 4^{+5}	3,400	5 2^{+5}	220,000	3 9^{+5}	1 600	1 2^{+5}	170,000	70,000	110	NA	NA
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	63	<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	320	<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
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	260	<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

Analyte (continued) — SVOCs, PCBs, TRPH; Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)

Sample	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)	Arsenic non cancer endpoint	Arsenic cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead PRG	Lead CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		NA	0 22	NA	22	0 39	5,400	150	210	900	3,100	400	150	0	390	1,600	390	390	550	23,000
	Industrial Soil		NA	0 74	NA	260	1 6	6 7^{+4}	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5 100	5,100	7,200	100,000
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	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
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 quantitation limit (PQL)

VOCs - Volatile Organic Compous
SVOCs - Semi Volatile Organic Compous
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
NA = not applicable

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/
[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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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.

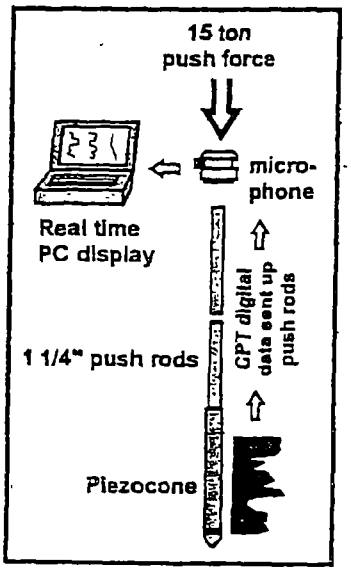


FIGURE 3.1 – CPT System

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,

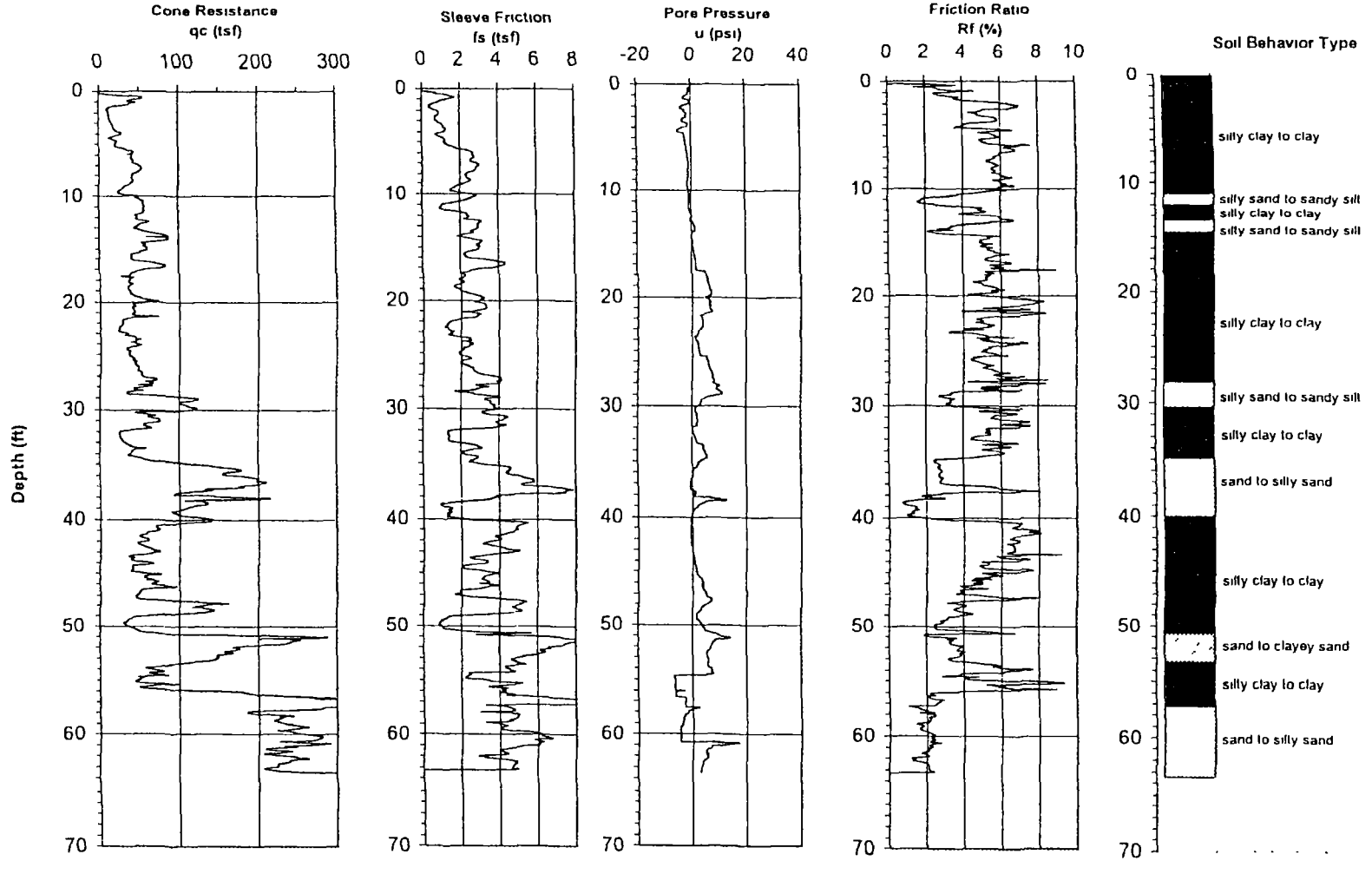
KEHOE TESTING & ENGINEERING

Steve Kehoe, P.E.
President

APPENDIX

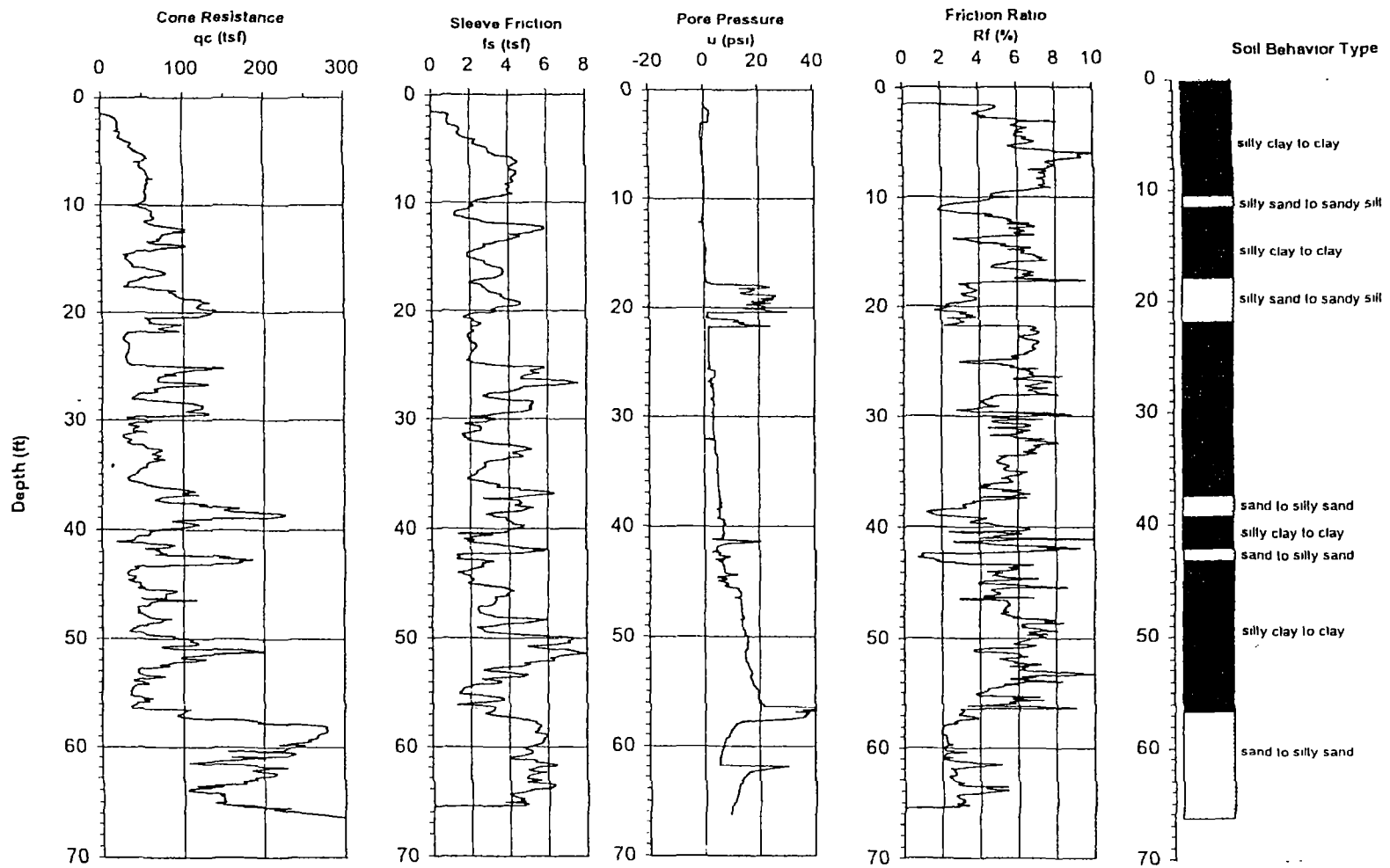
KTE
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-2	CPT Date :	4/3/00



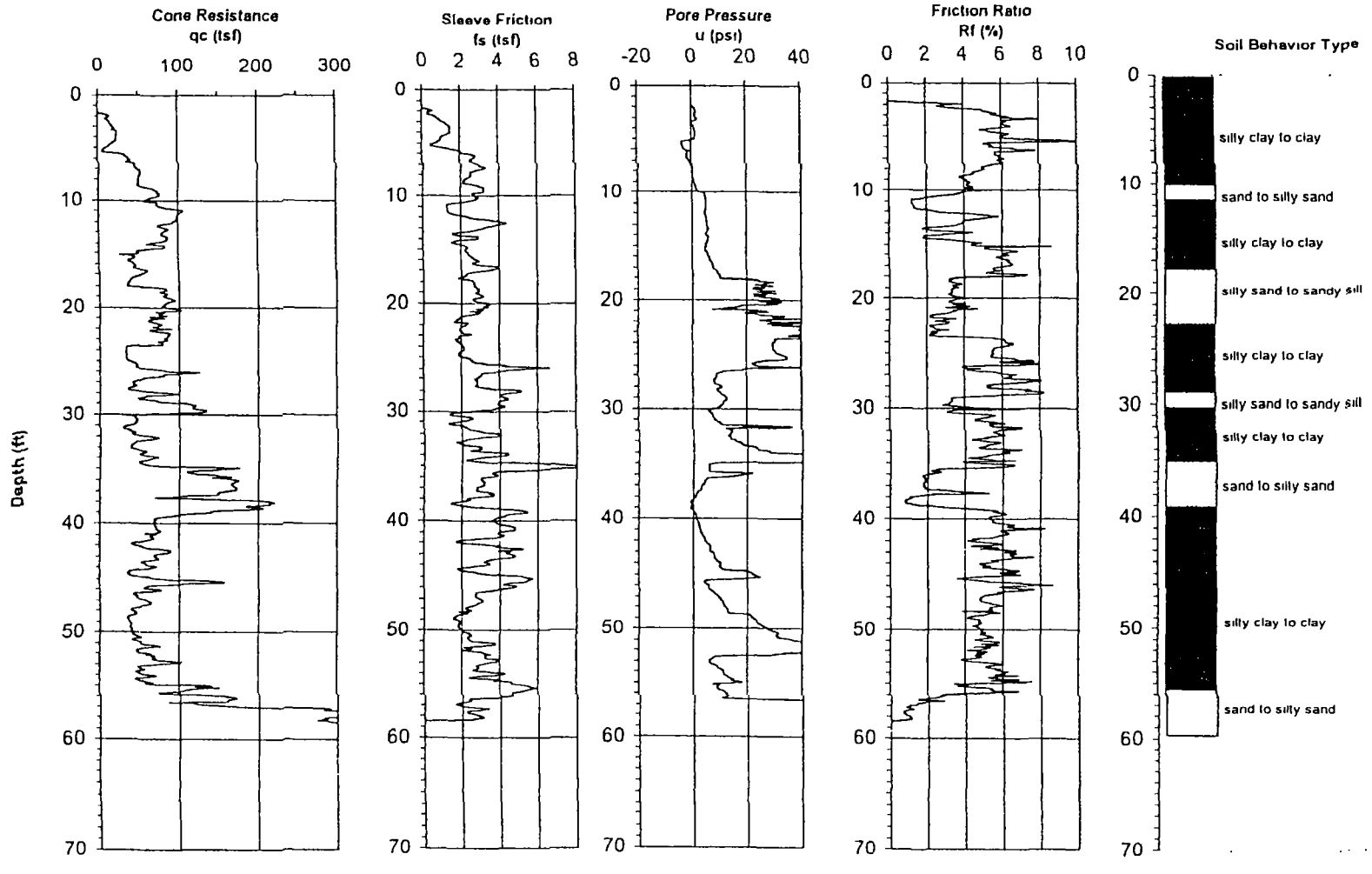
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-3	CPT Date :	4/3/00



KEHOE TESTING & ENGINEERING

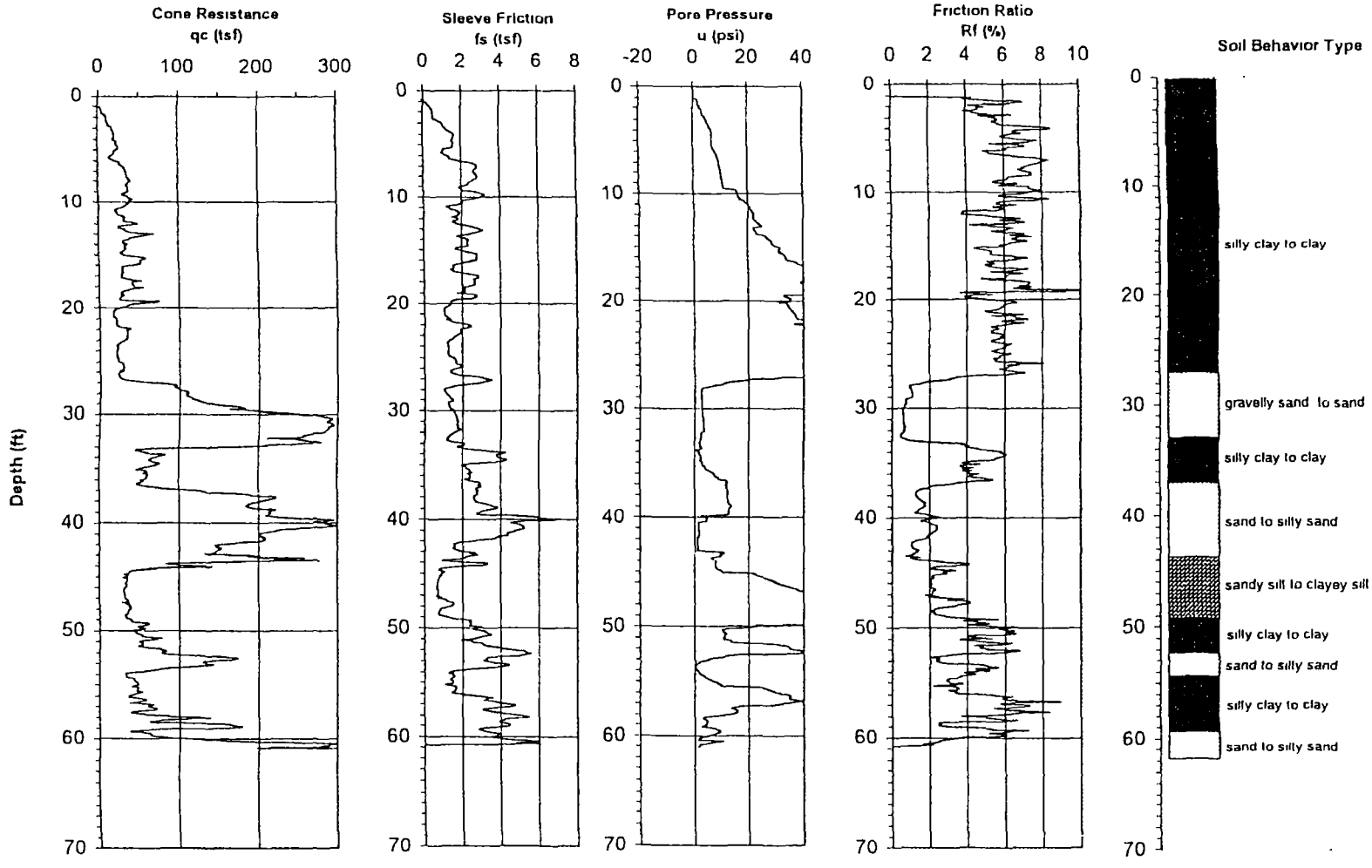
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-4	CPT Date :	4/3/00



PACCAR 04218

KTE
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-5	CPT Date :	4/4/00



PACCAR 04219

KEHOE TESTING & ENGINEERING

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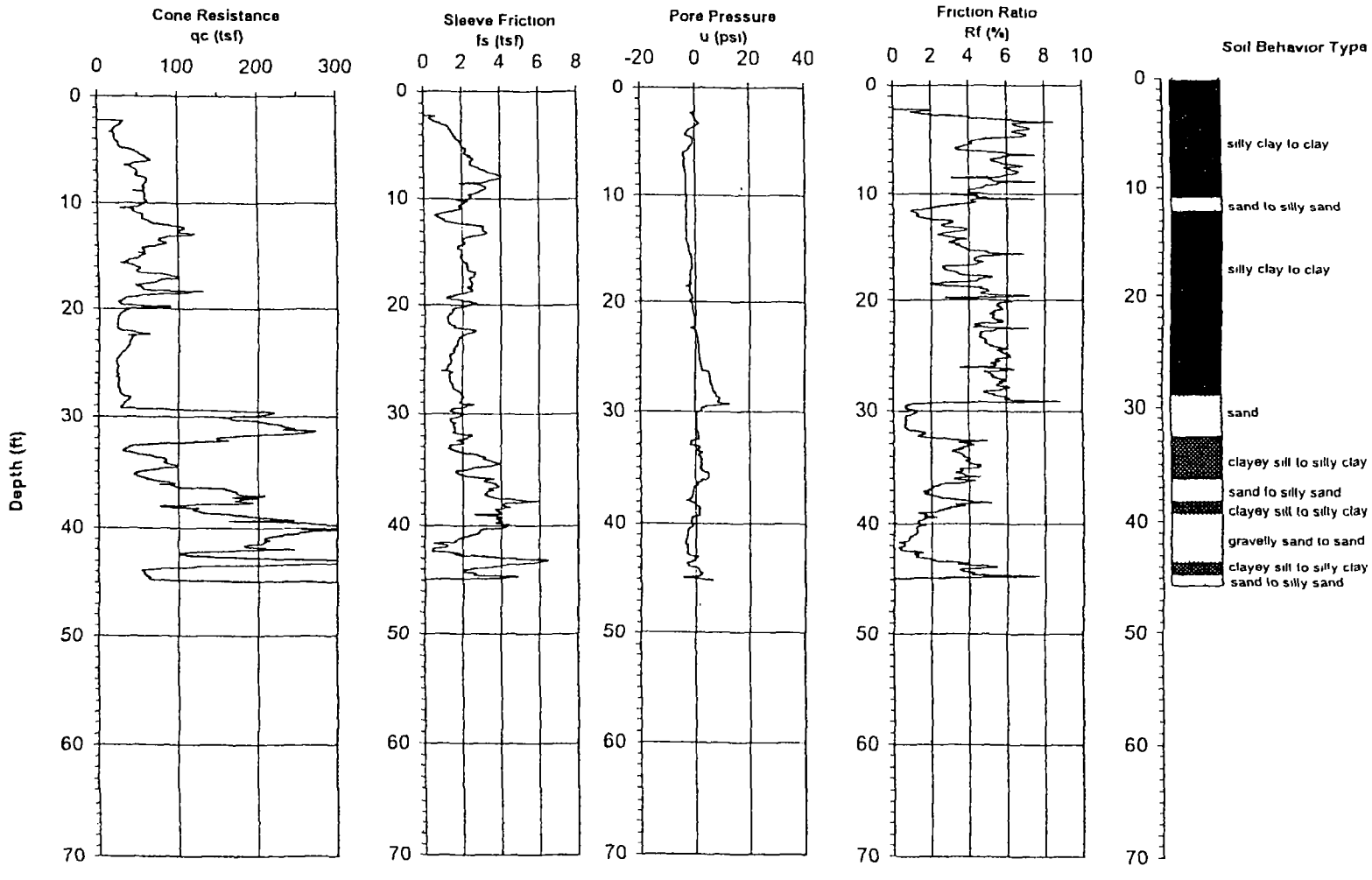
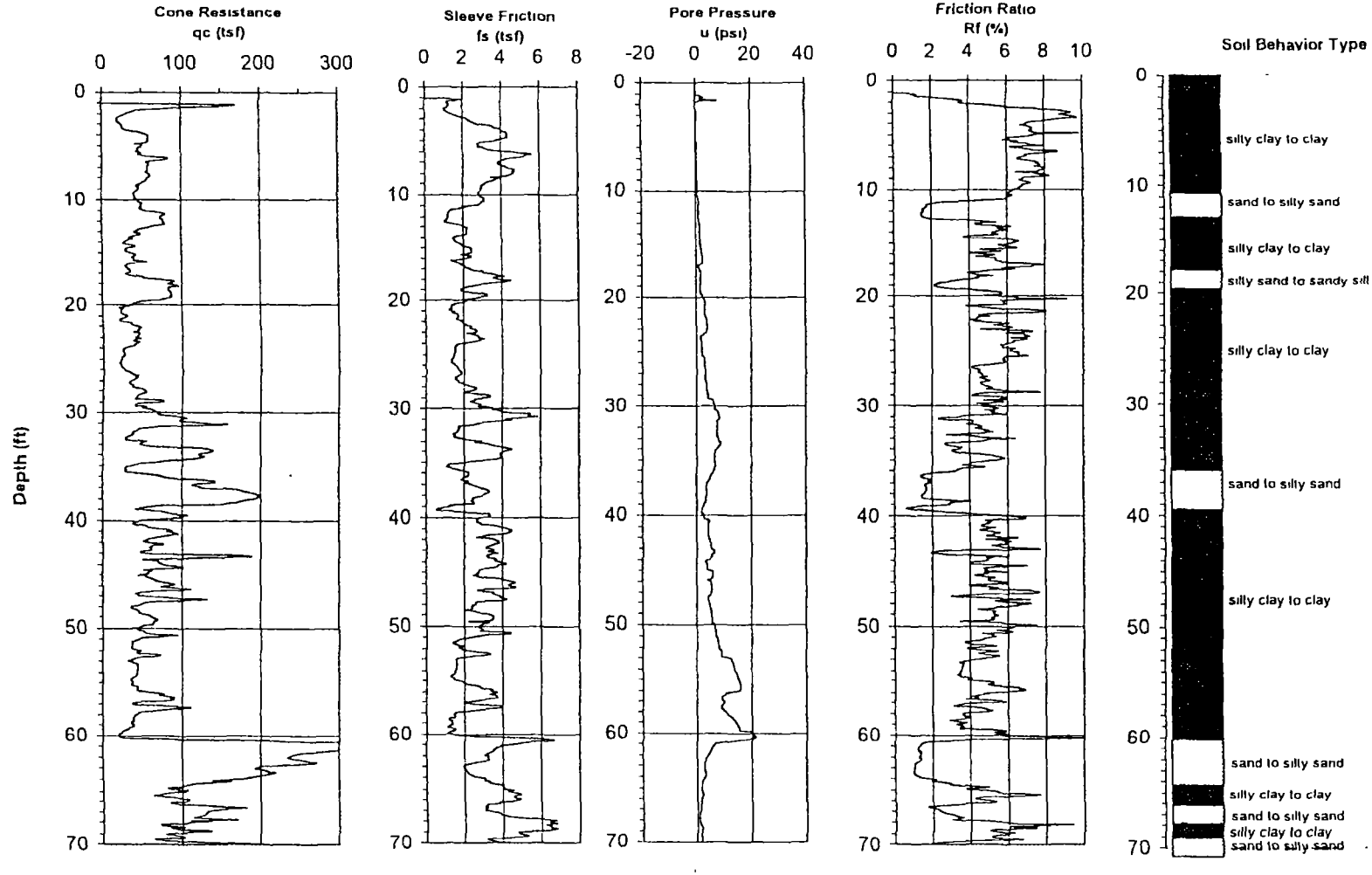
Location :	CPT-6	CPT Date :	4/4/00



PACCAR 04220

KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-7	CPT Date :	4/4/00



PACCAR 04221

KEHOE TESTING & ENGINEERING

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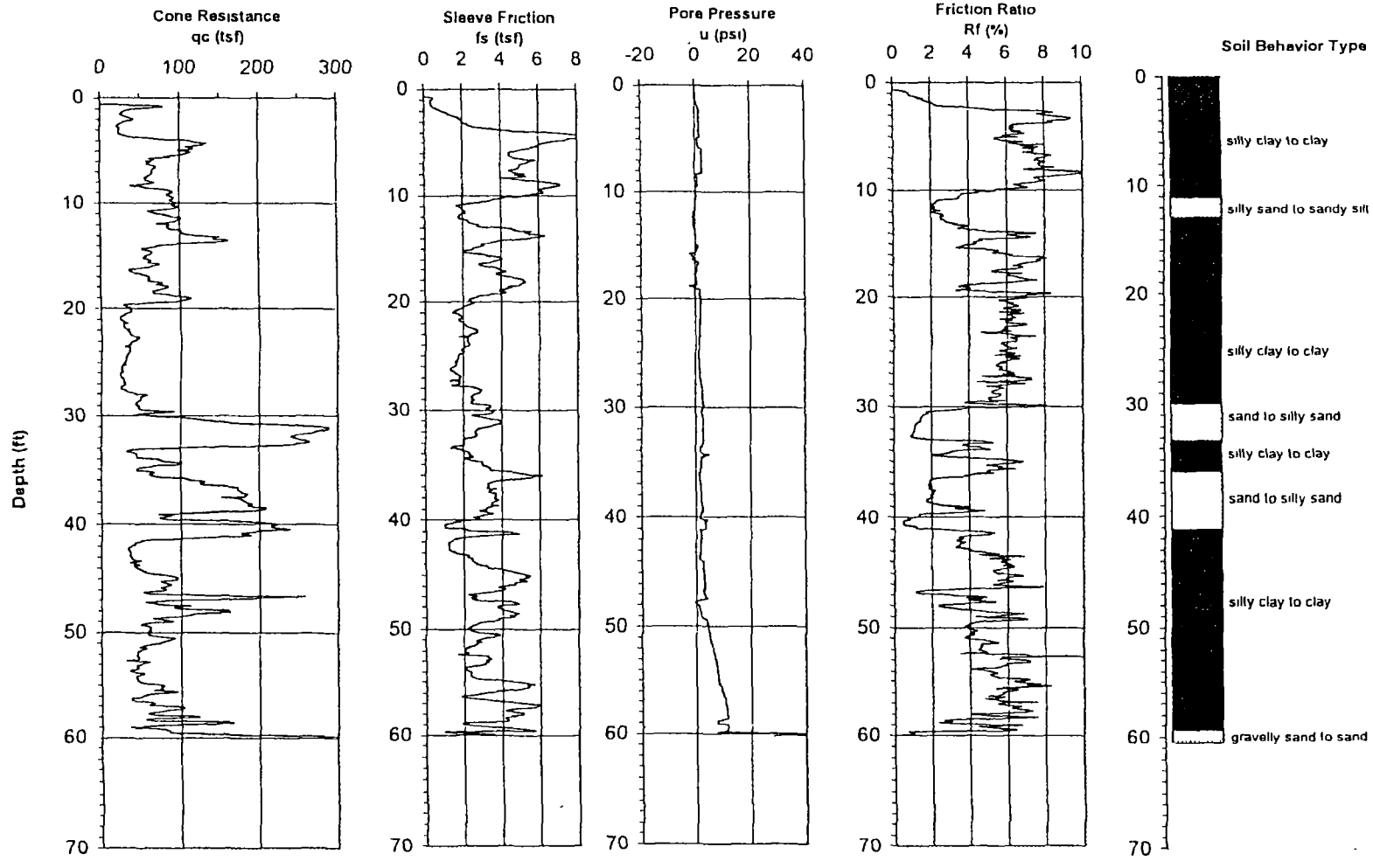
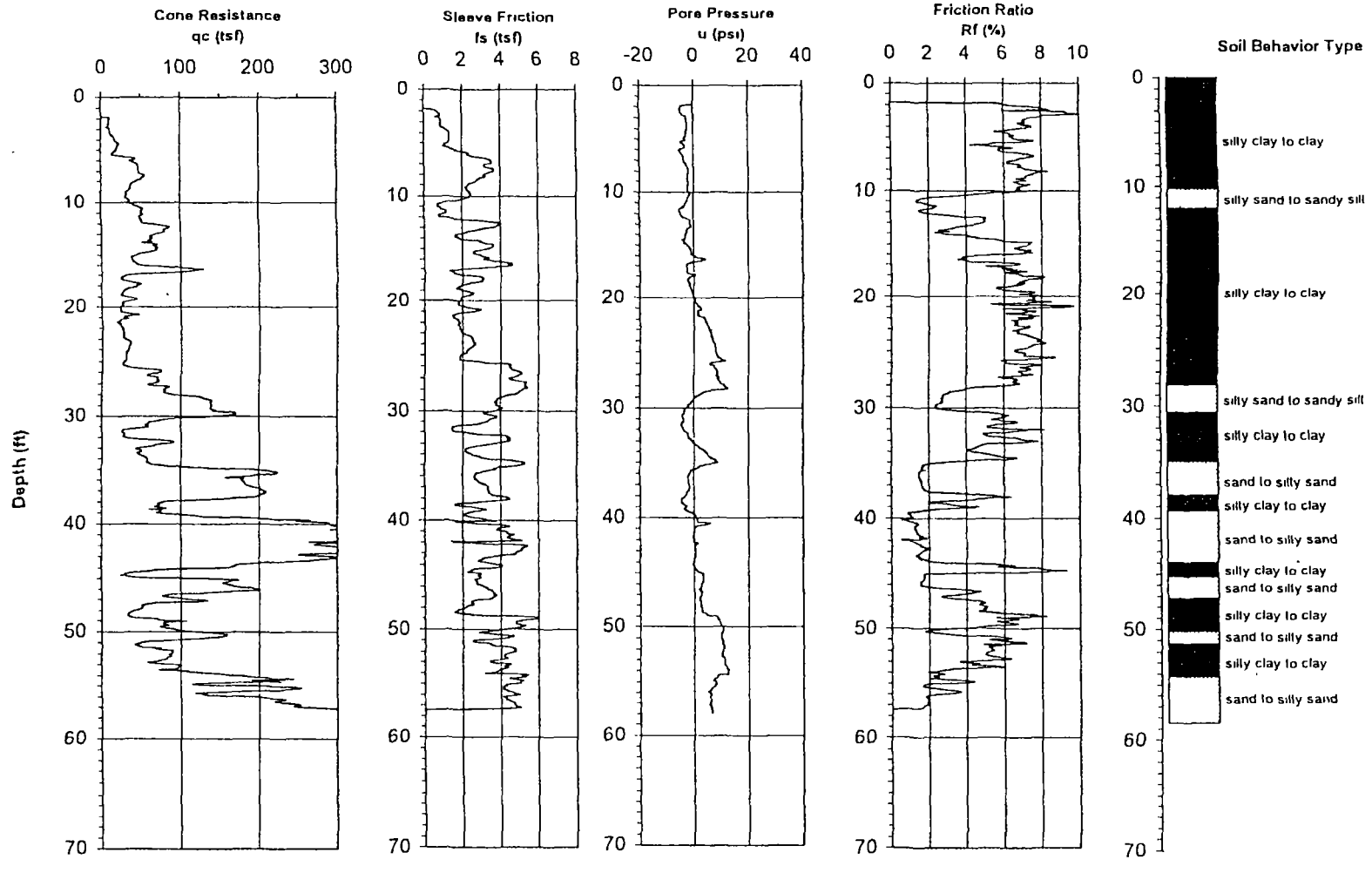
Location :	CPT-8	CPT Date :	4/4/00



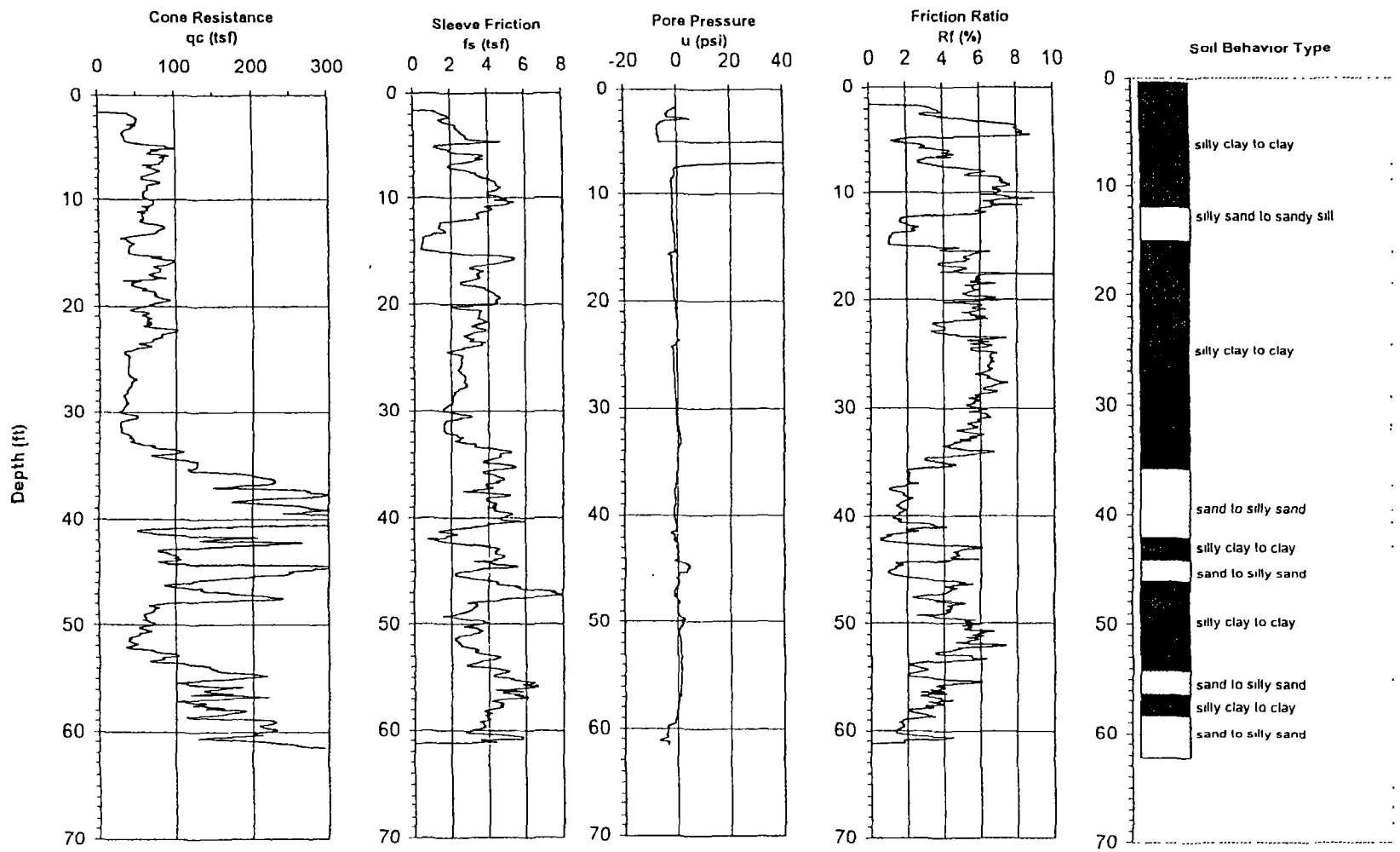
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-9	CPT Date :	4/5/00



KEHOE TESTING & ENGINEERING

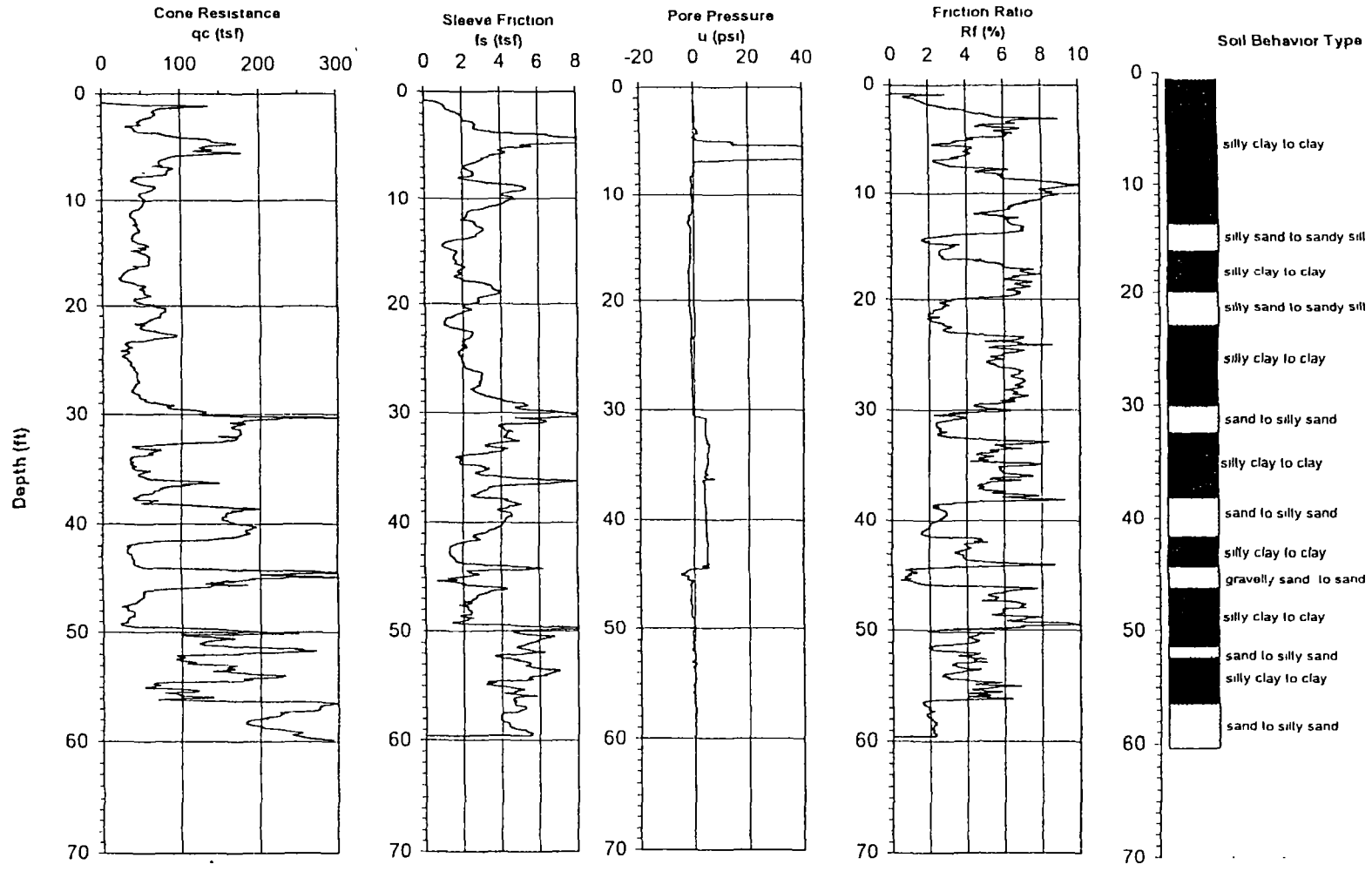
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-10	CPT Date :	4/6/00



PACCAR 04224

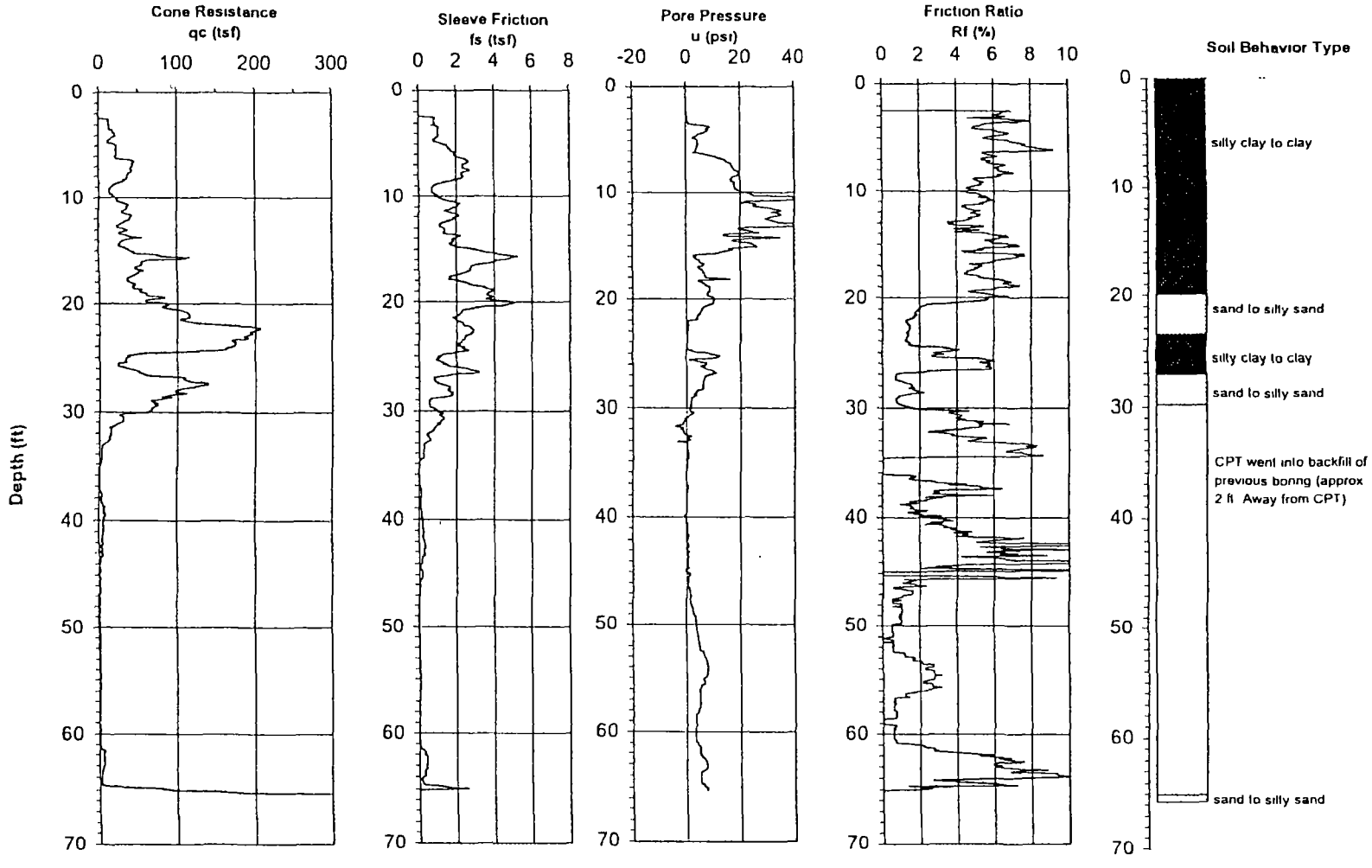
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-11	CPT Date :	4/6/00



KEHOE TESTING & ENGINEERING

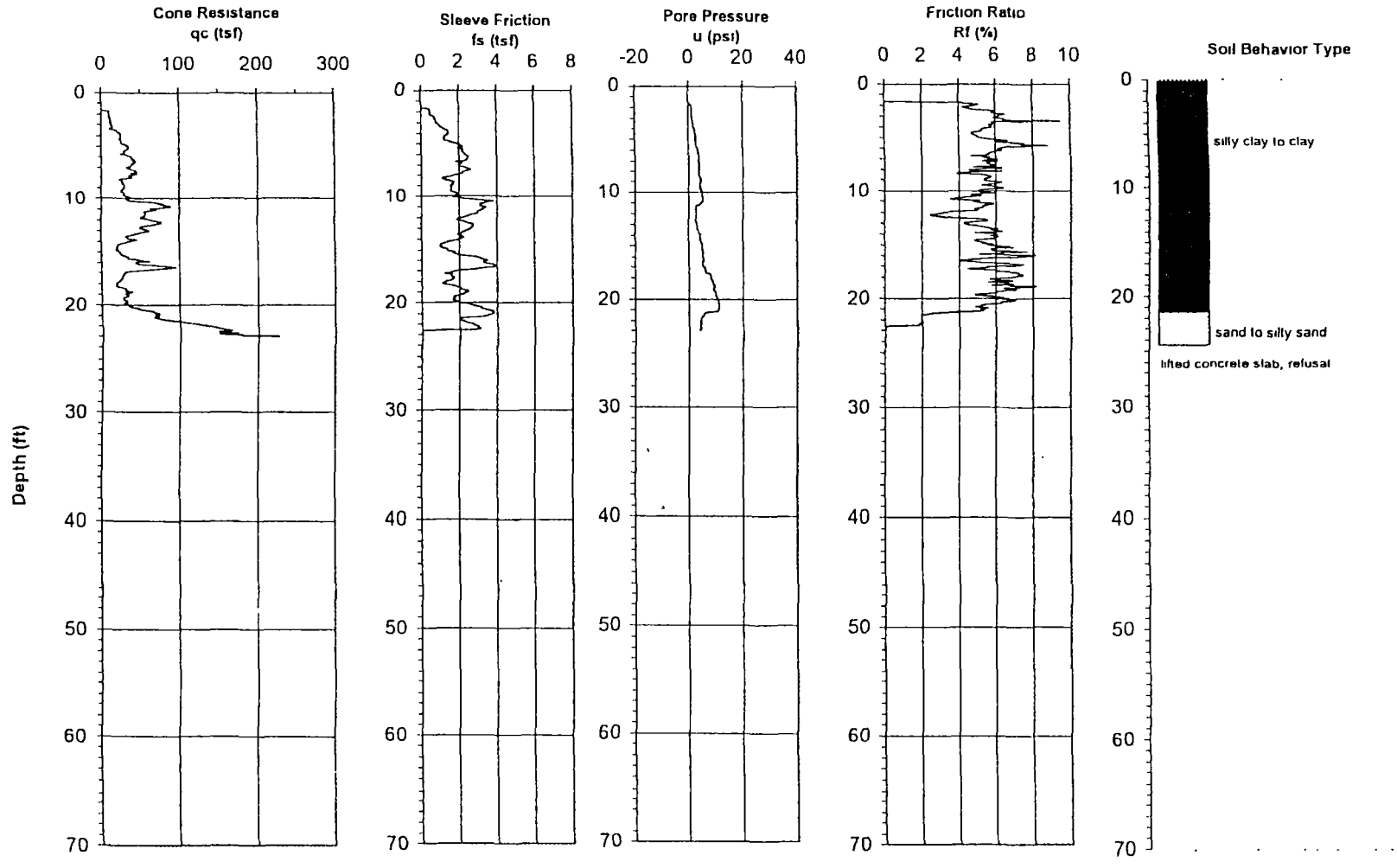
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-12	CPT Date :	4/10/00



PACCAR 04226

KEHOE TESTING & ENGINEERING

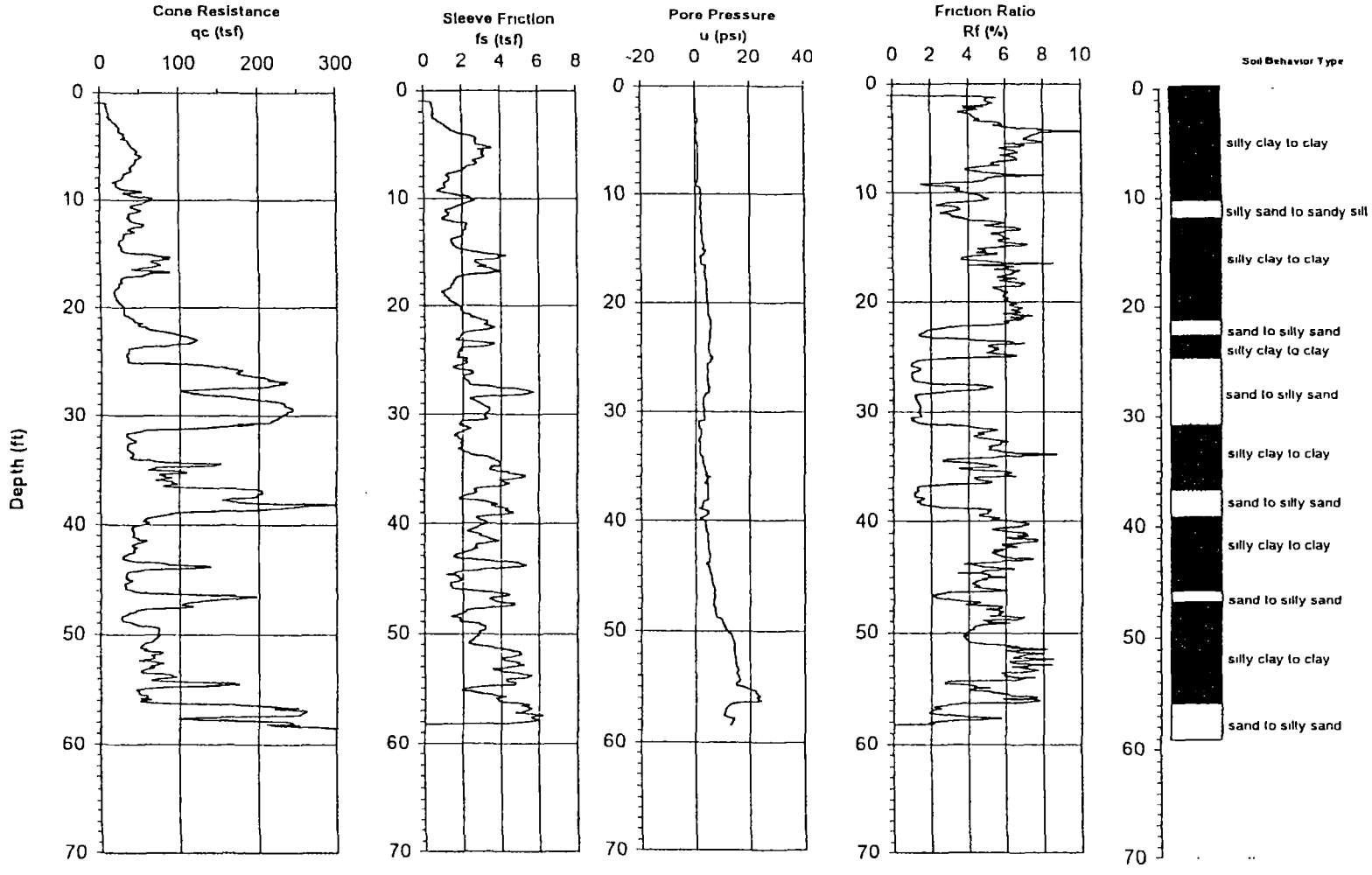
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-13	CPT Date :	4/10/00



PACCAR 04227

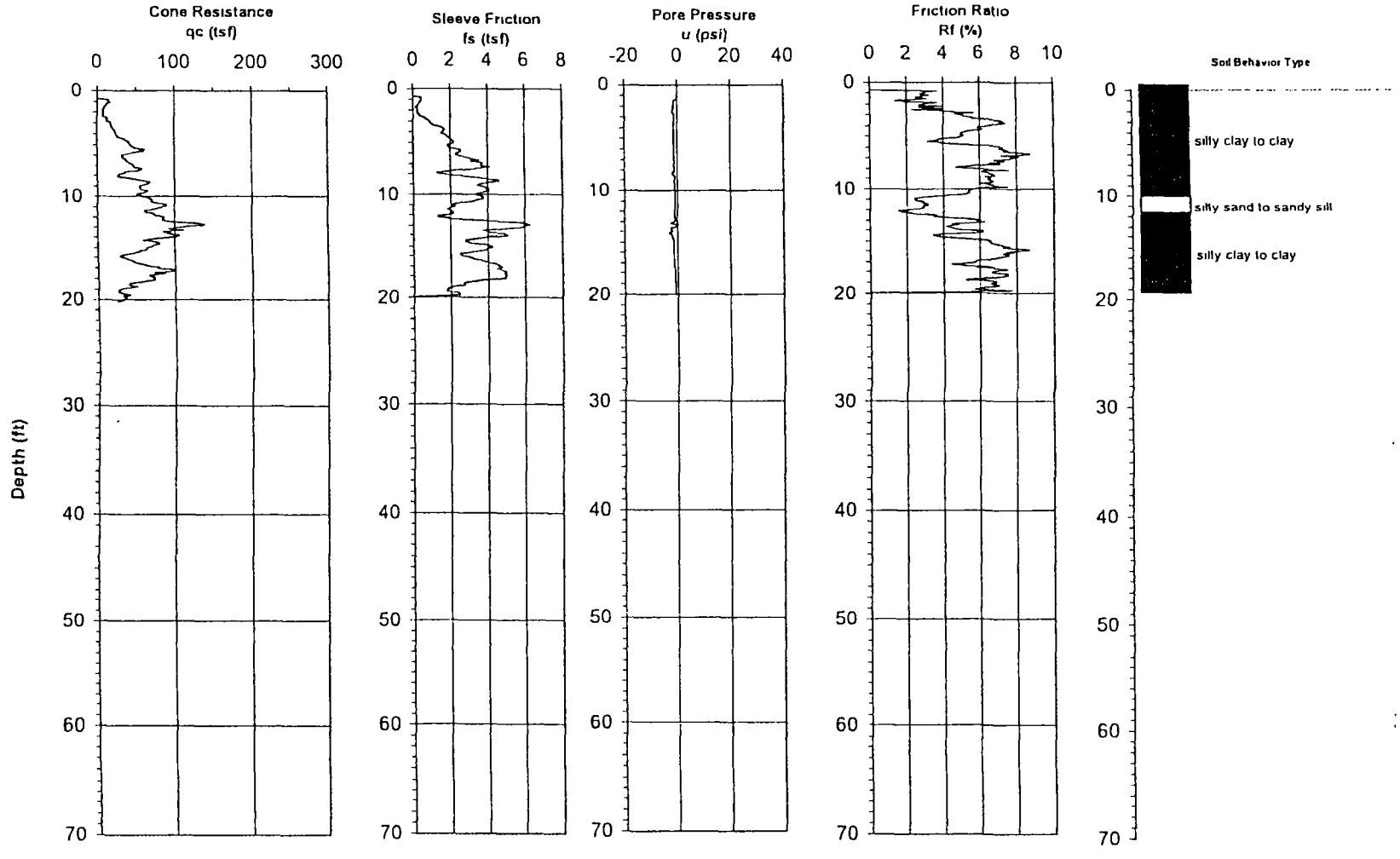
KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-14	CPT Date :	4/10/00



KEHOE TESTING & ENGINEERING

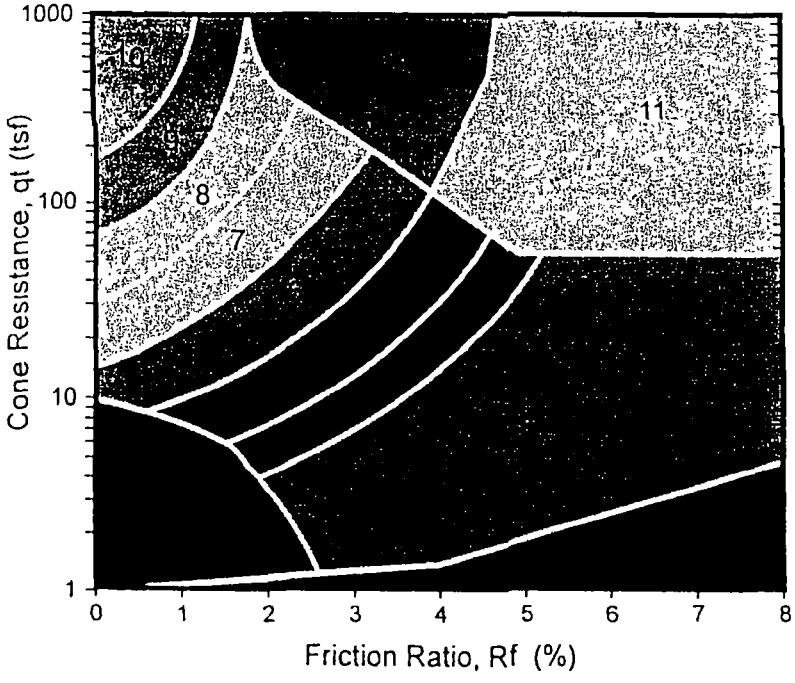
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-15	CPT Date :	4/6/00



KEHOE TESTING & ENGINEERING

CPT Classification Chart

(after Robertson and Campanella, 1988)



Zone	q_t/N_t	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

PACCAR 04230

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

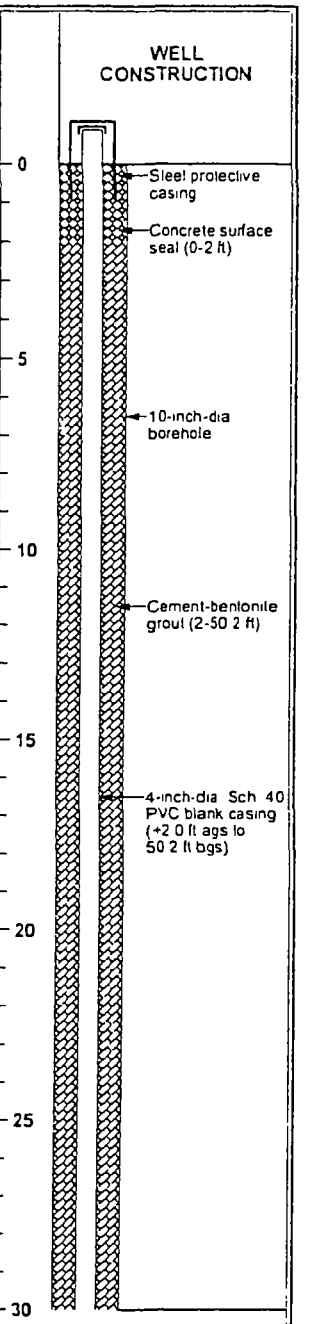
Project: PACCAR
Torrance, California

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)	Lithology	WELL CONSTRUCTION
30					Pale olive (5Y 6/3), silty fine SAND, uniform well-sorted, well-rounded grains, moist, medium dense, no odor, no discoloration (continued)	SM		10-inch-dia borehole
					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				Cement-bentonite grout (2-50 2 ft)
					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			4 inch-dia Sch 40 PVC blank casing (+2 0 ft ags to 50 2 ft bgs)
45	S	HCB-5-45'	13 12 14	0 / 0	Sugary texture			
					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				Hydrated medium bentonite pellets (50 2-53 2 ft)
					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				4-inch-dia stainless steel blank casing (50 2-55 2 ft)
								Lonestar #2/16 filter sand (53 2-65 2 ft)
60	S	HCB-5-60	7 18 14	0 / 4				4-inch-dia stainless steel screen, 0 010-inch slot (55 2-65 2 ft)
					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 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-5 / MW-5

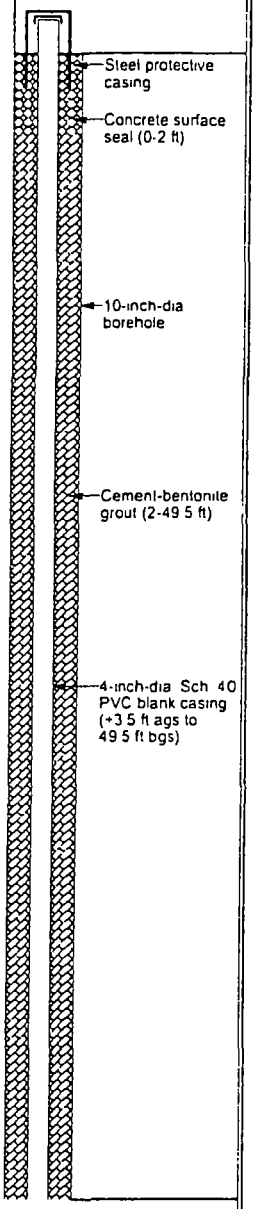
Sheet 2 of 2

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		

Lithology

WELL CONSTRUCTION



NOTES:

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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

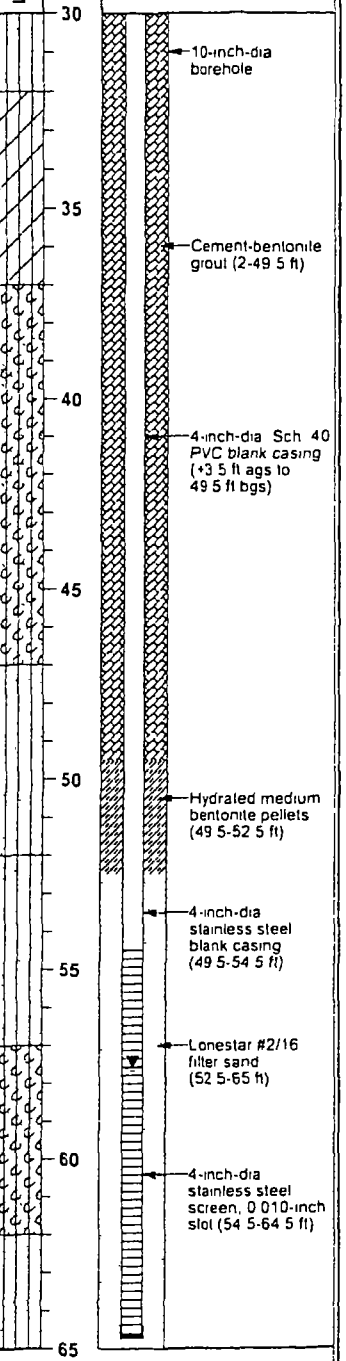
Project Number: 6905

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 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-6 / MW-6

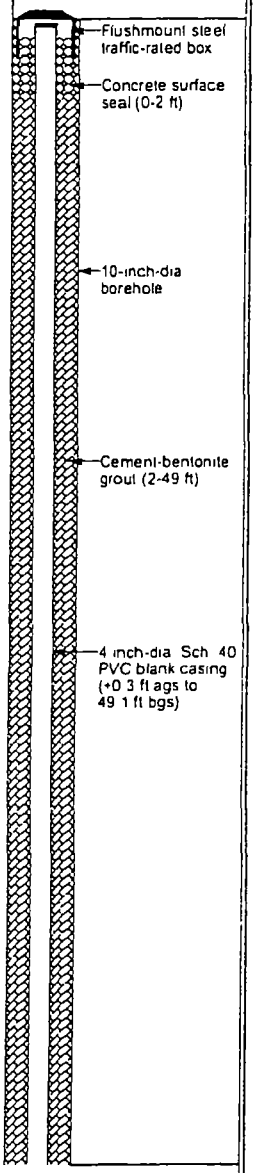
Sheet 2 of 2

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



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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 9/6/00

Project: PACCAR
Torrance, California

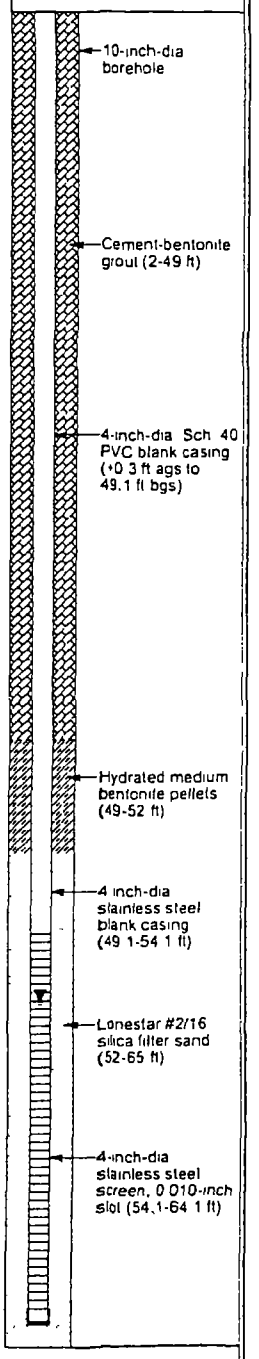
Project Number: 6905

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
	S	HCB-7-35'	11 20 21	0 / 4 8	Black (2 5Y 2/0), sandy SILT, lithology difficult to distinguish due to probable contamination, moist, hard, heavy hydrocarbon odor and discoloration	ML
35					Shell layer, chunks of consolidated shells	
					Becomes very stiff, with shell fragments throughout	
	S	HCB-7-40'	20 15 16	0 / 2 1		
40						
					Olive (5Y 4/4), sandy SILT, uniform, micaceous, moist, stiff, no odor, no discoloration	ML
	S	HCB-7-45'	7 7 8	0 / 2 4		
45						
					Olive gray (5Y 5/2), silty CLAY, low plasticity, red clay inclusions, micaceous, very moist, no odor, no discoloration	CI
	S	HCB-7-50'	11 10 11	0 / 0		
50					Silty sand lenses	
					Becomes olive (5Y 5/3), hard	
	S	HCB-7-55'	18 23 18	0 / 4 1		
55						
					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
	S	HCB-7-60'	6 8 10	0 / 5 8		
60						
	S	HCB-7-65	7 7 11	0 / 5 1	Boring terminated at 65 0 feet bgs	
65						



Report HC4+WELL File PACCARTO.GPJ 9/6/00

Project: PACCAR
Torrance, California

Project Number: 6905

Log of Boring HCB-7 / MW-7

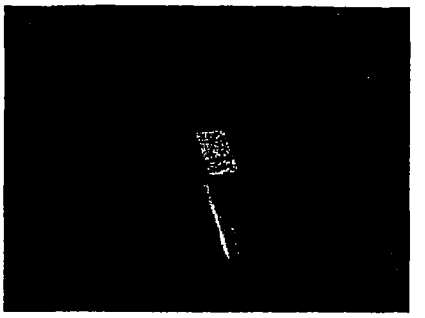
Sheet 2 of 2

HARTCROWSER

Appendix B

APPENDIX B
EN CORE PROCEDURES / FORMS

PACCAR 04239



Instructions for Sample Collection Using The Power Handle

1 The blue plate should be in place on the Power Handle (flanges should be pointing to the round end of the handle) A 5g sample will be collected when the plate is in place

2 Clip syringe into the Power Handle

3 Using the Power Handle, push the syringe into the soil to collect 5g sample

4 Unclip syringe from Power Handle and extrude 5g sample into vial
5 Repeat process for each additional vial

6 A single syringe can be used to collect sample aliquots for each of the three vials.

7 Mark each sample container with your sample identification Do not add any additional labels or tape to the pre-tared vials Store samples at 4°C VOCs must be analyzed within 14 days of collection

8 A fourth container needs to be submitted to the laboratory for percent total solids determination Fill the container provided to capacity If extractable organic analyses, i e , semi-volatiles, PNAs, or pesticides/PCBs will be performed, the fourth container should be a 4-oz glass jar

Note Methanol is a flammable substance If samples will be shipped to the laboratory via couriers such as UPS or Federal Express, DOT labeling requirements must be met

To meet DOT labeling requirements, the following statement must be affixed to the package
"This package conforms to the conditions and limitations specified in 49CFR(173.4."
The CFR reference is 49 – Transportation, Part 173 – Shippers, General Requirements for Shipments and Packaging, Section 173 4 – Small Quantity Exceptions In our opinion, the pertinent requirements of this reference are as follows

- The maximum quantity of material per inner receptacle is limited to thirty (30) mL
- Each inner receptacle is securely packed in an inside packaging with cushioning and absorbent material The inside packaging cannot react chemically with the material and needs to be capable of absorbing the entire contents of the receptacle *(Note the foam container in which the vials are placed meet these requirements)*
- The inside packaging is securely packed in a strong outside packaging *(Note the cooler meets this requirement)*

PACCAR 04240

- The gross mass of the completed package does not exceed 64 pounds.

An alternative to field preservation is the use of EnCore samplers (or equivalent) as collection and storage devices Samples collected in this device must be preserved by the laboratory or analyzed within 48 hours of collection

PACCAR 04241

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	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

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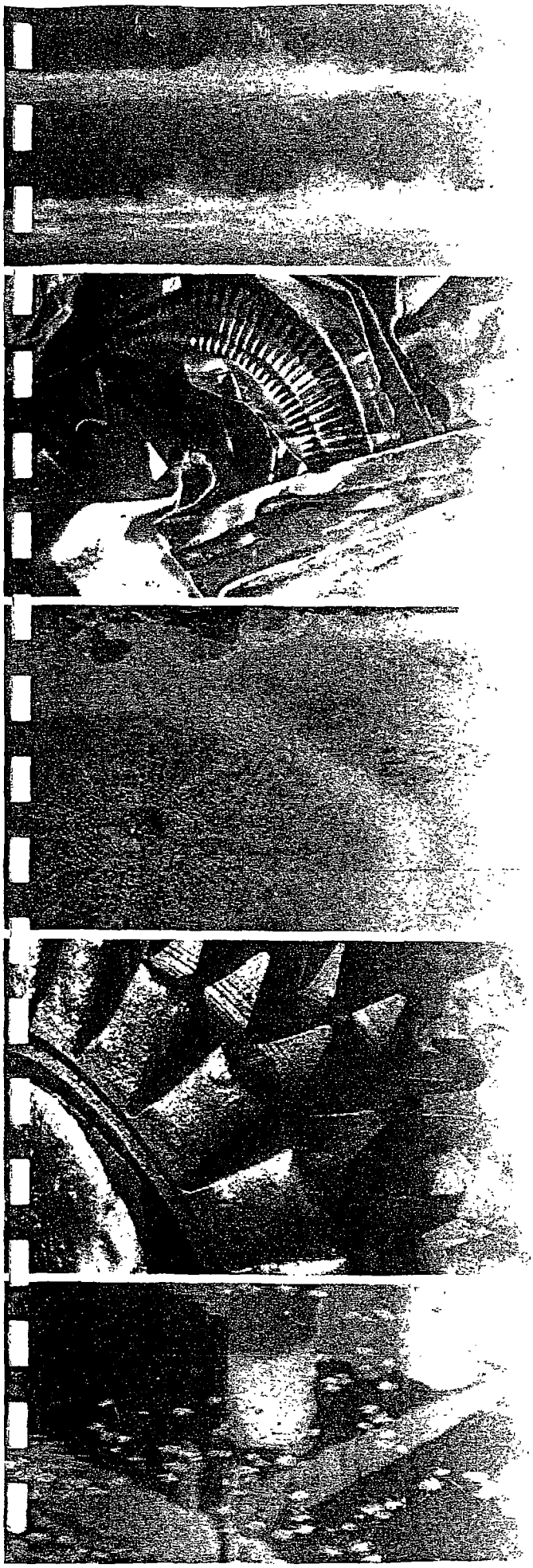

Clarifier Removal
Former Trico Facility
Torrance, California

Prepared for
PACCAR Inc

October 22, 2004
16170-00

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Former Trico Facility
Torrance, California

Denver

Prepared for
PACCAR Inc

Edmonds

October 22, 2004
16170-00

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CLARIFIER REMOVAL
FORMER TRICO FACILITY
TORRANCE, CALIFORNIA

1.0 INTRODUCTION

This report describes the clarifier removal performed for the former Trico Site in Torrance, California (Site).

A Work Plan, dated April 21, 2004, was developed based on previous work conducted at the Site and the discussions between PACCAR, Hart Crowser, and the RWQCB at a January 13, 2004, meeting. The purpose of the Work Plan was to remove a three-stage clarifier near the eastern edge of the Site, construct an area for storing drums and other waste that may be generated during future Site Investigation activities, and obtain additional data on soil conditions at the Site with the goal of obtaining RWQCB closure for the soil. Specifically the work included:

- Removal of a three-stage clarifier and disposal of approximately 25 tons of impacted soil from a 30- by 30-foot by 3-foot-deep excavation at the eastern edge of the Site;
- Preparation of a dedicated, enclosed secure storage area; and
- Collection of data to support a request for Site near-surface soil closure as presented at the conclusion of this report.

This soil removal report summarizes the work performed, the procedures used, the data obtained, and a discussion of the results and conclusions.

2.0 SITE BACKGROUND

Clarifier (Southeast). At the time of removal, the clarifier had not been in use for many years. The historical use is unknown and unconfirmed. Because of the unknowns, this investigation was designed to completely remove the hard surface pavement in the area and all other structures and anomalies.

As reported in the Additional Assessment report (September 2004), in April 2000 Hart Crowser installed a soil Cone Penetrometer (**CPT-13**) to determine the potential range of suspected contamination in the area of the clarifier. No constituents were detected in the soil column above residential or industrial PRGs in CPT-13.

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Also, as part of the Additional Assessment performed concurrently with the Clarifier removal project, boring **BL-25** was installed immediately adjacent to the former clarifier. Soil samples were collected at 5-foot-depth intervals until groundwater was encountered. No constituents were detected in the soil column above residential or industrial PRGs.

Cesspool. In close proximity to the Clarifier in the southeast, it was reported that B & W and TRICO may have utilized a cesspool on the east side of Building A to dispose of wastewater.

In 1987, SCS conducted a round of sampling in the southeast corner near the former clarifier and cesspool by installing **BH-7, BH-8, BH-9,** and **MW-1**. No constituents were detected in the soil columns above residential or industrial PRGs for soil samples from BH-7, BH-8, BH-9, or MW-1.

In 1998, Hart Crowser permanently closed and sealed MW-1 because it was improperly installed in 1987. SCS also installed a boring BH-6 and their report suggested that a high level of 1,2-dichloroethane was detected in one of six borings and only in the sample taken at 40′ bgs. The current PRG for 1,2-DCA is 600 ug/kg and no other sample in BH-6 or in any other boring or well has ever come within a fraction of the PRG. Most sample readings were non-detect. It appears that the BH-6 (40-foot) sample may have been anomalous since it was not repeated, duplicated, or detected above trace levels in any other sample collected and analyzed in the past 10 years.

In April 2000, Hart Crowser installed soil Cone Penetrometer **CPT-12, CPT-13,** and **CPT-14**, to determine the potential range of suspected contamination. No constituents were detected in the soil column above residential or industrial PRGs in CPT-12, CPT-13, or CPT-14.

In August 2000, Hart Crowser installed **MW-7** in the same general area with the well screened in the first water-bearing unit. The soil boring data for MW-7 showed no constituents of concern in the soil column until reaching the first water-bearing unit at a depth of 58 feet below ground surface. At 55 feet, TCE was detected at 18 ug/kg, the only detection in the soil column. Groundwater samples in the first water-bearing unit at 58 feet contained chlorinated VOCs.

In December 2002, Hart Crowser installed boring BL-15 directly adjacent to the Cesspool. No constituents were detected in the soil column above residential or industrial PRGs in the soil samples from **BL-15**.

3.0 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

4.0 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 removal of the clarifier and impacted soils, and construction of a secure storage area. 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 other 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.

5.0 CLARIFIER REMOVAL AND EXCAVATION

A previously abandoned clarifier located in the southeast corner of the Site and potentially impacted soil were to be removed under the work order of April 21, 2004. Hart Crowser personnel observed the clarifier removal project and guided the excavation in the southeast corner of the site where there could be a potential for impacted soil. Hart Crowser 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). Field PID readings of the excavated soil and samples collected for analysis were minimal ranging from 0 parts per million (ppmv) to 3 ppmv. These readings may have been from the excavation equipment operating in the area.

A temporary chain-link fence surrounding the proposed excavation was installed to secure the Site prior to construction. Crates and pallets from a 30- by 30-foot area adjacent to and surrounding the clarifier were removed and stored at another location within 200 feet of the work area. The concrete along the perimeter of the excavation area and clarifier was saw-cut. A 30- by 30-foot slab, up to 6 inches thick, along with associated rubble was removed. The pavement was disposed of at a pre-approved disposal facility. The subsurface soil in the area was removed to a depth of 1 foot. The excavated soil was stockpiled for future characterization sampling, waste profiling, and off-site disposal.

Extensive effort was made to remove the clarifier in one piece and in as good condition as possible; however, Hart Crowser personnel determined removal of the entire clarifier body was not feasible due to the presence of a 12-inch water main in close proximity to the base of the clarifier. The top and sides of the clarifier were removed. Mr. Gerardo Abrica of the County of Los Angeles Department of Public Works was contacted regarding the water main's close proximity to the clarifier base. Mr. Abrica confirmed that the bottom section of the clarifier should be left in-place and that no additional soil samples were required. The County of Los Angeles issued a closure inspection report to on May 6, 2004 and a No Further Action letter on September 23, 2004 (Appendix F).

The clarifier outlet was capped per City of Torrance requirements. The excavation was backfilled with clean imported material in one 12-inch-thick lift and compacted to 90 percent of the maximum density (Appendix C). Once backfilled, the excavation was covered with 4 inches of concrete reinforced with No. 4 rebar on 18-inch centers. A fence was erected around the pad to complete the secured storage area.

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6.0 VERIFICATION SOIL SAMPLING AND ANALYSIS

Upon completion of the clarifier assessment and soil removal activities, soil samples were collected under the direction of a Hart Crowser registered geologist. Chain of custody protocols were followed during sampling handling and shipment to the analytical laboratories.

Six soil samples were collected from the excavation using Quick Syringes in accordance with EPA Method 5035 for VOCs. The soil samples were collected 2 feet beneath the bottom of the excavation (approximately 3 feet beneath ground surface) using a hand-driven sampler. Two samples were collected from the inlet and outlet of the clarifier (CL-01 and CL-02). Four soil samples (CL-03, CL-04, CL-05, and CL-06) were collected from the base of the excavation. These samples were analyzed for VOCs (EPA Method 5035/8260) and TPH (EPA Method 8015M). The soil samples were submitted to Jones Environmental, Inc. (Fullerton, California) a state-certified hazardous waste stationary laboratory for VOC and TPH analysis. Figure 3 shows the sample locations and analytical results.

Two samples were collected from the stockpile (SP-CL-01 and SP-CL-02) and were analyzed for VOCs, semivolatile organic compounds (SVOCs; EPA Method 8270), TPH, and CAM 17 Metals (EPA 6010). Stockpile soil samples were sent to Advance Technology Laboratories (Long Beach, CA) a state-certified hazardous waste laboratory for analysis.

Summary data sheets for these eight soil samples and analytical laboratory reports are presented in Appendix B. A brief summary of the analytical results is provided in Table 2.

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Table 2 - Summary of Analytical Results from Clarifier Excavation

Sample	Location	TPH in mg/kg	TCE in µg/kg	PCE in µg/kg
CA Preliminary Remediation Goal				
Industrial Soil		N/A	110	3,400
Residential Soil		N/A	53	1,500
CL-01	Inlet to Clarifier	10 U	1 U	1 U
CL-02	Outlet from Clarifier	10 U	1 U	1 U
CL-03	Base of Excavation	10 U	1 U	1 U
CL-04	Base of Excavation	10 U	1 U	1 U
CL-05	Base of Excavation	10 U	1 U	13
CL-06	Base of Excavation	10 U	1 U	4

U = Not detected at detection limit indicated.
N/A = None available.

Of the six soil samples collected from the excavation only trace concentrations of PCE, at least two orders of magnitude less than the PRGs for both residential and industrial soils, were only detected at CL-05 and CL-06. The other samples contained no evidence of contamination. No other constituents were detected within 4 feet of the soil surface horizon above residential or industrial PRGs for soil samples from CL-01, CL-02, CL-03, CL-04, CL-05, and CL-06.

The analytical results from the soil samples collected from the excavation and the stockpile samples indicated there was no surface contamination associated with the clarifier and any trace concentrations detected were removed during excavation.

7.0 SOIL DISPOSAL

Approximately 25 tons of soil and broken concrete were removed from the clarifier site (Figure 3). The waste manifests and trip tickets for disposal are presented in Appendix E and included the impacted soil excavated from BL-06. Clean imported material was used to backfill the excavation.

Stockpile sampling and analysis were conducted for waste characterization and profiling, followed by transportation and disposal to a licensed, pre-approved disposal facility. 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

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non-hazardous waste at the Antelope Valley Landfill (Palmdale, CA), which had been approved by PACCAR. Hart Crowser as PACCAR's authorized representative signed the waste manifests.

8.0 PREPARATION OF A SECURED STORAGE AREA

Upon completion of the clarifier removal and backfilling activities, a 4-inch-thick concrete (3000 psi) pad was placed over the 30- by 30-foot excavated area. The pad was reinforced with No. 4 re-bar, 18 inches O.C. Fence post receptacles were installed for the installation of a 120-foot-long, 6-foot-high fence with a 12-foot-wide gate for forklift access.

9.0 CONCLUSIONS

In the original Work Plan, the clarifier was to be removed. However, a 12-inch water main discovered beneath the clarifier prevented it from being entirely removed without potentially damaging the main. Consequently, The County of Los Angeles approved leaving the bottom portion of the clarifier in-place. The top and sides were removed.

Concrete and asphalt surfacing was removed along with a 6-inch top course. This initial removal was followed by further excavation of a 30- by 30-foot area excavated to a depth of 12 inches adjacent to the clarifier. Approximately 25 tons of soil were excavated and disposed of as non-hazardous waste to the Antelope Hills Landfill.

Based on sampling during clarifier closure, the soils in the southeast corner of the site are clean and qualify for surface soil clean closure. The six final excavation soil samples were analyzed for VOCs (EPA Method 5035/8260) and TPH (EPA Method 8015M). Only two samples showed trace concentrations of PCE, at least two orders of magnitude less than the PRGs for both residential and industrial soils, were detected at CL-05 and CL-06. The other samples contained no evidence of contamination. No constituents were detected within 4 feet of the soil surface horizon above residential or industrial PRGs for soil samples from CL-01, CL-02, CL-03, CL-04, CL-05, and CL-06.

The analytical results from the soil samples collected from the excavation and the stockpile samples indicated that there was no surface contamination associated with the clarifier and any trace concentrations detected were removed during excavation. With the results of the Additional Assessment for the southeast area of the site, it is unlikely that activities in the southeast corner

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of the site, at the surface or at depth, have ever been a source of contamination to the soil or groundwater. The only contamination that has been identified in the area is at the groundwater interface and appears to be caused by capillary effects at the groundwater interface. It is suspected that an upstream source originates off site from the former Amoco, Lawson Chemical, or Del Amo trenches.

With submittal of this report, PACCAR Inc requests closure for soils in the southeast corner of the site.

10.0 REFERENCES

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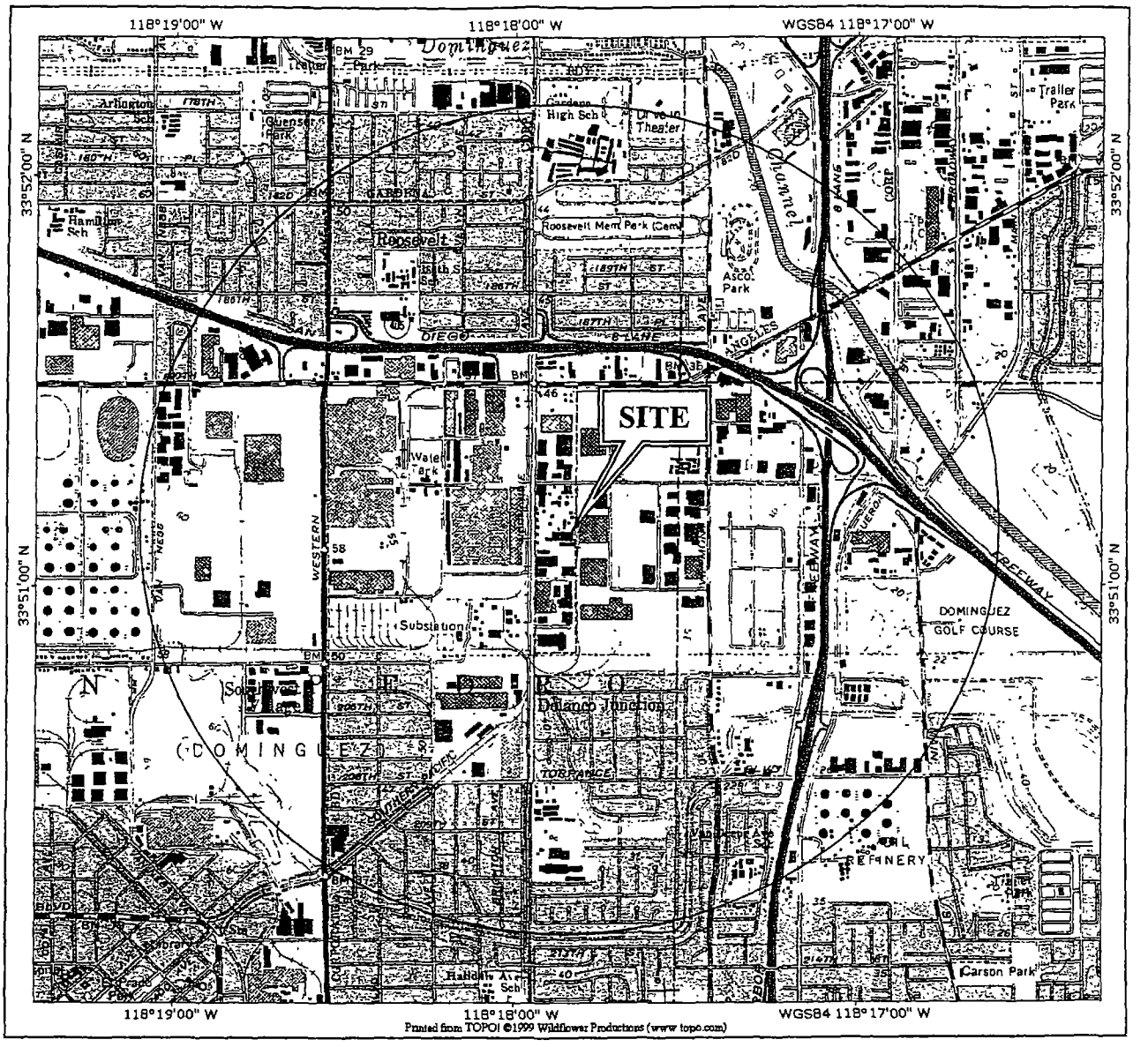
F:\docs\jobs\1617000\Clarifier Excavation Report doc

PACCAR 04269

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

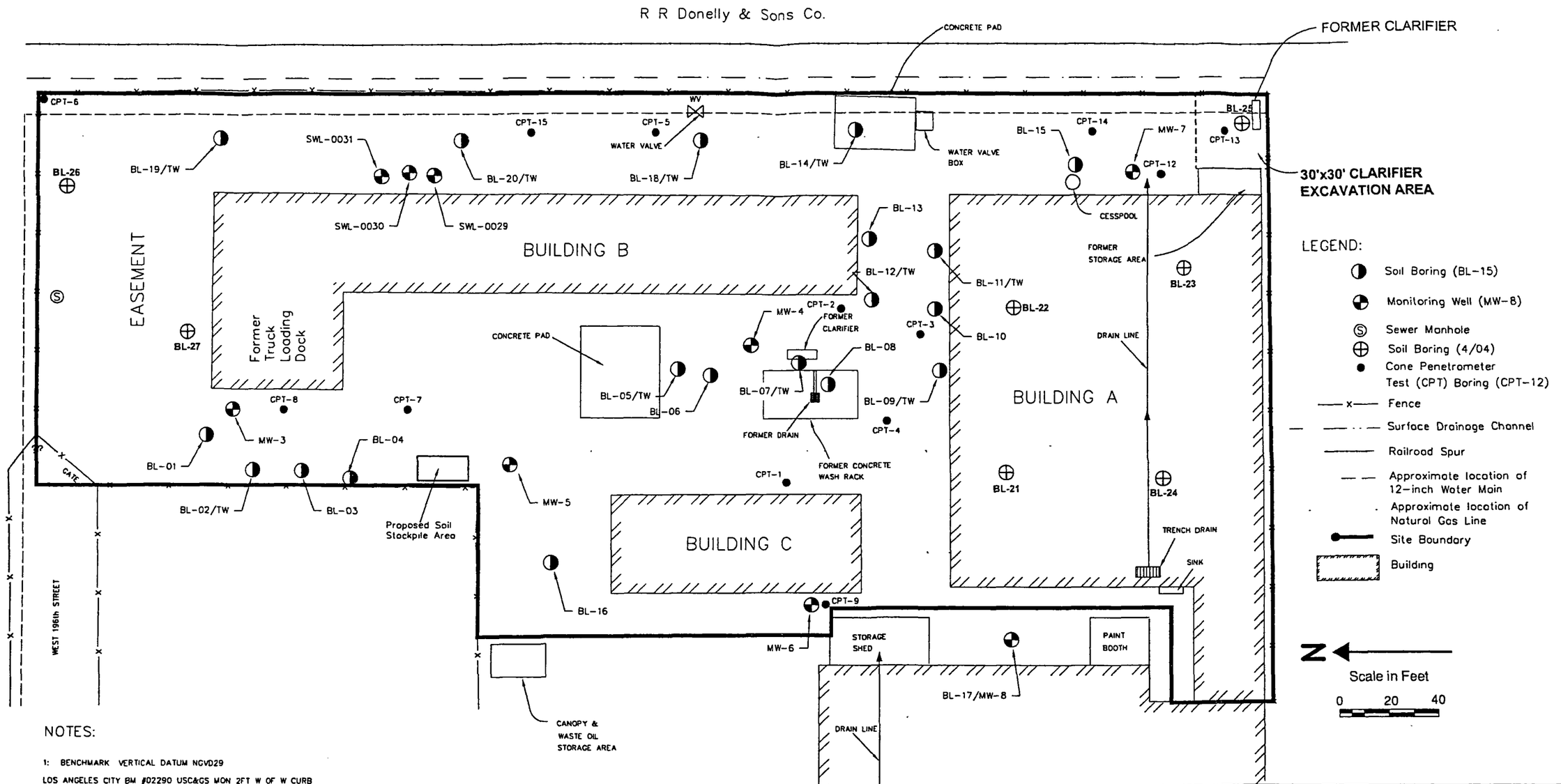
HARTCROWSER

PROJECT: Paccar Additional Assessment
1206 W. 196 th Street, Torrance, CA

Figure 1. Vicinity Map

Project No :	Date:
161710-00	9/24/04

1617100AA CDR CAS 7/7/04



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

5 CPT-10 and CPT-11 off Plan to west

HARTCROWSER

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

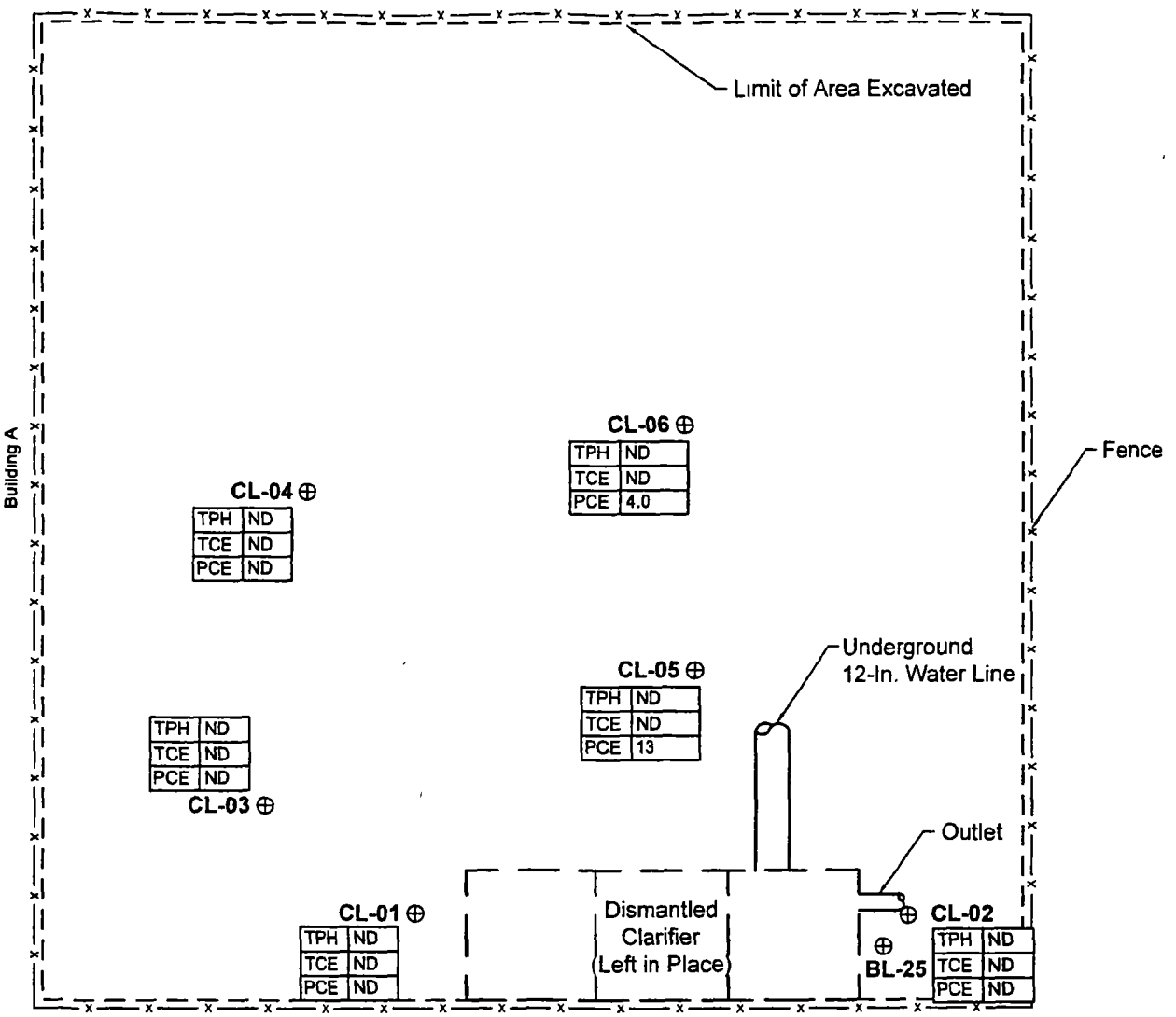
Date: 10/04

Job No.: 16170-00

Project: Paccar Clarifier Removal

1617000-001 DWG ABJ 10/25/04

Figure 2



CL-01 ⊕ Sample Location and Number

—x— Property Boundary Fence

— — — Limit of Excavation

Constituent

Concentration

TPH = Total Petroleum Hydrocarbon in mg/kg
TCE = Trichloroethene in ug/kg
PCE = Tetrachloroethene in ug/kg
ND = Not Detected

N

Approximate Scale in Feet

0 2.5 5

HARTCROWSER

PROJECT: PACCAR CLARIFIER REMOVAL

Figure 3: Excavation Area and Sample Location Plan

HC PROJECT NO.: 16170-00 | DATE: 10/04

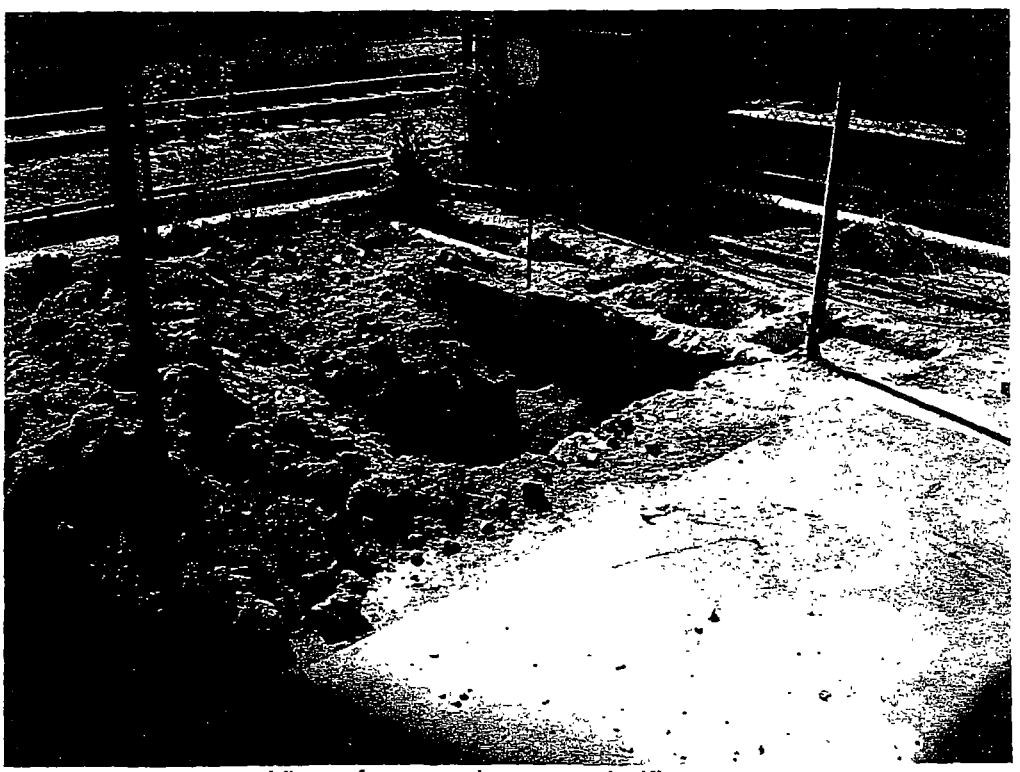
1617000-002 DWG ABJ 10/25/04

APPENDIX A
PHOTOGRAPHS

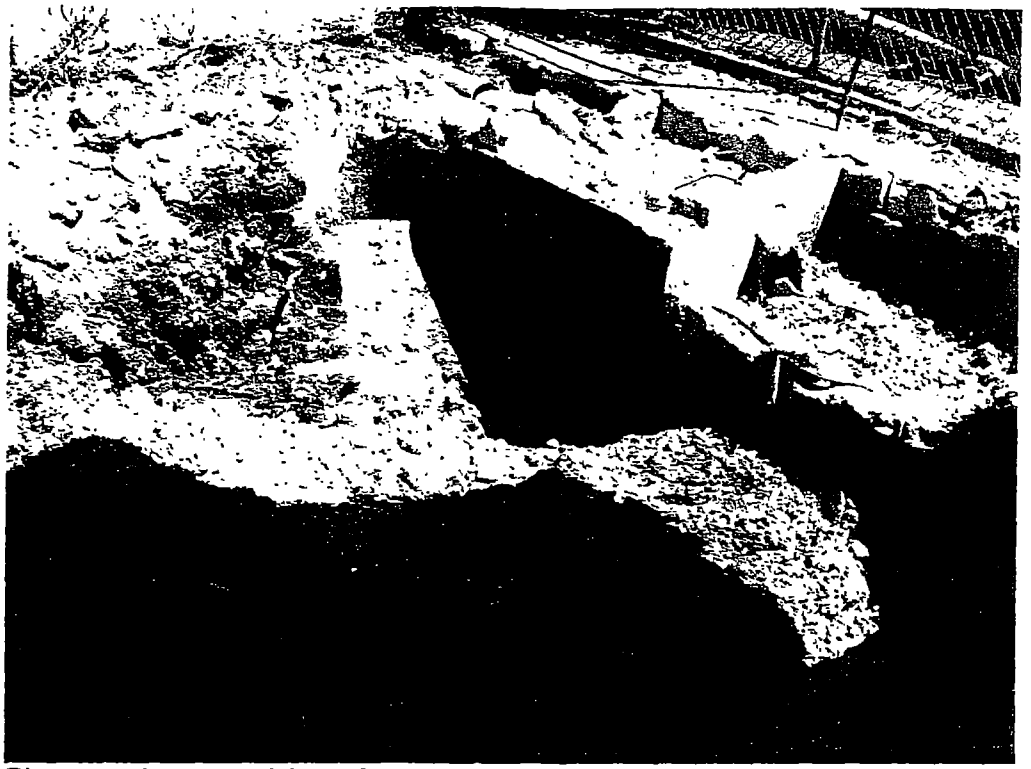
Photograph 1: View of excavation near clarifier.

Photograph 2: View of above-ground concrete clarifier.

Photograph 3: View of three stage clarifier.

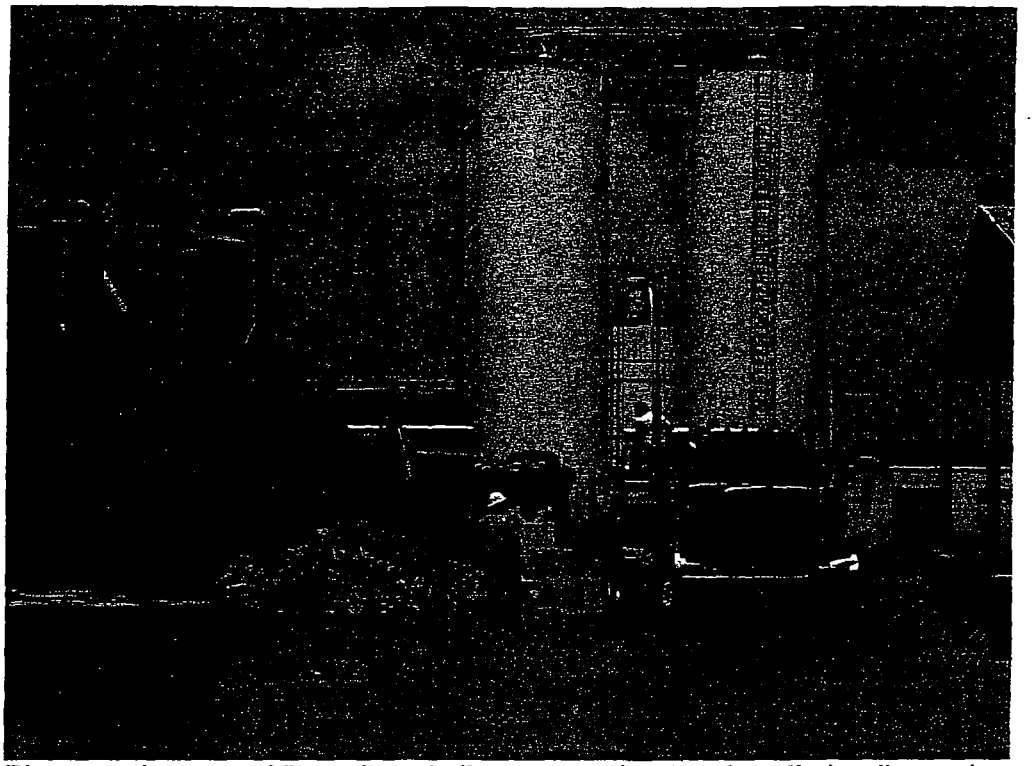


Photograph 4: View of excavation near clarifier.



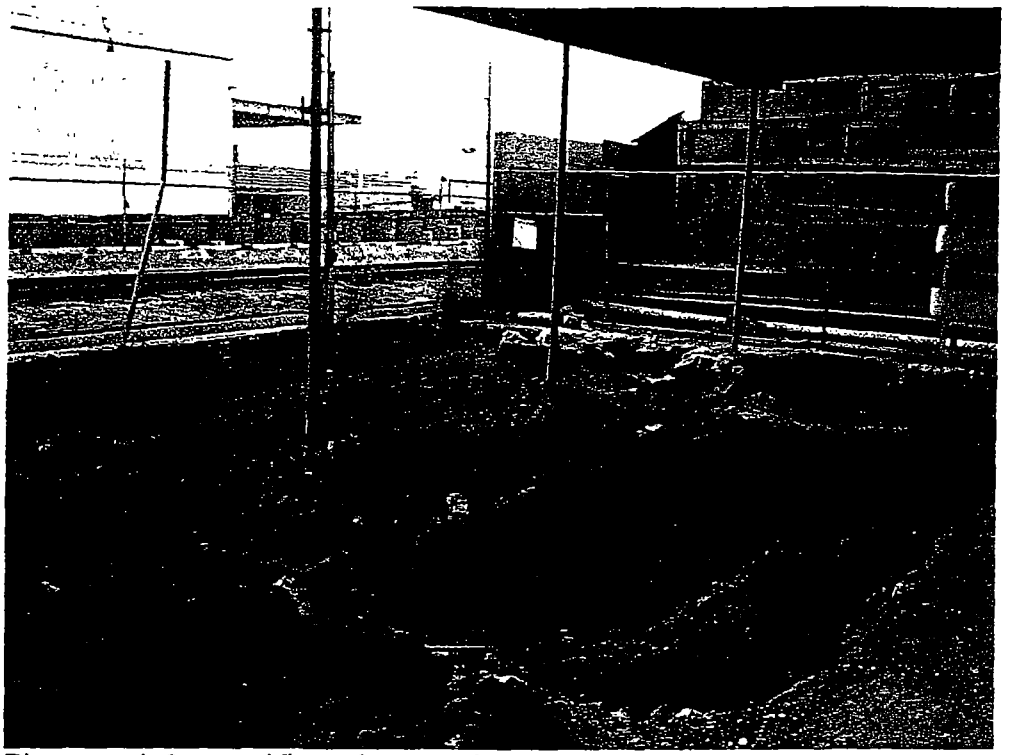
Photograph 5: View of excavation near clarifier.

Photograph 6: View of excavation beneath shed near clarifier.

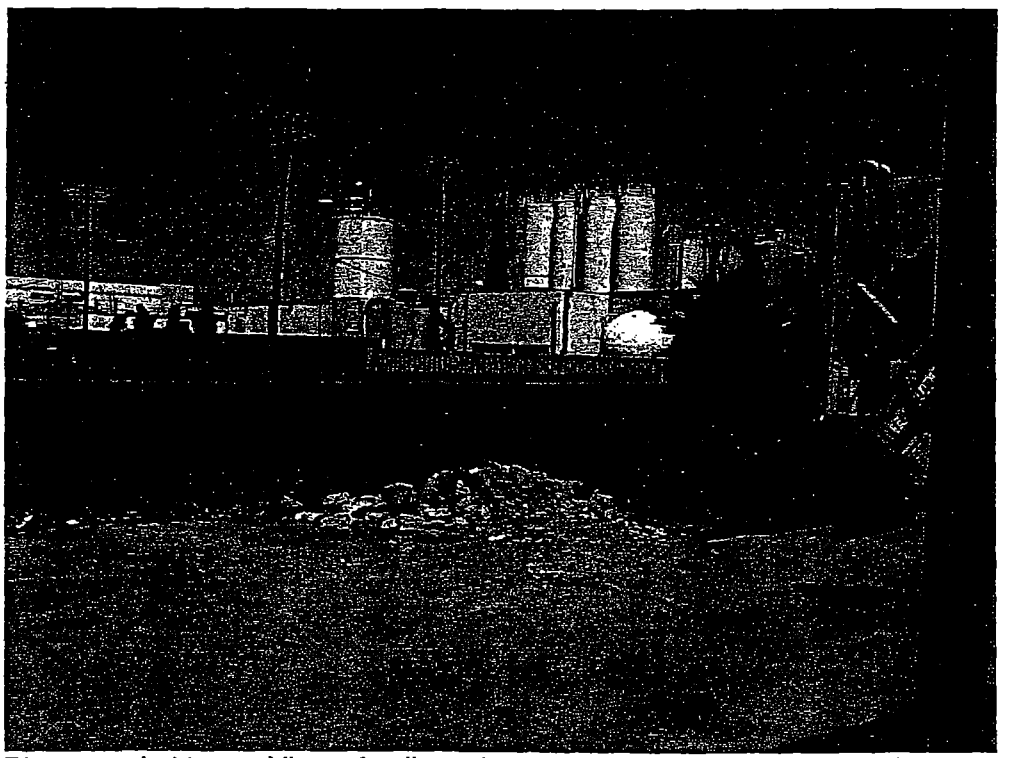


Photograph 7: View of stockpile concrete loading for off-site disposal.

Photograph 8: View of clarifier inlet.

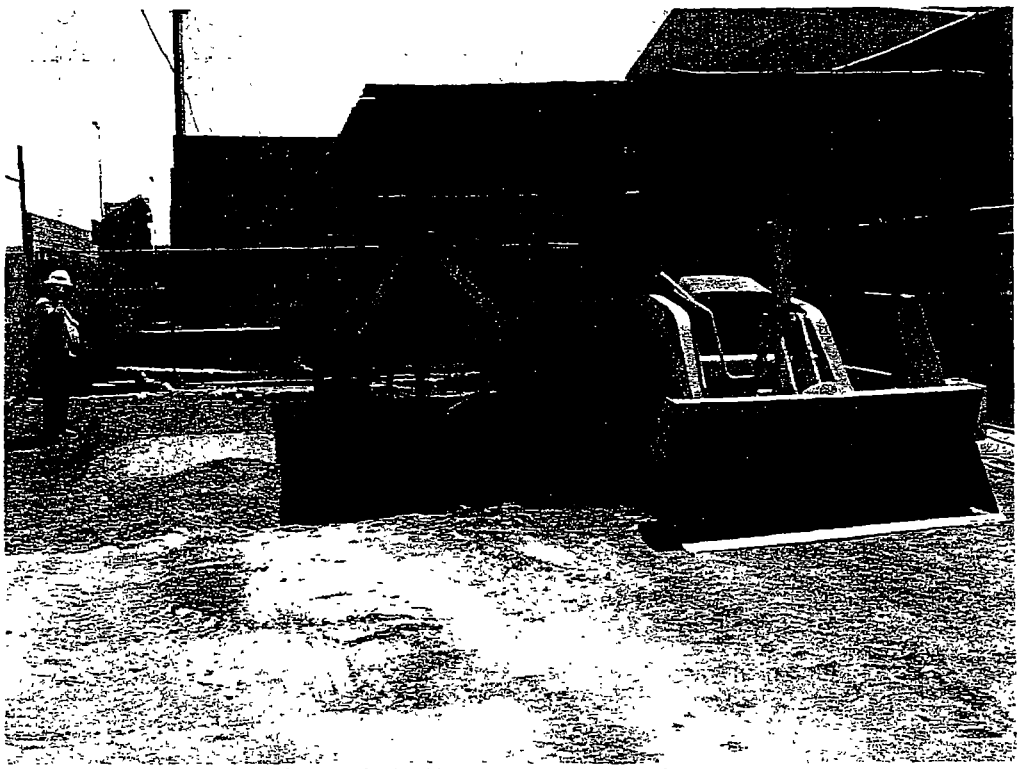


Photograph 9: View of excavation.



Photograph 10: View of soil stockpile from clarifier area excavation.

Photograph 11: View of backfilling of clarifier area excavation.



Photograph 12: View of clarifier area compaction.

APPENDIX B
SUMMARY DATA SHEETS

Table B-1 Summary of Clarifier Excavation Analytical Results
Former Trico Facility
Torrance, CA

Sample ID	Sample Location	Sample Depth (feet bgs)	Date Sampled	Analyte: VOCs by US EPA Method 5053B/8260B in ug/kg		TPH-CC by US EPA Method 8015M in mg/kg														
				Tetrachloroethene (Tetrachloroethylene)	All Others	C6-C7	C8-C9	C10-C11	C12-C13	C14-C15	C16-C17	C18-C19	C20-C23	C24-C27	C28-C31	C32-C35	C38-C39	C40-C43	C44+	TPH (Total)
						<----Gasoline (C6 - C12)--------->														
						<----------Deisel (C10 - C20)---------->														
						<-Lube Oils (C16 - C20)->														
						Solids (+C20)---------->														
U.S. EPA Region 9 PRGs dated 10/01/02		(Industrial Soil)		3,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CL-01	Clarifier Inlet	4	05/10/04	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
CL-02	Clarifier Outlet	4	05/10/04	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
CL-03	10' Northwest of the Clarifier Inlet	4	05/10/04	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
CL-04	Central Area under Shed	4	05/10/04	<1	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
CL-05	6' North of the Clarifier	4	05/10/04	**13**	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
CL-06	14' North of the Clarifier	4	05/10/04	**4.0**	<1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Notes

Bold values indicates detections
CL - Clarifier
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
mg/kg - milligrams per kilogram
bgs - below ground surface

Hart Crowser
1617000/Table B-1 Soil Data Clarifier Excavation.xls

Table B-2 Summary of Stockpiles Analytical Results
Former Trico Facility
Torrance, CA

Sample ID	Sample Location	Date Sampled	ANALYTE: VOCs by US EPA Method 5035B/8260B in ug/kg														ANALYTE: TPH-CC by US EPA Method 8015M in mg/kg						ANALYTE: SVOCs by US EPA Method 8270C in ug/kg					ANALYTE: Title 22 Metals by US EPA Method 6010B/7000 Series in mg/kg															
			Butylbenzene (n-Butylbenzene)	sec-Butylbenzene	Isopropylbenzene (Cumene)	Ethylbenzene	4-Isopropyltoluene	Naphthalene	Styrene	Tetrachloroethene (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 (Cancer Endpoint)	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury (EPA Method 7471)	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
US EPA Region 9 PRGs dated 10/01/02	Industrial Soil		240,000	220,000	2,000,000	20,000	NA	190,000	NA	3,400	520,000	170,000	70,000	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190,000	NA	NA	1.6	67,000	1,900	NA	450	1,900	41,000	750	0	5,100	20,000	5,100	5,100	NA	7,200	100,000
SP-CL-01	Stockpile near northern gate	05/11/04	<1	<1	<1	<1	<1	<1	<1	8.3	<1	<1	<1	3.4	<1	<1	<10	<10	<10	<10	<10	<10	<330	<330	<330	<330	<330-1600	<1	2.4	130	<1	<1	21	11	14	24	<0.1	<1	16	4.5	<1	<1	44	140
SP-CL-02	Stockpile near excavation (SE corner)	05/11/04	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3.7	<1	<1	<10	<10	<10	<10	<10	<10	<330	<330	<330	<330	<330-1600	<1	4.1	85	<1	<1	14	7.3	14	17	<0.1	<1	10	3.2	<1	<1	28	89

Notes

CL - Clarifier

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),

VOCs - Volatile Organic Compounds

SVOCs - Semi-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

* Dilutions for these compounds; first number for all others

PACCAR 04283

ATTACHMENT B-1
CERTIFICATES OF ANALYSIS
JONES ENVIRONMENTAL, INC. - VOCS AND TPH DATA

Jones Environmental, Inc.

Testing Laboratories

JONES ENVIRONMENTAL

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

LABORATORY REPORT

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
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

P.O. Box 5387 • Fullerton, CA 92838
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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

	Sample ID Concentration (mg/Kg)					
Carbon Chain Range	CL-01	CL-02	CL-03	CL-04	CL-05	CL-06
C6-C7	ND	ND	ND	ND	ND	ND
C8-C9	ND	ND	ND	ND	ND	ND
C10-C11	ND	ND	ND	ND	ND	ND
C12-C13	ND	ND	ND	ND	ND	ND
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	ND
Surrogate Recovery Hexacosane % **Acceptance Range: 65% - 125%**	119%	77%	76%	75%	76%	78%
Dilution Factor	1	1	1	1	1	1
Practical Quantitation limits	10	10	10	10	10	10

ND = Not Detected

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QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950	**JEL Ref. No.:**	ST-1275
	Long Beach, CA 90802	**Client Ref. No.:**	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/10/04
		Date Received:	05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

Modified 8015 Diesel (Simulated Distillation Extended Range)

Sample Spiked: CL-01

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Diesel	71%	68%	3.8%	65 - 125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-01	CL-02	CL-03	CL-04	CL-05	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	ND	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	ND	ND	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

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-01	CL-02	CL-03	CL-04	CL-05	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	ND	ND	ND	ND	ND	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	ND	1.0	ug/Kg
Methylene chloride	ND	ND	ND	ND	ND	1.0	ug/Kg
Naphthalene	ND	ND	ND	ND	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	ND	ND	ND	ND	13	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	ND	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:**	05/11/04
Client Address:	301 E. Ocean Blvd Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-01	CL-02	CL-03	CL-04	CL-05	Practical Quantitation Limits	Units
Analytes:							
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	ug/Kg
Trichloroethylene	ND	ND	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	ND	ND	ND	ND	ND	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	ND	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	103%	103%	104%	96%	95%	60 - 140	
Toluene-d_8	101%	101%	104%	102%	101%	60 - 140	
4-Bromofluorobenzene	100%	98%	100%	94%	82%	60 - 140	

ND = Not Detected

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Testing Laboratories
JONES ENVIRONMENTAL

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LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-06	Practical Quantitation Limits	Units
Analytes:			
Benzene	ND	1.0	ug/Kg
Bromobenzene	ND	1.0	ug/Kg
Bromochloromethane	ND	1.0	ug/Kg
Bromodichloromethane	ND	1.0	ug/Kg
Bromoform	ND	1.0	ug/Kg
Bromomethane	ND	1.0	ug/Kg
n-Butylbenzene	ND	1.0	ug/Kg
sec-Butylbenzene	ND	1.0	ug/Kg
tert-Butylbenzene	ND	1.0	ug/Kg
Carbon tetrachloride	ND	1.0	ug/Kg
Chlorobenzene	ND	1.0	ug/Kg
Chloroethane	ND	1.0	ug/Kg
Chloroform	ND	1.0	ug/Kg
Chloromethane	ND	1.0	ug/Kg
2-Chlorotoluene	ND	1.0	ug/Kg
4-Chlorotoluene	ND	1.0	ug/Kg
Dibromochloromethane	ND	1.0	ug/Kg
1,2-Dibromo-3-chloropropane	ND	1.0	ug/Kg
1,2-Dibromoethane (EDB)	ND	1.0	ug/Kg
Dibromomethane	ND	1.0	ug/Kg
1,2- Dichlorobenzene	ND	1.0	ug/Kg
1,3-Dichlorobenzene	ND	1.0	ug/Kg
1,4-Dichlorobenzene	ND	1.0	ug/Kg
Dichlorodifluoromethane	ND	1.0	ug/Kg
1,1-Dichloroethane	ND	1.0	ug/Kg

ND = Not Detected

PACCAR 04291

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:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:**	ST-1275
		Client Ref. No.:	16169
Attn:	Ravi Limaye	**Date Sampled:**	05/10/04
		Date Received:	05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-06	Practical Quantitation Limits	Units
Analytes:			
1,2-Dichloroethane	ND	1.0	ug/Kg
1,1-Dichloroethene	ND	1.0	ug/Kg
cis-1,2-Dichloroethene	ND	1.0	ug/Kg
trans-1,2-Dichloroethene	ND	1.0	ug/Kg
1,2-Dichloropropane	ND	1.0	ug/Kg
1,3-Dichloropropane	ND	1.0	ug/Kg
2,2-Dichloropropane	ND	1.0	ug/Kg
1,1-Dichloropropene	ND	1.0	ug/Kg
cis-1,3-Dichloropropene	ND	1.0	ug/Kg
trans-1,3-Dichloropropene	ND	1.0	ug/Kg
Ethylbenzene	ND	1.0	ug/Kg
Hexachlorobutadiene	ND	1.0	ug/Kg
Isopropylbenzene	ND	1.0	ug/Kg
4-Isopropyltoluene	ND	1.0	ug/Kg
Methylene chloride	ND	1.0	ug/Kg
Naphthalene	ND	1.0	ug/Kg
n-Propylbenzene	ND	1.0	ug/Kg
Styrene	ND	1.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	1.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	1.0	ug/Kg
Tetrachloroethylene	**4.0**	1.0	ug/Kg
Toluene	ND	1.0	ug/Kg
1,2,3-Trichlorobenzene	ND	1.0	ug/Kg
1,2,4-Trichlorobenzene	ND	1.0	ug/Kg
1,1,1-Trichloroethane	ND	1.0	ug/Kg

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E. Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS & Oxygenates

Sample ID:	CL-06	Practical Quantitation Limits	Units
Analytes:			
1,1,2-Trichloroethane	ND	1.0	ug/Kg
Trichloroethylene	ND	1.0	ug/Kg
Trichlorofluoromethane	ND	1.0	ug/Kg
1,2,3-Trichloropropane	ND	1.0	ug/Kg
1,2,4-Trimethylbenzene	ND	1.0	ug/Kg
1,3,5-Trimethylbenzene	ND	1.0	ug/Kg
Vinyl chloride	ND	1.0	ug/Kg
Xylenes	ND	1.0	ug/Kg
MTBE	ND	1.0	ug/Kg
Dilution Factor	1		
Surrogate Recovery:		**QC Limits**	
Dibromofluoromethane	93%	60 - 140	
Toluene-d_8	102%	60 - 140	
4-Bromofluorobenzene	83%	60 - 140	

ND = Not Detected

Jones Environmental, Inc.

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JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	Hart Crowser	**Report Date:**	05/11/04
Client Address:	301 E Ocean Blvd. Ste. #1950 Long Beach, CA 90802	**JEL Ref. No.:** **Client Ref. No.:**	ST-1275 16169
Attn:	Ravi Limaye	**Date Sampled:** **Date Received:**	05/10/04 05/10/04
Project:	Paccar - Clarifier Removal	**Date Analyzed:**	05/10/04
Project Address:	CA	**Physical State:**	Soil

EPA 5035B/8260B- Volatile Organics by GC/MS

Sample Spiked: CL-01

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
Benzene	123%	120%	2.9%	60 - 140
Chlorobenzene	114%	110%	3.5%	60 - 140
Toluene	117%	111%	4.9%	60 - 140
Trichloroethylene	106%	100%	5.4%	60 - 140
1,1-Dichloroethylene	98%	97%	1.0%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

PACCAR 04294

Sample Custody Record

HARTCROWSER

Samples Shipped To: _____

- ☐ 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-1275

JOB 16170 LAB NUMBER _____

PROJECT NAME PACCAR - CLARIFIER REMOVAL

HART CROWSER CONTACT Ravi Limaye

SAMPLED BY: Stephen A. Gyamfi

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	VOC, 8260	TPH - Mod.	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
								2	
1	CL-01		5/10/04	1440	Soil			X	
2	CL-02			1500				X	
3	CL-03			1520				X	
4	CL-04			1535				X	
5	CL-05			1645				X	
6	CL-06			1655				X	
								~~X~~	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
[signature]	5/10/04	[signature]	5/10/04
SIGNATURE Stephen A. Gyamfi	TIME	SIGNATURE Steve Jones	TIME
PRINT NAME Hart Crowser		PRINT NAME [signature]	
COMPANY	18:15	COMPANY	18:15

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS

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: 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 04295

ATTACHMENT B-2
CERTIFICATES OF ANALYSIS
ADVANCED TECHNOLOGY LABORATORIES - VOCS, SVOCS, AND METALS DATA

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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	ND	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	ND	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-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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	2.4	1.0		mg/Kg	1	5/15/2004
Barium	130	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	21	1.0		mg/Kg	1	5/15/2004
Cobalt	11	1.0		mg/Kg	1	5/15/2004
Copper	14	1.0		mg/Kg	1	5/15/2004
Lead	24	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	16	1.0		mg/Kg	1	5/15/2004
Selenium	4.5	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	140	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-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45:00 PM
Lab ID:	068933-004A	**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-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45:00 PM
Lab ID:	068933-004A	**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	ND	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	ND	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-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45.00 PM
Lab ID:	068933-004A	**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	4 1	1.0		mg/Kg	1	5/15/2004
Barium	85	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	14	1.0		mg/Kg	1	5/15/2004
Cobalt	7.3	1.0		mg/Kg	1	5/15/2004
Copper	14	1.0		mg/Kg	1	5/15/2004
Lead	17	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	10	1.0		mg/Kg	1	5/15/2004
Selenium	3.2	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	28	1.0		mg/Kg	1	5/15/2004
Zinc	89	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

SMITH-EMERY LABORATORIES
An Independent Commercial Testing Laboratory, Established 1904
791 E. Washington Boulevard
Los Angeles, California 90021
(213) 745-7135
Fax (213) 221-8609

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 (Clarifier area)
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

PACCAR 04304

SMITH-EMERY GEOSERVICES

PROJECT Mighty Machine/RECON
LOCATION 19706 Normandie 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

EXC - Excavation FSG - Finish Subgrade BF - Backfill 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 S - Sewer 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
4	5/13/2004	NG	BF,EXC, Clarifier area FSG	11.0	1[illegible]0.7	90.0	90	1	58.7		123.1

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
[illegible]	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@4V011.DOC) (#106447 v1 - Landfill Services Waste Profile and Terms)
06/04/04 1:25 PM

APPENDIX E
WASTE MANIFESTS
AND DISPOSAL TRIP TICKETS

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	6. US EPA ID Number	A. Transporter's Phone
MB Trucking	CAR000114694	(909) 648-5168
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)	001	DT	00018	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) (1) SOIL
PROFILE #AV0[illegible]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

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[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 04311

(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 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 04312

4BC 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) 468-7801

5. Transporter 1 Company Name: MB Trucking
6. US EPA ID Number: CAR000.1166.94
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	00016	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: RAVI LIMAYE, AGENT FOR PACCAR
Signature: R. S. Limaye
Month 06 Day 15 Year 04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Carlos Vasquez
Signature: [signature]
Month 06 Day 18 Year 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: R. W. Tons 2400
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER # 1

PACCAR 04313

(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 pacear

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 04314

9B 90963

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Document No.:
2. Page 1 of 1

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: [illegible] Trucking
6. US EPA ID Number: [illegible]
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	Y
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
a) 11) SOIL
PROFILE #AV[illegible]

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.

TRANSPORTER

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 [illegible] PACCAR
Signature: [illegible]
Month: [illegible] Day: 18 Year: 04

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Armando Rodriguez
Signature: [illegible]
Month: [illegible] Day: 18 Year: 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 04315

(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 04316

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: [illegible]
Manifest Document No.:
2. Page 1 of 1

GENERATOR

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	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
[illegible]	[illegible]			

TRANSPORTER

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

FACILITY

19. Discrepancy Indication Space
2658

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

T/S/D/F COPY

PACCAR 04317

(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 04318

9397712

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N A Z
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	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: [illegible]
Signature: [illegible]
Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year: 06 18 94

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
36.71

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: Katie Arellano
Month Day Year: 10 18 94

GENERATOR

TRANSPORTER

FACILITY

T/S/D/F COPY

PACCAR 04319

(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:	

PACCAR 04320

[redacted]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A	Manifest Document No	2. Page 1 of 1	

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 [illegible]	6. US EPA ID Number [illegible]	A. Transporter's Phone [illegible]
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]

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]	[illegible]	[illegible]

T/S/D/F COPY

PACCAR 04321

(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	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:	

PACCAR 04322

APPENDIX F
CLOSURE INSPECTION REPORT FOR CLARIFIER

Appendix F

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
www.ladpw.org

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

September 23, 2004

IN REPLY PLEASE REFER TO FILE. EP-1
003518-041258

Mr. Tino Magdaleno
Recon
1101 California Avenue #100
Corona, CA 92881

Dear Mr. Magdaleno:

INDUSTRIAL WASTE PRETREATMENT FACILITY
CLOSURE CERTIFICATION
CLOSURE APPLICATION NUMBER 412493
FACILITY LOCATION: 1206 WEST 196TH STREET, TORRANCE

This office has received the inspection results dated May 6, 2004, prepared by L. A. County DPW IW Inspection required as a part of the subject application for closure. Based on the information submitted, we find that all closure requirements have been completed. With the provision that the information provided to this agency was accurate and representative of existing conditions, it is our position that no further action is required at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at this site. Nor does it relieve you of the responsibility to cleanup existing, additional, or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health.

Additionally, be advised that changes in the present or proposed use of the site may require further site characterization and mitigation activity. It is the property owner's responsibility to notify this agency of any changes in report content, future contamination findings, or site usage.

If you have any questions regarding this matter, please contact Ms. Merlan Linares of this office, at (626) 458-3538, Monday through Thursday, 7 a.m. to 5:30 p.m.

Very truly yours,

DONALD L. WOLFE
Interim Director of Public Works

FRANK CHIN
Associate Civil Engineer
Environmental Programs Division

ML:wm
C:\[illegible]

cc:

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

INDUSTRIAL WASTE/HAZARDOUS MATERIALS UNDERGROUND STORAGE CLOSURE INSPECTION REPORT

Date 5/6/04

Facility Name Mighty Industries File No. 3518-41258 -

Site Address 12060 W 190th St, Torrance Permit No. A 412493

Contact Person J.R. Fredricks Phone (909) 545-6821

Type Inspection: [ ] Tank(s) & Piping [ ] Tank(s) only [ ] Piping only [ ] Sump(s) [X] Closure in place [ ] Other

Contractor J.R. Fredricks w/ Recon Constr. Phone (909) 545-6821

Samples by Fred Benz w/ Paccar, Inc Phone (415) 468-7901

Geologist Phone ( )

Industrial Hygienist Phone ( )

Items closed:

Type (tank/sump)	Contents	Capacity	Proper Sampling [yes]	Proper Sampling [no]	Perm Removal	Perm In-place
1. Clarifier	N/A	~750 gal	[ ]	[ ] N/A	[ ]	[X]
2.			[ ]	[ ]	[ ]	[ ]
3.			[ ]	[ ]	[ ]	[ ]
4.			[ ]	[ ]	[ ]	[ ]

Observations:	[yes]	[no]
Visual contamination observed	[ ]	[✓]
Sampling of excavated soil required	[ ]	[✓]
Tanks structurally sound	[ ]	[ ] N/A
Tanks remaining on site	[ ]	[ ] N/A How many ____ Monitor sys. ____
Sampling conducted by DPW	[ ]	[✓] Attach Chain-of-Custody
Notice issued	[ ]	[✓] Attach copy of Notice

Comments: Clarifier previously abandoned. Clarifier will be closed in-place due to 12 in. water main directly underneath clarifier. No samples required.

Include a detailed site survey on the reverse of this form.

Inspector Gerardo Abrica Date 5/6/04

38-0027 DPW 4/91

www.hartcrowser.com

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2550 Denali Street, Suite 705
Anchorage, Alaska 99503-2737
Fax 907.276.2104
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 98020-8411
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 08002-1465
Fax 856.773.4106
Tel 856.773.4101

Portland
Five 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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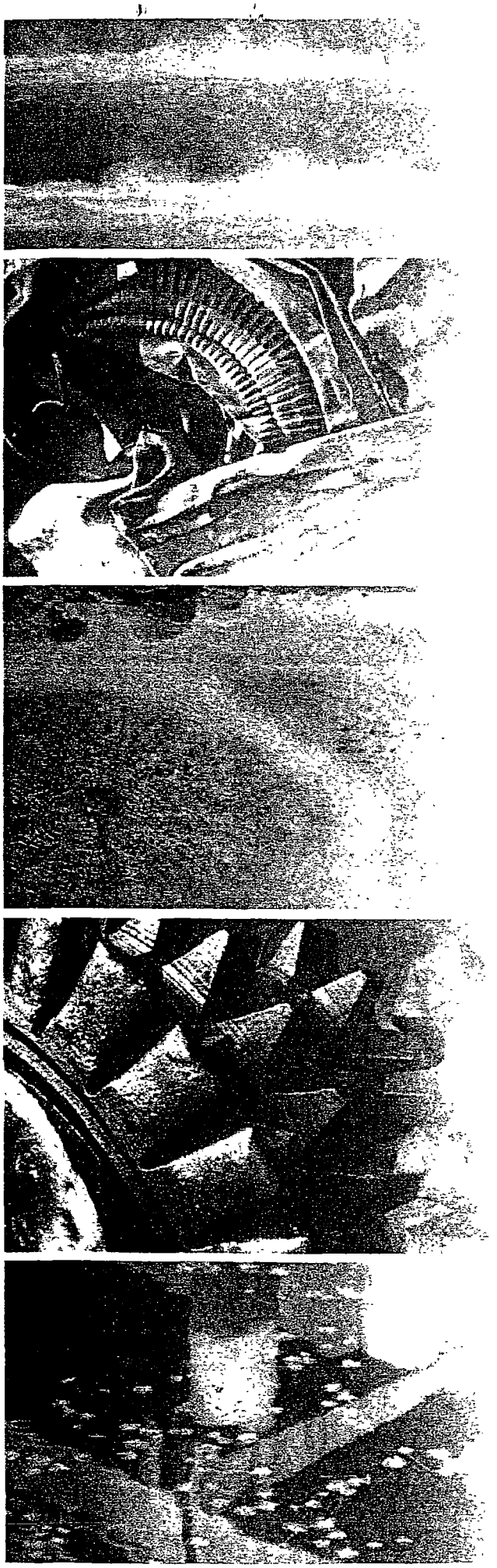

Work Plan For Clarifier Removal
Former Trico Facility
Torrance, California

Prepared for:

PACCAR
P.O.Box 1518
Bellevue, Washington 98009

Prepared by:

Hart Crowser, Inc.
301 E. Ocean Blvd.
Suite 1950
Long Beach, California

April 21, 2004

Project No. 16170

HARTCROWSER
Delivering smarter solutions

PACCAR 04328

Work Plan For Clarifier Removal
Former Trico Facility
Torrance, California

Prepared for
PACCAR

April 21, 2004
16170

Prepared by
Hart Crowser, Inc.

R. S. Limaye

Ravi Limaye, P.E., R.E.A.
Senior Associate Engineer

Ronald Halpern, R.G. 6645
Associate Geologist

REGISTERED GEOLOGIST
RONALD M. HALPERN
NO. 6645
STATE OF CALIFORNIA

1.0 INTRODUCTION 1

2.0 SITE BACKGROUND 1

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Potential On-Site Sources – Figure 2, Appendix A 3

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FIGURES

Figure 1 - Site Location Map

Figure 2 - Proposed Clarifier Excavation and Soil Stockpile Locations

Figure 3 – Details of Clarifier Excavation Area

APPENDICES

Appendix A - Historical Data
Appendix B - En Core Procedures / Forms

PACCAR 04330

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 and in April 2004 per requests 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 remove a three-stage clarifier near the eastern edge of the Site, use the area for storing drums and other waste generated from Site Investigation activities, obtain additional data on soil conditions at the site, with the goal of obtaining RWQCB closure for the soil. Specifically the work will include:

- Removal of a three-stage clarifier and disposal of approximately 25 tons of impacted soil at the eastern edge of the Site;
- Prepare a dedicated waste storage area; and
- 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.

PACCAR 04332

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.

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 for 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 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.

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
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.

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 - Work Plan and Health/Safety Plan
- Task 2 - Clarifier Removal and Backfilling
- Task 3 - Laboratory Analyses
- Task 4 - Preparation of a Dedicated Waste Storage Area
- Task 5 - Preparation of Clarifier Removal Report
- Task 6 - Project Management

Task 1: Work Plan and Health/Safety Plan

Hart Crowser will prepare both a Work Plan and a Health and Safety Plan (HSP) The Work Plan will provide a description of the procedures to be used during the excavation around BL-06

Included in the Work Plan will be the description of how the Site will be prepared for the work, the method of performing the removal, work impacts due to action levels, management of the removed soil, sampling of the walls and base of the excavation, soil disposal procedures and the method of backfilling the excavation The HSP is designed primarily to minimize exposure of personnel of Hart Crowser and its subcontractors to potentially hazardous materials. The HSP will describe the properties of contaminants that may be encountered, personal protective equipment (PPE), PPE requirements based on action levels, working area monitoring, and contingencies in the event of an emergency. The principal subcontractor conducting the impacted soil removal will provide their own health and safety plan for site hazards not related to contacting hazardous materials.

Task 2: Clarifier Removal and Backfilling

Utility Locate:

Hart Crowser will subcontract a private locating service to identify underground lines and utilities near the proposed excavation and to determine if additional unknown USTs are present in that area. Hart Crowser will also contact Underground Service Alert for the demarcation of underground utilities and will obtain a permit from the City of Torrance for removing the clarifier.

Contaminated Soil Excavation:

The contractor will remove the existing crates and pallets from an approximate 30 feet by 30 feet area and will store it at another location within 200 feet of the work area A temporary chain-link fence will be installed for security purposes. The concrete and/or asphalt pavement, approximately 30' by 30' by up to 6 inches in thickness, will be removed prior to any excavation procedures. The contractor will saw cut the concrete and/or asphalt pavement along the perimeter of the proposed excavation and if necessary around the clarifier. All efforts will be made to remove the clarifier in one piece and in as of good condition as possible. The contractor will then break up and remove the rest of the pavement and arrange for disposal to a pre-approved disposal facility. After pavement removal, potentially contaminated soil in the area of approximately 30' by 30' by 12" deep will be removed from the southeast corner. All contaminated soil will be stockpiled for characterization sampling, waste profiling, and disposal to a pre-approved disposal facility. In addition, Hart Crowser personnel will observe the excavation and removal of soil from base of the excavation and the perimeter of clarifier and will conduct air monitoring of the excavation in accordance with South Coast Air Quality Management District (SCAQMD) Rule 1166 requirements. The excavated soil will be screened using a photoionization detector (PID) and impacted soil will be segregated from clean soil, if necessary. Immediately north and adjacent to this area, monitoring well MW-7 is located. Monitoring well MW-7, as well as all other wells on site will be protected during all phases of site investigations and other remedial activities

PACCAR 04336

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 contaminants were not the highest levels detected on site. 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. It appears that SCS Engineers provided unwarranted conjecture alluding to significant contamination in the area. As the removal of the pavement surfacing and the clarifier is conducted, Hart Crowser geologist will observe for any signs of contamination. If minor amounts of contamination are discovered, localized surface pockets will be removed. If hot spots appear to extend significantly in any direction, Hart Crowser will immediately inform PACCAR to explore options to handle the suspected impacts. Upon completion of the evaluation and discussion of alternatives with PACCAR, if so determined, Hart Crowser would then seek prior approval before proceeding further with the attempted hot spot removals.

Soil Sampling:

Upon completion of the clarifier and soil removal activities, soil samples will be collected under the direction of a Hart Crowser registered geologist. Soil samples will be collected and sampled using either EnCore Samplers or Quick Syringes in accordance with EPA Method 5035 for VOCs (See Appendix B).

Soil samples will be collected from the excavation and spoils piles and will be submitted to a hazardous waste mobile laboratory for analysis on a quick (same day) turnaround basis. A minimum of two (2) soil samples will be collected from the base of the excavation. One soil sample will also be collected from each of the side walls (4 samples). Each sample will be collected approximately two feet below and within native soil. Contaminated soil will be disposed of at a pre-approved disposal facility, either American Remedial Technologies or Waste Management's Kettleman Hills facility.

PACCAR 04337

Completion of Excavation:

The excavation will stay open until clearance to complete excavation has been provided by PACCAR. Upon completion of soil-removal procedures, the excavation cavity will be backfilled in 18" lifts with clean imported soil and clean segregated soil, if any, and compacted to 90% maximum density. The clarifier outlet will be capped per City of Torrance requirements The excavation area will then be resurfaced with concrete as described in Task 4. The excavated soil will be placed on and covered with plastic and will be profiled for disposal. After completion of all excavation activities, a minimum of two (2) soil samples will be collected from the soil stockpile for characterization of soil for disposal. Upon receipt of profile results, Hart Crowser will coordinate soil transportation and disposal. The contaminated soil will be loaded into trucks and then transported for disposal as a non-RCRA hazardous waste to a pre-approved licensed disposal facility, either American Remedial Technologies or Waste Management's Kettleman Hills facility PACCAR will be notified immediately if the profiling results indicate soil as RCRA hazardous waste. PACCAR or Hart Crowser as PACCAR's authorized representative will sign the waste manifests.

It is our understanding that the completion of the clarifier excavation and confirmatory soil sampling is anticipated to take one day of field time, and the mobile lab will be needed for one day. If the sample results show elevated concentrations of chemicals of concern (COCs), Hart Crowser will advise PACCAR immediately. Hart Crowser and our subcontractor will stay on site pending results of analysis by the mobile laboratory. If soil analysis indicates elevated concentrations of chemicals of concern (COCs), it may be determined that additional soil should be removed. Analytical results will be compared to cleanup standards and Hart Crowser will provide advice regarding further excavation

Task 3: Laboratory Analyses

A minimum of eight (8) soil samples will be collected during the clarifier removal activities and submitted to a stationary laboratory for analysis. Selected soil samples will be analyzed for volatile hydrocarbons, semi-volatile hydrocarbons, TPH, and CAM 17 Metals to characterize the soil for disposal

Soil samples collected following the removal of the impacted soil will be analyzed on-site for volatile hydrocarbons and carbon chain by a State-certified hazardous waste mobile laboratory. Analyses for semi-volatile hydrocarbons and CAM 17 Metals will be performed at a stationary laboratory.

Results will be compared to cleanup standards and Hart Crowser will provide advise regarding further excavation.

TASK 4: PREPARATION OF DEDICATED WASTE STORAGE AREA

Upon completion of the clarifier removal and backfilling activities, a 4-inch thick reinforced concrete (3000 psi) pad will be completed over the 30-feet by 30-feet area. The 4-inch concrete pad will be reinforced with No. 4 reinforcing bar, 18" o.c. each way (minimum) or other placement pattern as required by applicable codes. Fence post receptacles will be installed for the installation of a 120 feet long, 6 feet high fence with a 12 feet wide gate for forklift access. All construction debris, equipment and unused material will then be removed from the Site.

Task 5: Preparation of Clarifier Removal Report

Upon completion of clarifier removal activities and receipt of the analytical results, a draft clarifier removal report will be prepared which summarizes the work that was performed, the procedures that were used, the data obtained, and a discussion of the results and conclusions. In addition, site plot plans and maps documenting the site activities will be included in the report. All site drawings will be provided in a computer aided drawing (CAD) electronic format compatible with AutoCAD 2002 for the final report. During presentation of the draft report, a "pdf" format may be used for transmittal of site drawings, however site drawings will also be made available in the CAD electronic format upon request. A compaction report and waste manifests will also be included in this report An electronic draft report will be submitted to PACCAR for review and comments. Hart Crowser will make the necessary adjustments, if any, to the draft report based on comments received from PACCAR. It is expected that if all PACCAR comments are addressed and questions answered in advance and no new language is added, a single re-draft will be provided Three copies of the final report will be issued after PACCAR's approval.

Task 6: Project Management

This task involves the coordination of each of the tasks listed above, client communications, and overall project management. We have included costs for one 4- hour meeting with the Los Angeles Regional Water Quality Control Board (LARWQCB).

4.0 *PROJECT SCHEDULE*

The estimated time to conduct field excavation activities is one (1) day. Hart Crowser personnel will oversee the removal of crates and the preparation of the dedicated waste storage area over three (3) days. The estimated time to complete all tasks is approximately four (4) weeks following initiation of the project. Hart Crowser has assumed that the work outlined in this proposal will be completed immediately following the removal of the 65 tons of impacted soil around BL-06. Off-site soil disposal will follow completion of all excavation activities, stockpile sampling, analysis for waste characterization and profiling, followed by transportation and disposal to a licensed, pre-approved disposal facility.

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., 2004. Health & Safety Plan, 1206 West 196th Street, Torrance, California. Project No. 16169. April.

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

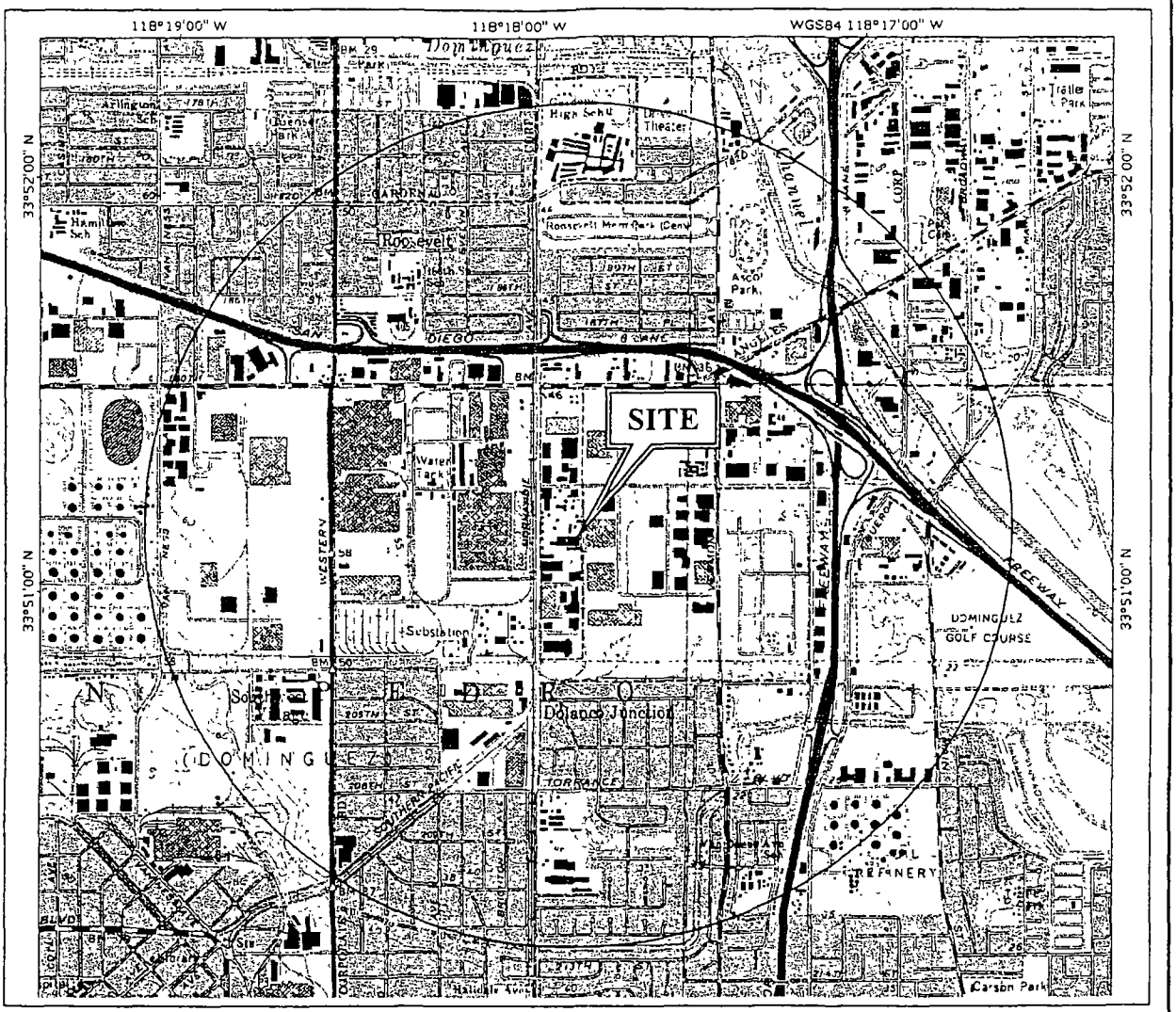
USEPA, 1999. Record of Decision for Dual Site Groundwater Operable Unit, Montrose Chemical and Del Amo Superfund Sites. Volume I. March 1999.

F \DATA\JOBS\16000s\16170 00 - A - Paccar Clarifier Removal and Waste Storage area\SE Clarifier WorkPlan3 doc

PACCAR 04340

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

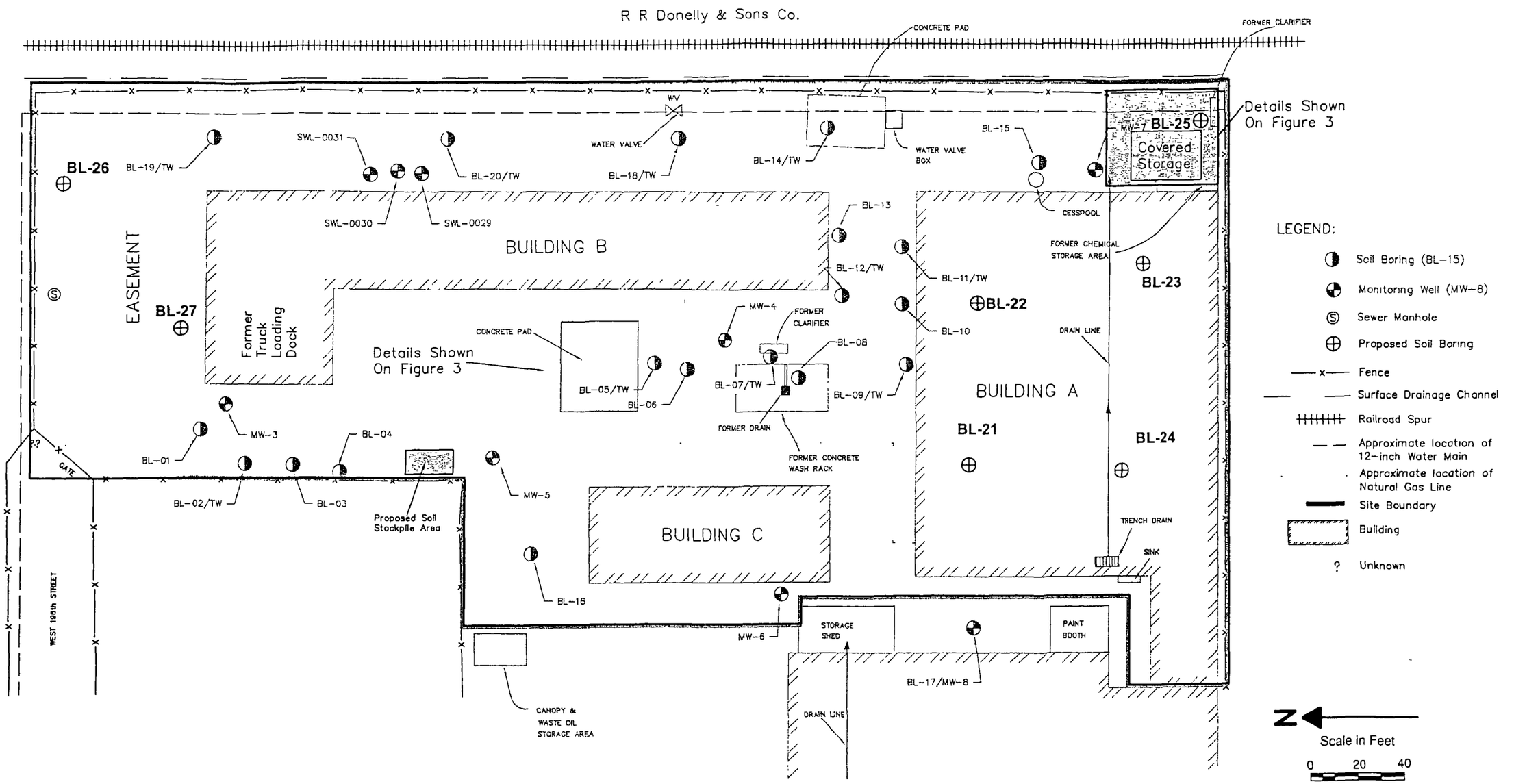
HARTCROWSER

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

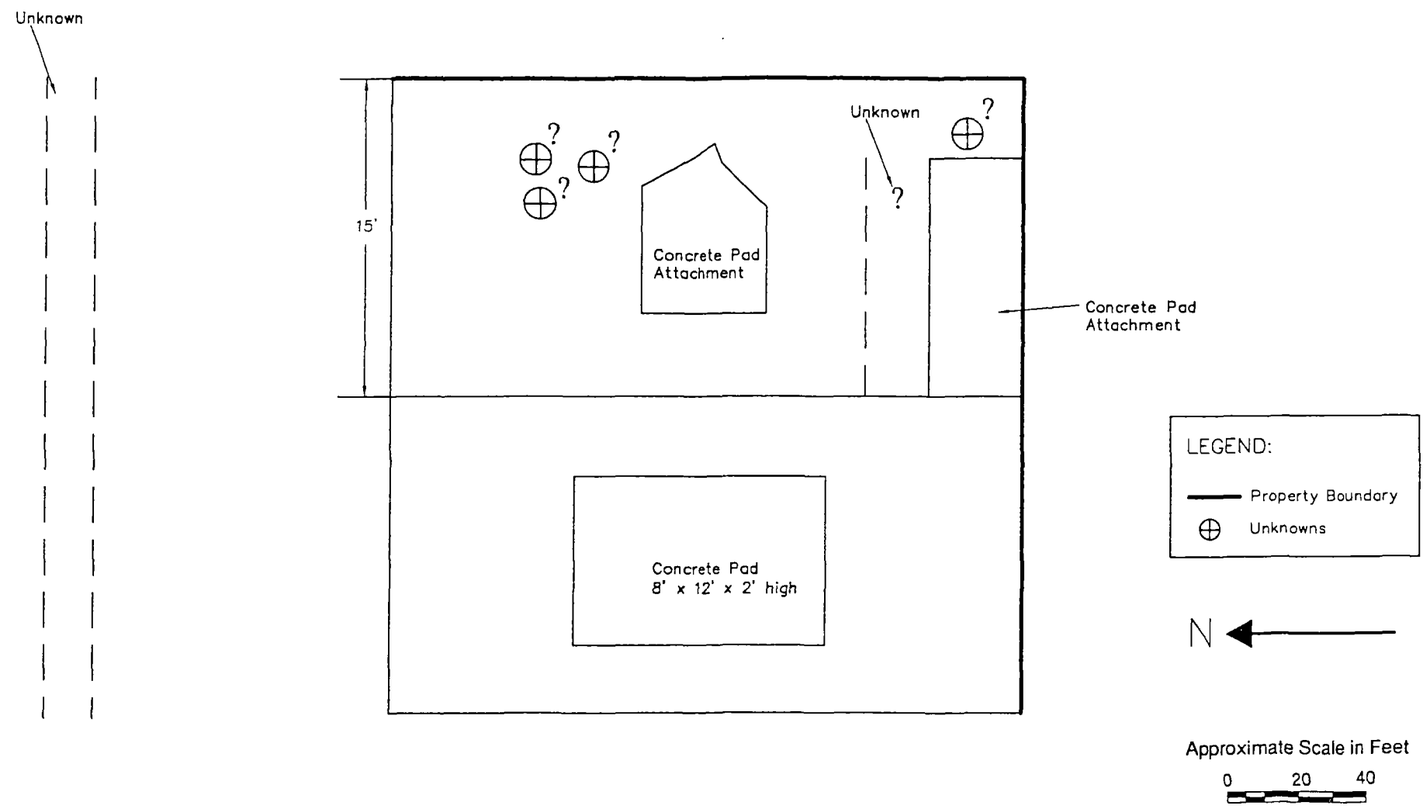
HARTCROWSER

Proposed Excavation Area Near Clarifier
Former Trico Facility
1206 W 196th ST
Torrance, California

Date. April 8, 2004
Job No : 16170

File F Data/Jobs/16000/16170/Figures/AutoCAD/
Figure 2-Proposed Excavation Area Near Clarifier

FIGURE 2



HARTCROWSER

Excavation Area Near Clarifier
Former Trico Facility
1206 W 196th ST
Torrance, California

Date: April 8, 2004	Job No : 16170	File F Data/Jobs/16000/16170/Figures/AutoCAD/ Figure 3 - Excavation Area Near Clarifier rev2	FIGURE 3

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.

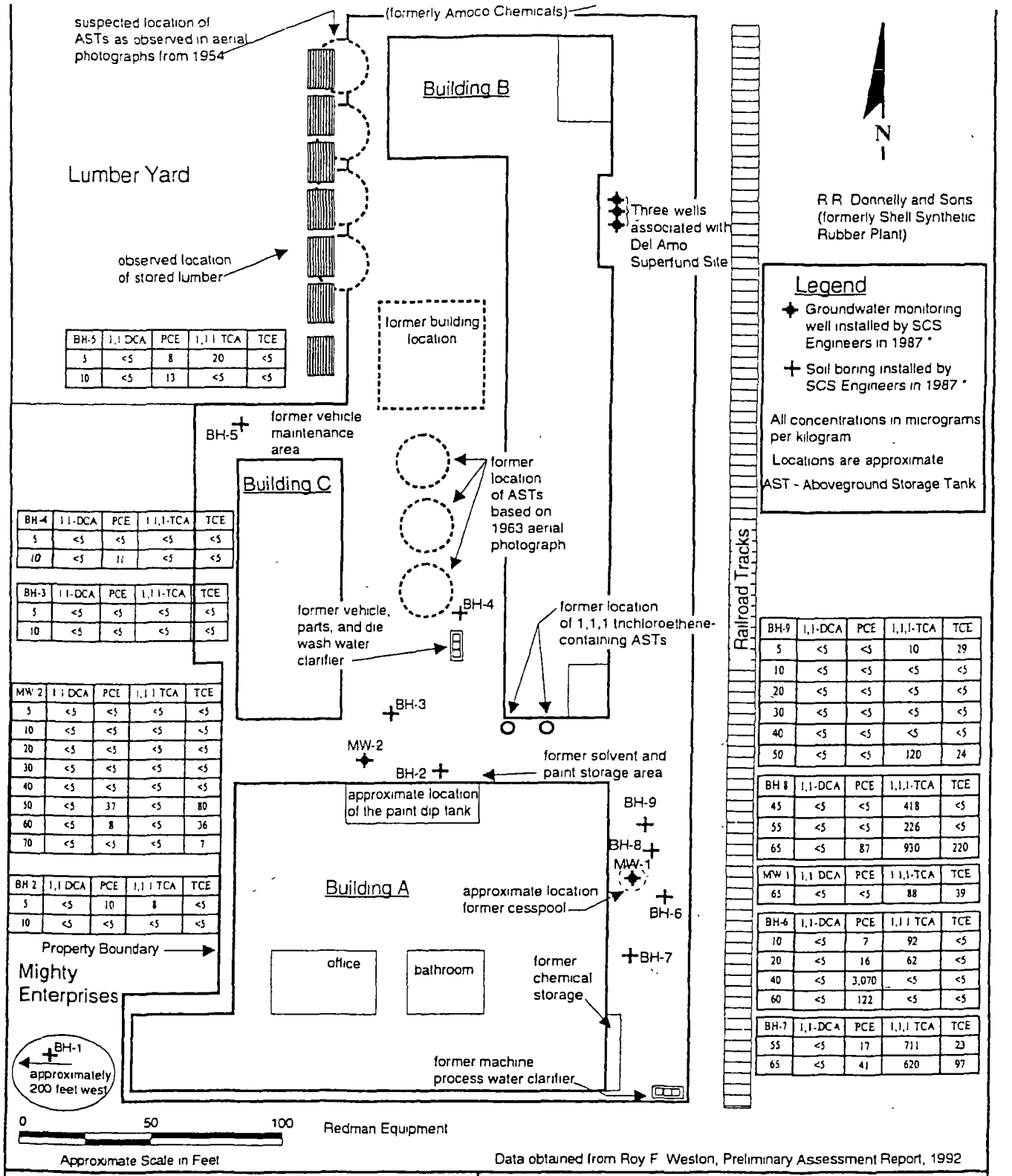
The transformers at the subject property were observed to be in good condition. No staining, discoloration, or corrosion was observed on the transformers.

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
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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

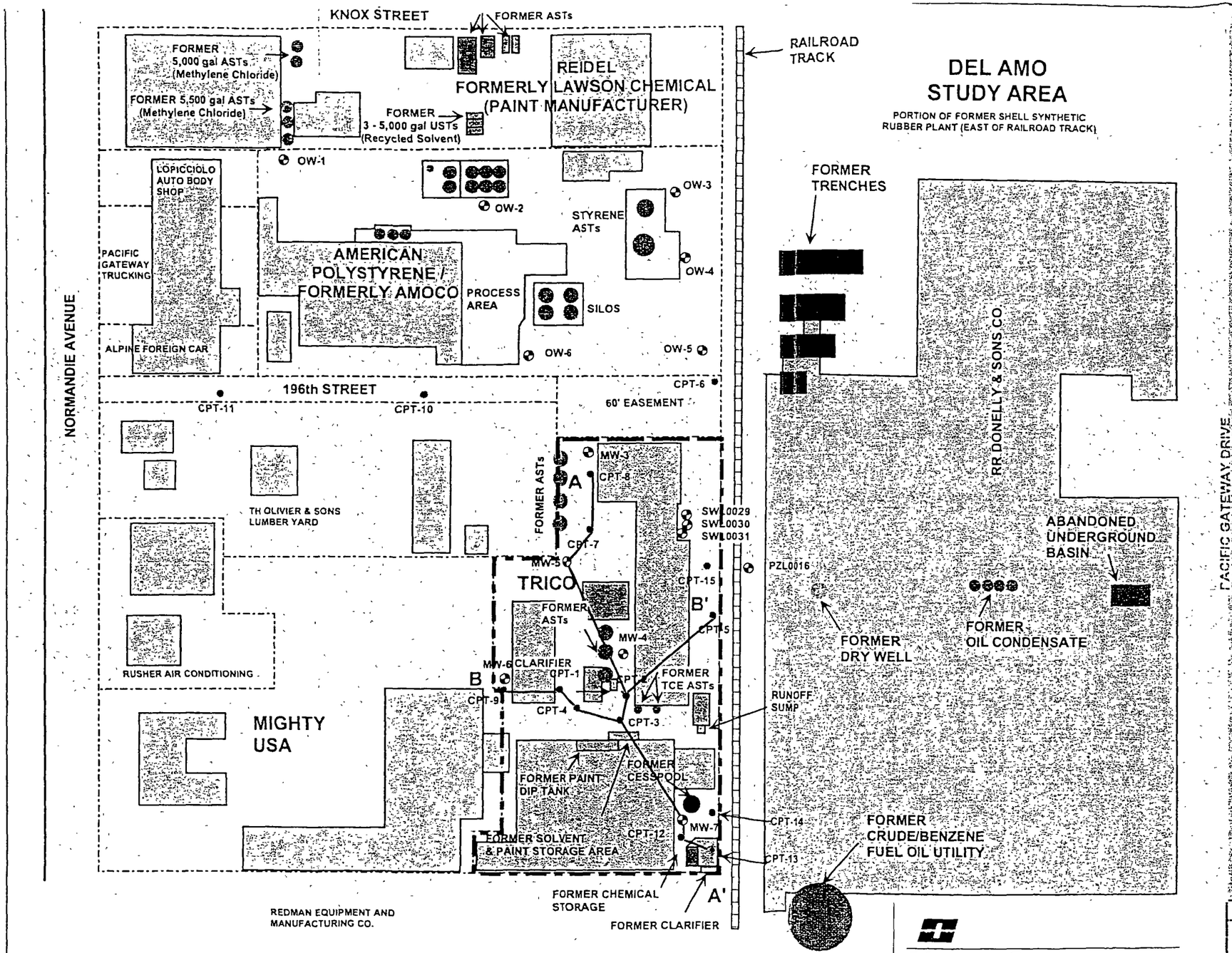
PROJECT NAME: FORMER TRICO - TORRANCE

Historical Soil Analytical Results for Selected Volatile Organic Compounds
1206 W.196th Street, Torrance, CA

PROJECT NO . 6905 | DATE. October 2000

FIGURE 2

PACCAR 04356



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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)

F:\DATA\JOBS\6900\6905\FIGURES\CROSS-SECTIONLOCATION MAP.DSF

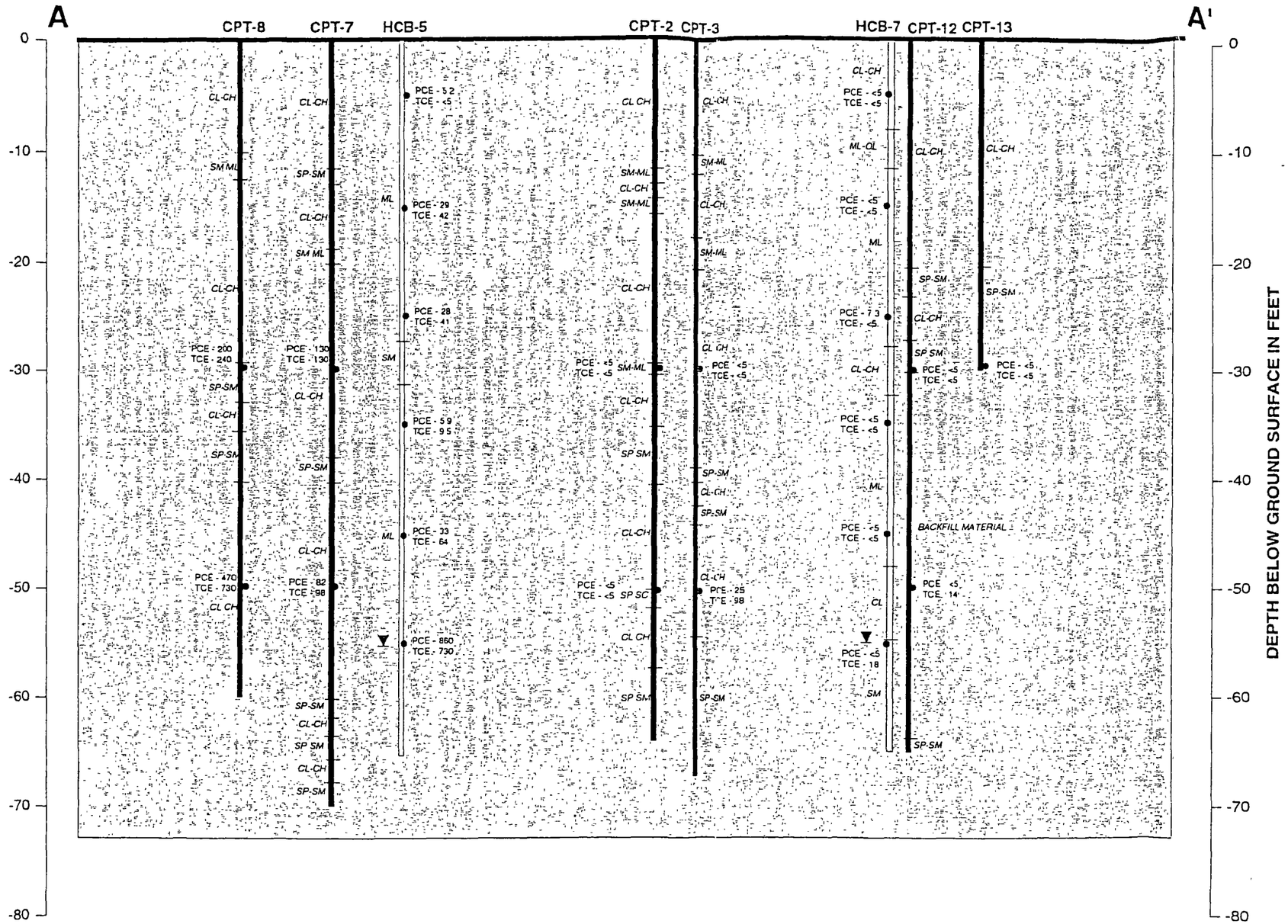
HARTCROWSER

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

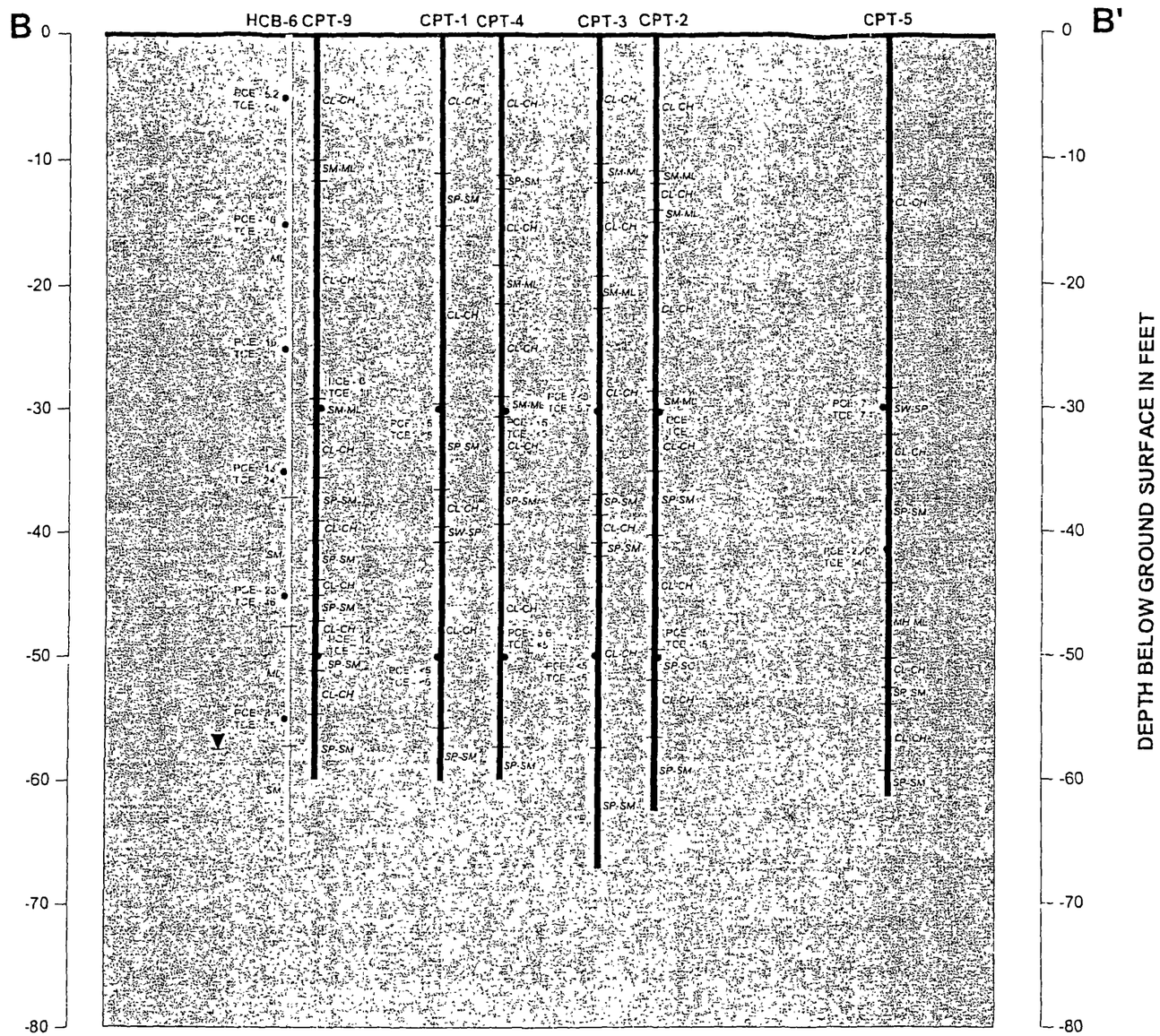
PROJECT NO · 6905

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

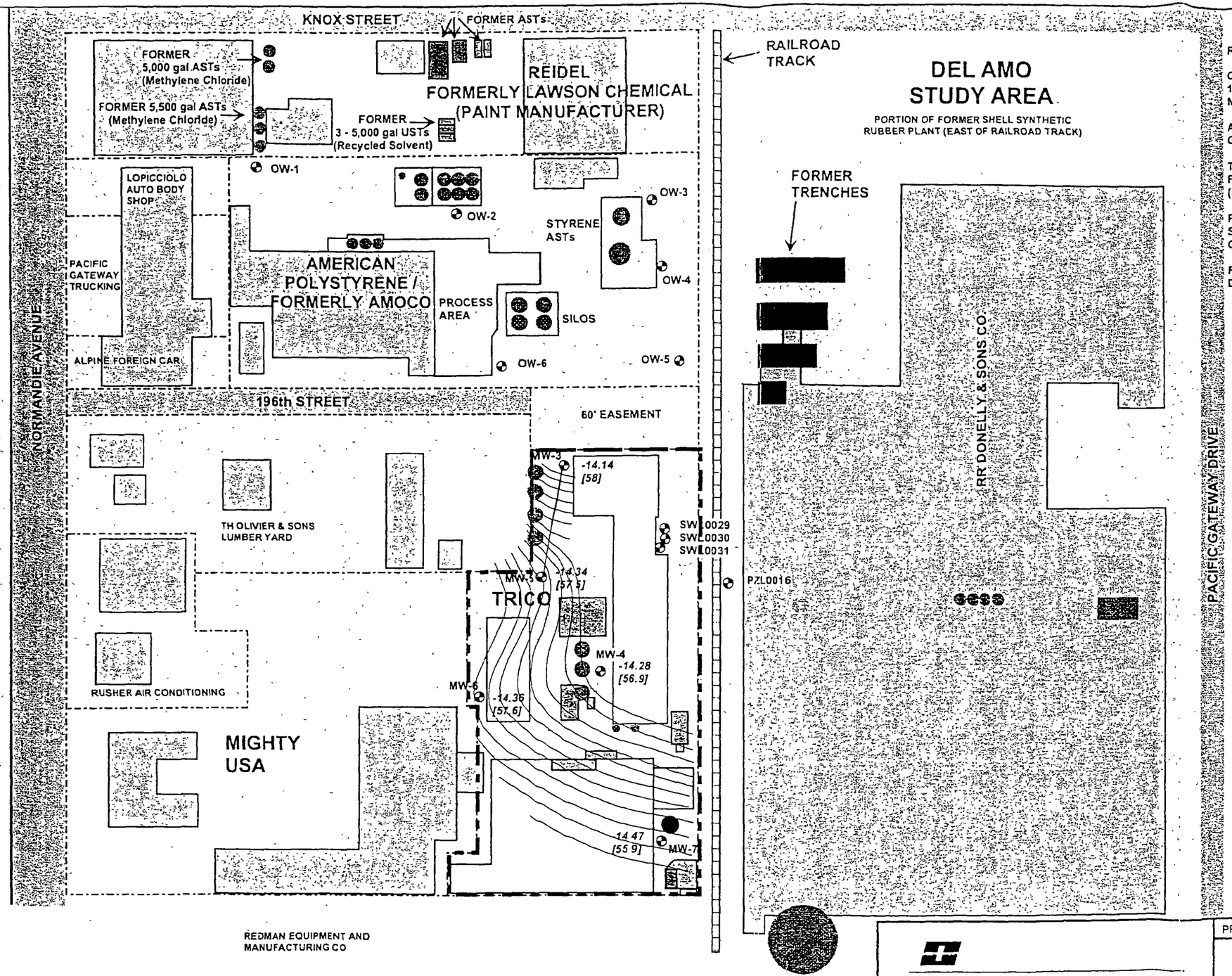
HARTCROWSER

PROJECT NO.: 6905
DATE: OCTOBER 2000

PROJECT NAME: FORMER TRICO - TORRANCE

CROSS SECTION B - B'
1206 W.196th Street
Torrance, CA

FIGURE 5



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)

-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

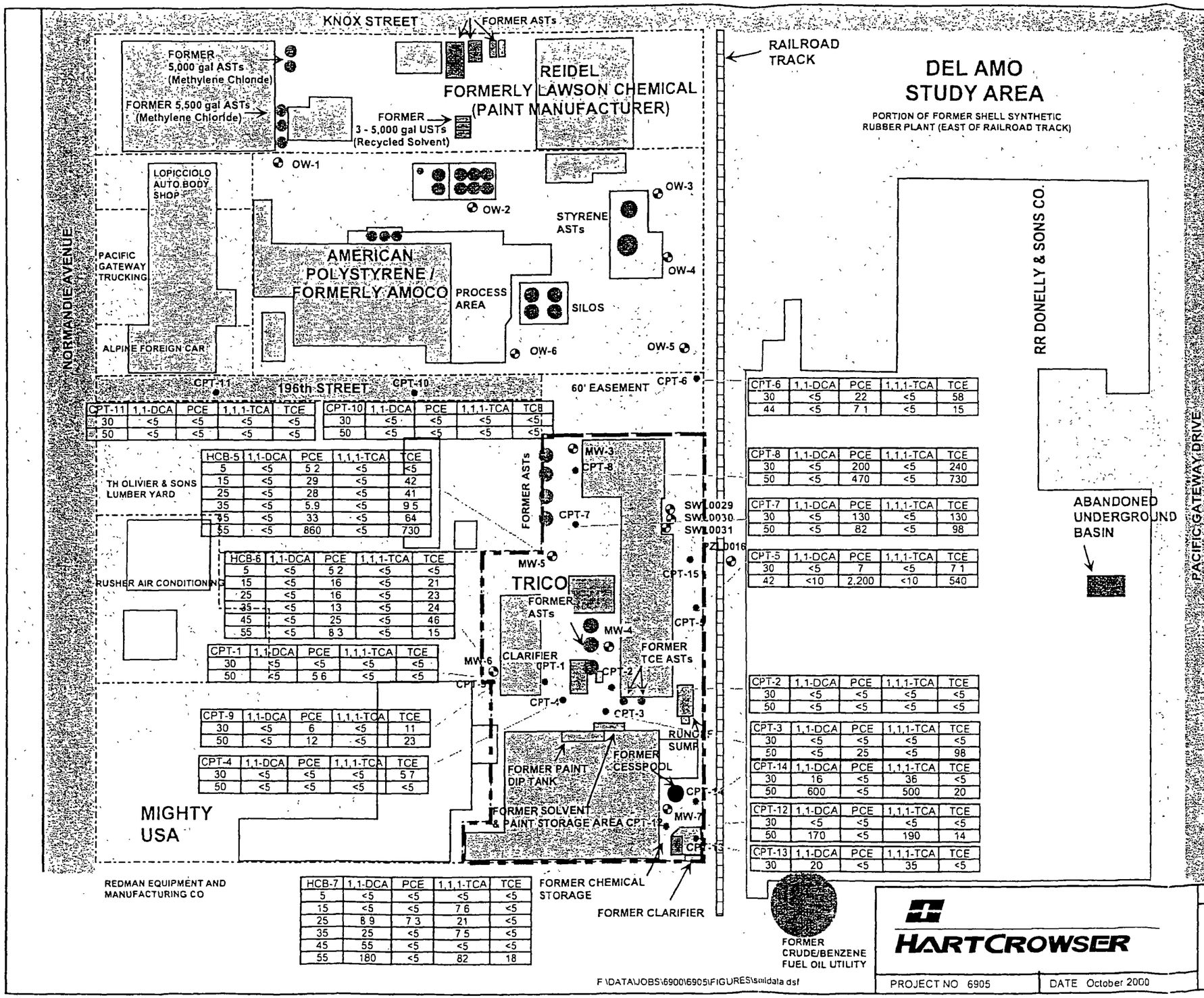
GROUNDWATER CONTOUR MAP
1206 W.196th Street
Torrance, CA

FIGURE 6

PROJECT NO . 6905

DATE October 2000

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

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 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

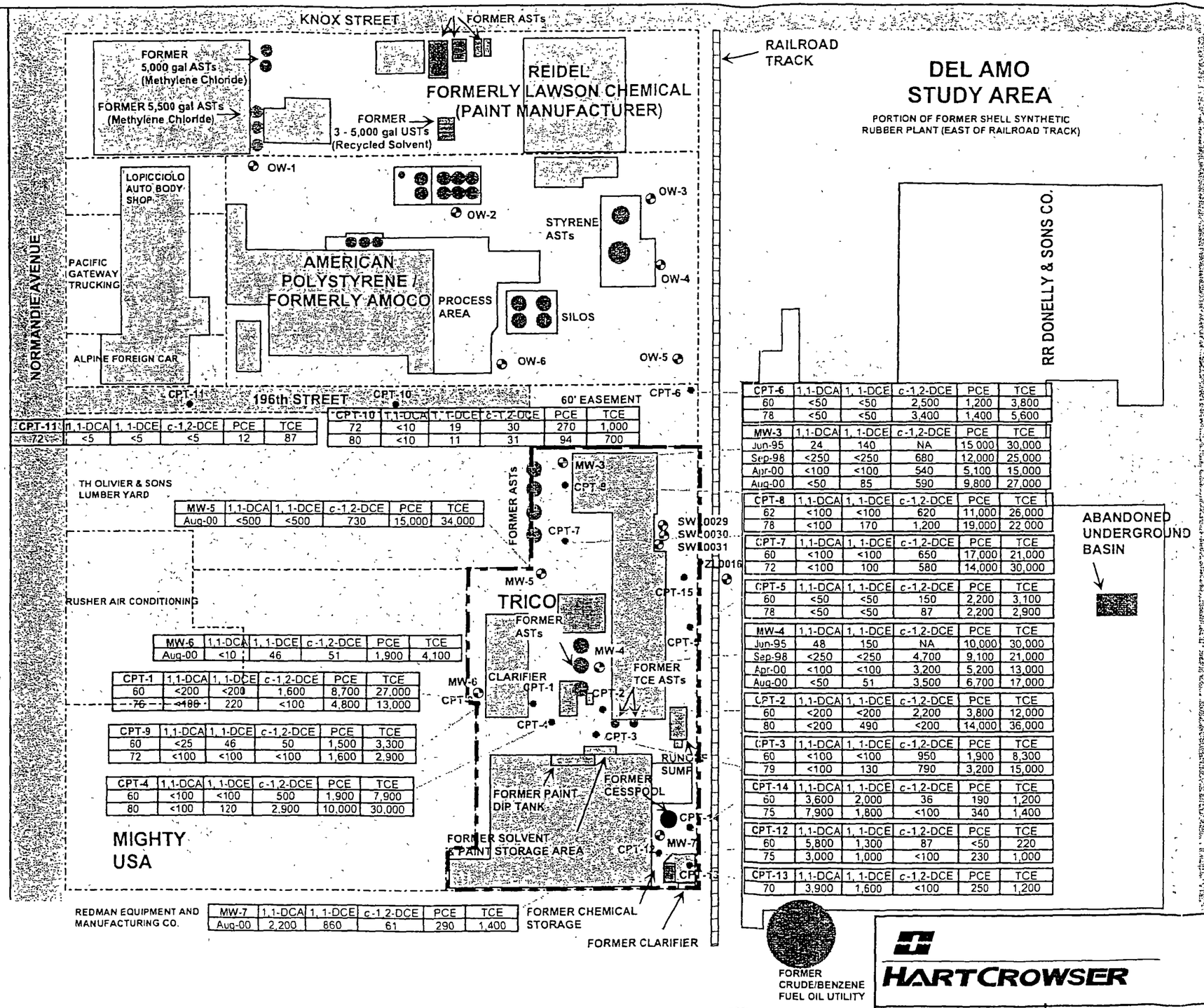
FIGURE 7

PROJECT NO 6905

DATE October 2000

F:\DATA\JOBS\6900\6905\FIGURES\soildata.dsf

PACCAR 04361



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	<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.)

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- 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 NAME TRICO - TORRANCE

SELECTED VOCs IN GROUNDWATER
1206 W.196th Street
Torrance, CA

FIGURE 8

PROJECT NO : 6905 | DATE October 2000

F:\DATA\JOBS\6900\6905\FIGURES\groundwaterdata.dsf

PACCAR 04362

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

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)

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

Analyte — VOCs by EPA Method 8260B/5035 (Results in ug/Kg)

Sample	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
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		$1 6^{+6}$	600	NA	240,000	220 000	3,600	940	$3 7^{+5}$	3,400	280	43,000	$1 2^{+5}$	$5 1^{+5}$	2,800	NA	$1 6^{+5}$	NA
	Industrial Soil		6^{+6}	1,300	NA	240,000	220,000	$1 2^{+4}$	2,000	$3 7^{+5}$	7,900	600	150,000	$4 1^{+5}$	$1 7^{+6}$	6,000	NA	520	NA
BL-1	0 5	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
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
BL-1	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-1	30	12/10/02	<50	<2	<50	<5	<5	15		24	12	11	32	<5	<5		<10	<5	<50
BL-1	40	12/10/02	<50	<2	<50	<5	<5	19		34	19	14	41	<5	<5		<10	<5	<50
BL-1	50	12/10/02	<50	<2	<50	<5	<5	8 5		30	16	6 6	19	<5	<5		<10	<5	<50
BL-1	55	12/10/02	<50	<2	<50	<5	<5	14		21	7.4	13	27	<5	<5		<10	<5	<50
BL-1	60	12/10/02	<50	3 6	<50	<5	<5	18		6 5	<5	<5	47	<5	<5		<10	<5	<50
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
BL-2	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-2	30	12/10/02	<50	<2	<50	<5	<5	13		5 8	<5	<5	24	<5	<5		<10	<5	<50
BL-2	40	12/10/02	<50	2 6	<50	<5	<5	33		11	9.3	<5	43	<5	<5		<10	<5	<50
BL-2	50	12/10/02	<50	<2	<50	<5	<5	14		6 0	<5	<5	27	<5	<5		<10	<5	<50
BL-2	55	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5 2	<5	<5		<10	<5	<50
BL-2	60	12/10/02	<50	<2	<50	<5	<5	9		6 3	<5	<5	16	<5	<5		<10	<5	<50
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
BL-3	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8 3	<5	<5		<10	<5	<50
BL-3	30	12/10/02	<50	<2	<50	<5	<5	11		5 9	<5	<5	29	<5	<5		<10	<5	<50
BL-3	40	12/10/02	<50	<2	<50	<5	<5	7 8		7.0	<5	<5	20	<5	<5		<10	<5	<50
BL-3	50	12/10/02	<50	5 8	<50	<5	<5	27		11	6 9	<5	57	<5	<5		<10	<5	<50
BL-3	60	12/10/02	<50	5 2	<50	<5	<5	26		12	7 5	6 8	53	<5	<5		<10	<5	<50
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
BL-4	20	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-4	30	12/10/02	<50	3 4	<50	<5	<5	17		5 9	<5	<5	34	<5	<5		<10	<5	<50
BL-4	40	12/10/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	20	<5	<5		<10	<5	<50
BL-4	45	12/10/02	<50	<2	<50	<5	<5	5 9		<5	<5	<5	24	<5	<5		<10	<5	<50
BL-4	50	12/10/02	<50	2.1	<50	<5	<5	19		18	12	11	60	<5	<5		<10	<5	<50
BL-4	60	12/10/02	<50	<2	<50	<5	<5	9 3		<5	<5	<5	32	<5	<5		<10	<5	<50
BL-5	0 5	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-5	35	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	6 7	<5	<5		<10	<5	<50
BL-5	55	12/16/02	<50	<2	<50	<5	<5	25		<5	<5	<5	450	<5	<5		<10	<5	<50
BL-6	10	12/13/02	6400	<20	12000	11000	9800	<50		<50	<5	<50	<5	<50	<50		10000	3300	1900
BL-6	25	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8 4	<5	<5		<10	<5	<50
BL-6	40	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	35	<5	<5		<10	<5	<50
BL-6	50	12/13/02	<50	<2	<50	<5	<5	34		<5	<5	<5	260	<5	<5		<10	<5	<50
BL-7	5	12/16/02	<50	<2	<50	15	16	<5		<5	<5	<5	<5	<5	<5		<10	150	<50
BL-7	15	12/16/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-7	45	12/16/02	<50	<2	<50	<5	<5	9 7		<5	<5	<5	88	<5	<5		<10	<5	<50
BL-7	50	12/16/02	<50	<2	<50	<5	<5	18		<5	<5	<5	100	5 7	<5		<10	<5	<50
BL-8	0 5	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-8	10	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-8	20	12/13/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	5 2	<5	<5		<10	<5	<50
BL-9	5	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-9	10	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50
BL-9	15	12/17/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10	<5	<50

Sample	Sample Depth (feet bgs)	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	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)
US EPA Region 9 PRGs dated 10/01/02	Residential Soil	8,900	9,100	56,000	$2 4^{+5}$	1,500	$5 2^{+5}$	220,000	$3 9^{+5}$	730	$1 2^{+6}$	52,000	21,000	53	NA	NA	NA	0 22	NA
	Industrial Soil	20,000	21,000	190,000	$2 4^{+5}$	3,400	$5 2^{+5}$	220,000	$3 9^{+5}$	1,600	$1 2^{+6}$	170,000	70,000	110	NA	NA	NA	0 74	NA
BL-1	0 5	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-1	5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	<5
BL-1	10	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-1	20	<2	<50	<10	<5	11	<2	<5	<5	<5	<5	<5	<5	9.7	<2	<2	–	–	–
BL-1	30	<2	110	<10	<5	500	<2	<5	<5	<5	<5	<5	<5	570	<2	<2	–	–	–
BL-1	40	<2	130	<10	<5	630	<2	<5	<5	<5	<5	<5	<5	680	<2	<2	ND	<100	–
BL-1	50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	<5	730	<2	<2	–	–	–
BL-1	55	<2	150	<10	<5	370	<2	<5	<5	<5	<5	<5	<5	500	<2	<2	–	–	–
BL-1	60	<2	<50	<10	<5	1700	<2	<5	<5	<5	<5	<5	<5	3100	<2	<2	–	–	–
BL-2	0 5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BL-2	5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	<5
BL-2	10	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	100	<2	<2	–	–	–
BL-2	20	<2	<50	<10	<5	76	<2	<5	<5	<5	<5	<5	<5	100	<2	<2	–	–	–
BL-2	30	<2	<50	<10	<5	350	<2	<5	<5	<5	<5	<5	<5	440	<2	<2	–	–	–
BL-2	40	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	<5	660	<2	<2	ND	<100	–
BL-2	50	<2	<50	<10	<5	530	<2	<5	<5	<5	<5	<5	<5	900	<2	<2	–	–	–
BL-2	55	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	180	<2	<2	–	–	–
BL-2	60	<2	<50	<10	<5	390	<2	<5	<5	<5	<5	<5	<5	510	<2	<2	–	–	–
BL-3	5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–		–	55
BL-3	10	<2	<50	<10	<5	160	<2	<5	<5	<5	<5	<5	<5	240	<2	<2	–	–	–
BL-3	20	<2	<50	<10	<5	280	<2	<5	<5	<5	<5	<5	<5	370	<2	<2	–	–	–
BL-3	30	<2	<50	<10	<5	310	<2	<5	<5	<5	<5	<5	<5	490	<2	<2	–	–	–
BL-3	40	<2	<50	<10	<5	340	<2	<5	<5	<5	<5	<5	<5	390	<2	<2	ND	<100	–
BL-3	50	<2	53	<10	<5	860	<2	<5	<5	<5	<5	<5	<5	1000	<2	<2	–	–	–
BL-3	60	<2	100	<10	<5	370	<2	<5	<5	<5	<5	<5	<5	700	<2	<2	–	–	–
BL-4	5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	<5
BL-4	10	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	<5	65	<2	<2	–	–	–
BL-4	20	<2	<50	<10	<5	35	<2	<5	<5	<5	<5	<5	<5	33	<2	<2	–	–	–
BL-4	30	<2	<50	<10	<5	120	<2	<5	<5	<5	<5	<5	<5	280	<2	<2	–	–	–
BL-4	40	<2	67	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	180	<2	<2	ND	<100	–
BL-4	45	<2	<5	<10	<5	280	<2	<5	<5	<5	<5	<5	<5	210	<2	<2	–	–	–
BL-4	50	<2	140	<10	<5	890	<2	<5	<5	<5	<5	<5	<5	1000	<2	<2	–	–	–
BL-4	60	<2	<50	<10	<5	440	<2	<5	<5	<5	<5	<5	<5	710	<2	<2	–	–	–
BL-5	0 5	<2	<50	<10	<5	260	<2	<5	<5	<5	<5	<5	<5	65	<2	<2	–	–	–
BL-5	35	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5 2	<2	<2	ND	<100	–
BL-5	55	<2	<50	<10	<5	520	<2	<5	<5	<5	<5	<5	<5	850	<2	<2	–	–	–
BL-6	10	8000	<500	10000	8800	29000	4800	9800	620	<50	<50	85000	27000	1500	74000	31000	–	–	–
BL-6	25	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	<5	12	<2	<2	–	–	–
BL-6	40	<2	<50	<10	<5	20	<2	<5	<5	<5	<5	<5	<5	21	<2	<2	ND	<100	–
BL-6	50	<2	<50	13	<5	250	<2	<5	<5	<5	<5	8 9	<5	520	<2	<2	–	–	–
BL-7	5	<2	<50	<10	280	<5	<2	16	<5	<5	<5	<5	<5	<5	<2	<2	ND	<100	64
BL-7	15	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-7	45	<2	<50	<10	<5	68	<2	<5	<5	<5	<5	<5	<5	260	<2	<2	–	–	–
BL-7	50	<2	<50	<10	<5	200	<2	<5	<5	<5	<5	<5	<5	130	<2	<2	–	–	–
BL-8	0 5	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-8	10	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-8	20	<2	<50	<10	<5	26	<2	<5	<5	<5	<5	<5	<5	27	<2	<2	–	–	–
BL-9	5	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2		–	–
BL-9	10	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<2	–	–	–
BL-9	15	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	8 3	<2	<2	–	–	–

Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)

Sample	Sample Depth (feet bgs)	Arsenic non cancer endpoint	Arsenic cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead PRG	Lead CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
US EPA Region 9 PRGs dated 10/01/02	Residential Soil	22	0 39	5,400	150	210	900	3 100	400	150	0	390	1,600	390	390	550	23,000
	Industrial Soil	260	1 6	$6 7^{+4}$	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	4 2		120	<1	17	8 6	23	4 4		–	<5	10	<0 5	1 1	37	53
BL-1	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	20	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	30	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	40	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	55	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-1	60	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	0 5	2 2		98	<1	16	10	15	5		–	<5	7 3	<0 5	<1	35	37
BL-2	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	20	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	30	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	40	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	55	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-2	60	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	20	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	30	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	40	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-3	60	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	20	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	30	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	40	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	45	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-4	60	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-5	0 5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-5	35	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-5	55	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-6	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-6	25	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-6	40	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-6	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-7	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-7	15	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-7	45	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-7	50	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-8	0 5	3 6		110	<1	15	7.9	16	4 9		–	<5	8 2	<0 5	<1	32	38
BL-8	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-8	20	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-9	5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-9	10	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-9	15	–		–	–	–	–	–	–		–	–	–	–	–	–	–

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

Analyte — VOCs by EPA Method 8260B/5035 (Results in ug/Kg)

Sample	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
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		1.6^{+6}	600	NA	240,000	220,000	3,600	940	3.7^{+5}	3,400	280	43,000	1.2^{+5}	5.1^{+5}	2,800	NA	1.6^{+5}	NA	8,900	9,100	56,000	2.4^{+5}	1,500	5.2^{+5}	220,000	3.9^{+5}	730	1.2^{+6}	52,000	21,000	53	NA	NA
	Industrial Soil		6^{+6}	1,300	NA	240,000	220,000	1.2^{+4}	2,000	3.7^{+5}	7,900	600	150,000	4.1^{+5}	1.7^{+6}	6,000	NA	520	NA	20,000	21,000	190,000	2.4^{+5}	3,400	5.2^{+5}	220,000	3.9^{+5}	1,600	1.2^{+6}	170,000	70,000	110	NA	NA
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	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	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	78	<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	76	<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
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
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

Analyte (continued) — 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)

Sample	Sample Depth (feet bgs)	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418.1 (mg/kg)	Arsenic non cancer endpoint	Arsenic cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead PRG	Lead CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
US EPA Region 9 PRGs dated 10/01/02	Residential Soil	NA	0.22	NA	22	0.39	5,400	150	210	900	3,100	400	150	0	390	1,600	390	390	550	23,000
	Industrial Soil	NA	0.74	NA	260	1.6	6.7^{+4}	1,900	450	1,900	41,000	750	NA	0	5,100	20,000	5,100	5,100	7,200	100,000
BL-9	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-9	45	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-10	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-10	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	35	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	45	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-11	60	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	5	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	30	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-12	60DUP	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-13	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	30	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-14	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	0.5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	35	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-15	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	0.5	–	–	–	2.8		91		20	12	21	5.6		0.081	<5	14	<0.5	<1	42	63
BL-16	5	–	–	<5	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	30	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-16	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

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

Analyte — VOCs by EPA Method 8260B/5035 (Results in ug/Kg)

Sample	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-Dichloroethane	cis-1,2-Dichloroethene	1,1-Dichloroethene	1,1-Dichloroethane PRG	1,1-Dichloroethane CAL-Modified PRG	Isopropyltoluene
US EPA Region 9 PRGs dated 10/01/02	Residential Soil		1 6^{+5}	600	NA	240,000	220 000	3,600	940	3 7^{+5}	3,400	280	43,000	1 2^{+5}	5 1^{+5}	2,800	NA
	Industrial Soil		6^{+6}	1,300	NA	240,000	220,000	1 2^{+4}	2,000	3 7^{+5}	7,900	600	150 000	4 1^{+5}	1 7^{+6}	6,000	NA
BL-17	10	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	10DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	20	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	20DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	30	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	30DUP	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-17	40	12/24/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-18	0 5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-18	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-18	15	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-18	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	66	<5	<5		<10
BL-18	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	180	<5	<5		<10
BL-18	45	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-18	55	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	50	<5	<5		<10
BL-19	0 5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-19	5	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-19	15	12/11/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	7 1	<5	<5		<10
BL-19	25	12/11/02	<50	<2	<50	<5	<5	11		<5	<5	<5	43	<5	<5		<10
BL-19	35	12/11/02	<50	<2	<50	<5	<5	12		<5	<5	<5	74	<5	<5		<10
BL-19	45	12/11/02	<50	<2	<50	<5	<5	19		<5	<5	<5	110	<5	<5		<10
BL-19	55	12/11/02	<50	<2	<50	<5	<5	21		<5	<5	<5	130	<5	<5		<10
BL-20	0 5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	<5	<5	<5		<10
BL-20	5	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	8 2	<5	<5		<10
BL-20	10	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	36	<5	<5		<10
BL-20	25	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	330	<5	<5		<10
BL-20	35	12/12/02	<50	<2	<50	<5	<5	<5		<5	<5	<5	270	<5	<5		<10
BL-20	50	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1400	<5	<5		<10
BL-20	55	12/12/02	<50	<2	<50	<5	<5	10		<5	<5	<5	1000	<5	<5		<10

Sample	Sample Depth (feet bgs)	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
US EPA Region 9 PRGs – Residential Soil		1 6^{+5}	NA	8,900	9,100	56,000	2 4^{+5}	1,500	5 2^{+5}	220,000	3 9^{+5}	730	1 2^{+6}	52,000	21,000	53	NA	NA
US EPA Region 9 PRGs – Industrial Soil		520	NA	20 000	21,000	190,000	2 4^{+5}	3,400	5 2^{+5}	220,000	3 9^{+5}	1,600	1 2^{+6}	170,000	70,000	110	NA	NA
BL-17	10	<5	<50	<2	<50	<10	<5	8.1	<2	<5	<5	<5	<5	<5	<5	9 9	<2	<5
BL-17	10DUP	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	5 9	<2	<5
BL-17	20	<5	<50	<2	<50	<10	<5	17	<2	<5	<5	<5	<5	<5	<5	20	<2	<5
BL-17	20DUP	<5	<50	<2	<50	<10	<5	33	<2	<5	<5	<5	<5	<5	<5	43	<2	<5
BL-17	30	<5	<50	<2	<50	<10	<5	31	<2	<5	<5	<5	<5	<5	<5	50	<2	<5
BL-17	30DUP	<5	<50	<2	<50	<10	<5	34	<2	<5	<5	<5	<5	<5	<5	48	<2	<5
BL-17	40	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	0 5	<5	<50	<2	<50	<10	<5	29	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	5	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	15	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	25	<5	<50	<2	<50	<10	<5	10	<2	<5	<5	<5	<5	<5	<5	25	<2	<5
BL-18	35	<5	<50	<2	<50	<10	<5	21	<2	<5	<5	<5	<5	<5	<5	53	<2	<5
BL-18	45	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-18	55	<5	<50	<2	<50	<10	<5	13	<2	<5	<5	<5	<5	<5	<5	29	<2	<5
BL-19	0 5	<5	<50	<2	<50	<10	<5	270	<2	<5	<5	<5	<5	<5	<5	38	<2	<5
BL-19	5	<5	<50	<2	<50	<10	<5	24	<2	<5	<5	<5	<5	<5	<5	14	<2	<5
BL-19	15	<5	<50	<2	<50	<10	<5	96	<2	<5	<5	<5	<5	<5	<5	48	<2	<5
BL-19	25	<5	<50	<2	<50	<10	<5	360	<2	<5	<5	<5	<5	<5	<5	200	<2	<5
BL-19	35	<5	<50	<2	<50	<10	<5	540	<2	<5	<5	<5	<5	<5	<5	310	<2	<5
BL-19	45	<5	<50	<2	<50	<10	<5	410	<2	<5	<5	8 3	<5	<5	<5	520	<2	<5
BL-19	55	<5	<50	<2	<50	<10	<5	820	<2	<5	<5	<5	<5	<5	<5	890	<2	<5
BL-20	0 5	<5	<50	<2	<50	<10	<5	18	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	5	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	10	<5	<50	<2	<50	<10	<5	<5	<2	<5	<5	<5	<5	<5	<5	<5	<2	<5
BL-20	25	<5	<50	<2	<50	<10	<5	46	<2	<5	<5	<5	<5	<5	<5	38	<2	<5
BL-20	35	<5	<50	<2	<50	<10	<5	57	<2	<5	<5	<5	<5	<5	<5	35	<2	<5
BL-20	50	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	<5	380	<2	<5
BL-20	55	<5	<50	<2	<50	<10	<5	290	<2	<5	<5	<5	<5	<5	<5	420	<2	<5

Title 22 Metals by US EPA Method 6010B/7000 Series (mg/kg)

Sample	Sample Depth (feet bgs)	SVOC's by EPA Method 8270 (ug/Kg)	PCBs by EPA Method 8082 (mg/Kg)	TRPH by EPA Method 418 1 (mg/kg)	Arsenic non cancer endpoint	Arsenic cancer endpoint	Barium	Beryllium	Total Chromium	Cobalt	Copper	Lead PRG	Lead CAL-Modified PRG	Mercury (elemental)	Molybdenum	Nickel (soluble salts)	Selenium	Silver	Vanadium	Zinc
US EPA Region 9 PRGs – Residential Soil		NA	0 22	NA	22	0 39	5,400	150	210	900	3,100	400	150	0	390	1,600	390	390	550	23,000
US EPA Region 9 PRGs – Industrial Soil		NA	0 74	NA	260	1 6	6 7^{+4}	1,900	450	1,900	41,000	750	NA	0	5 100	20,000	5,100	5,100	7 200	100,000
BL-17	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	10DUP	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	20	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	20DUP	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	30	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	30DUP	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-17	40	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	0 5	–	–	–	3.3		110	1 1	25	9 6	17	6 7		–	<5	12	<0 5	1 1	51	62
BL-18	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	35	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	45	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-18	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	0 5	–	–	–	2.1		110	<1	16	10	16	5.1		–	<5	9 1	<0 5	<1	33	39
BL-19	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	15	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	35	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	45	ND	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-19	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	0 5	–	–	–	3		130	1 1	24	9 9	19	6 4		–	<5	13	0 78	1 3	50	52
BL-20	5	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	10	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	25	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	35	ND	<100	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	50	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–
BL-20	55	–	–	–	–		–	–	–	–	–	–		–	–	–	–	–	–	–

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
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
bgs - below ground surface
-- = Sample not analyzed
NA = not applicable

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 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.

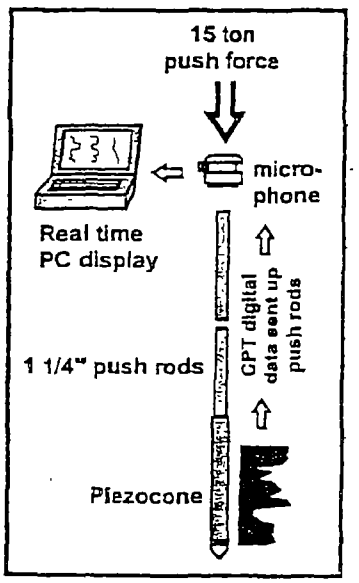


FIGURE 3.1 – CPT System

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,

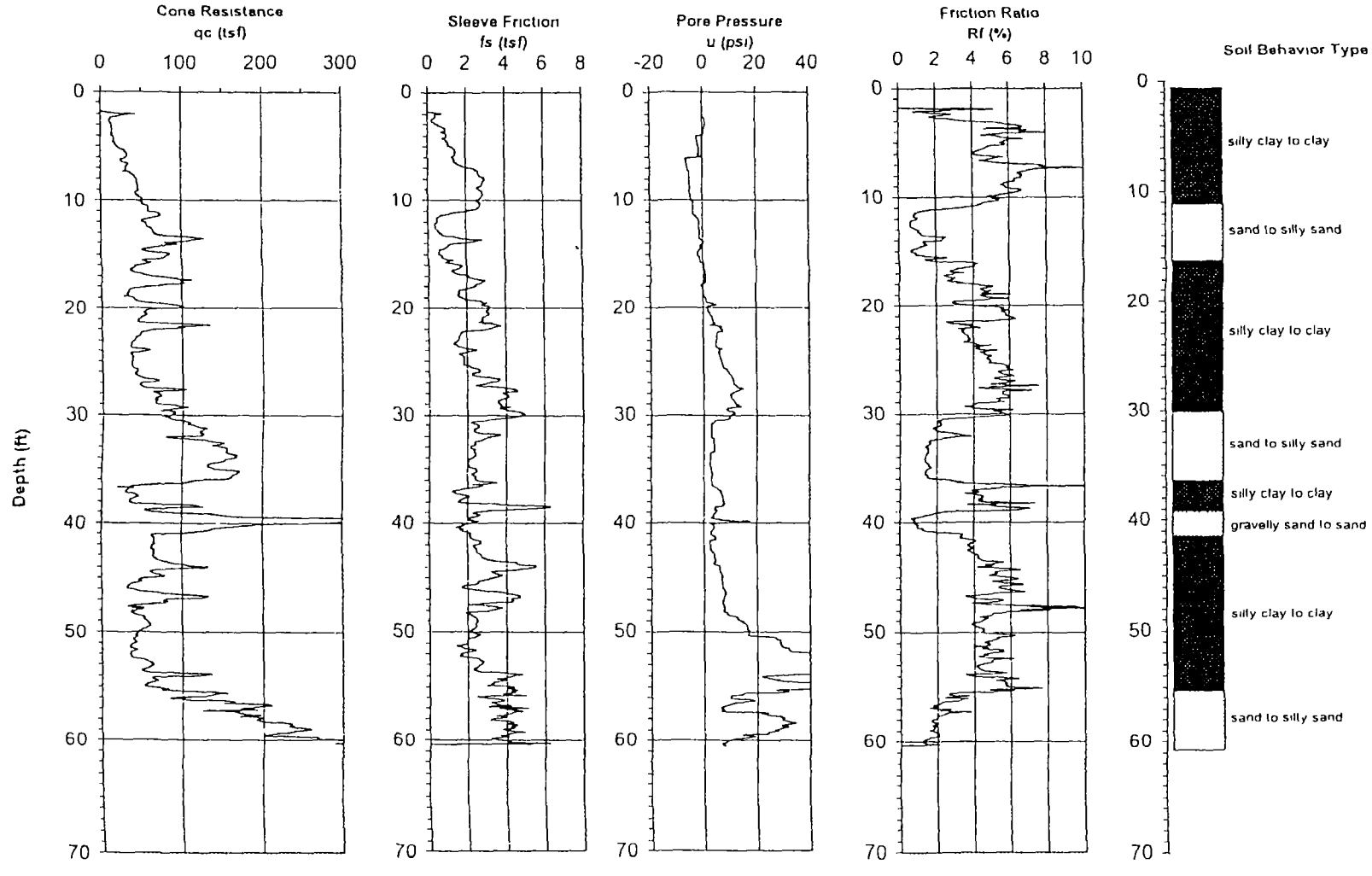
KEHOE TESTING & ENGINEERING

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



PACCAR 04379

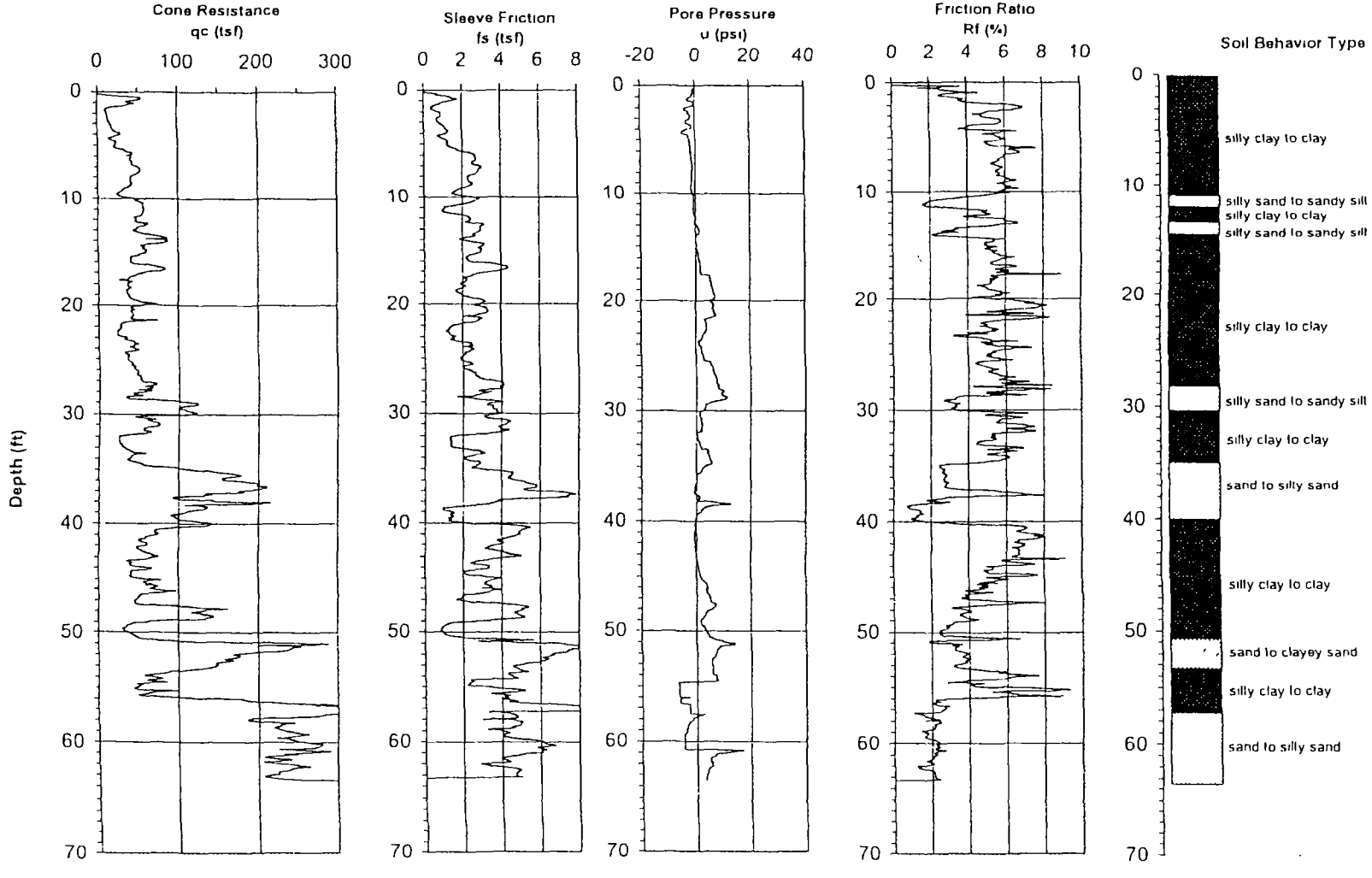
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-2

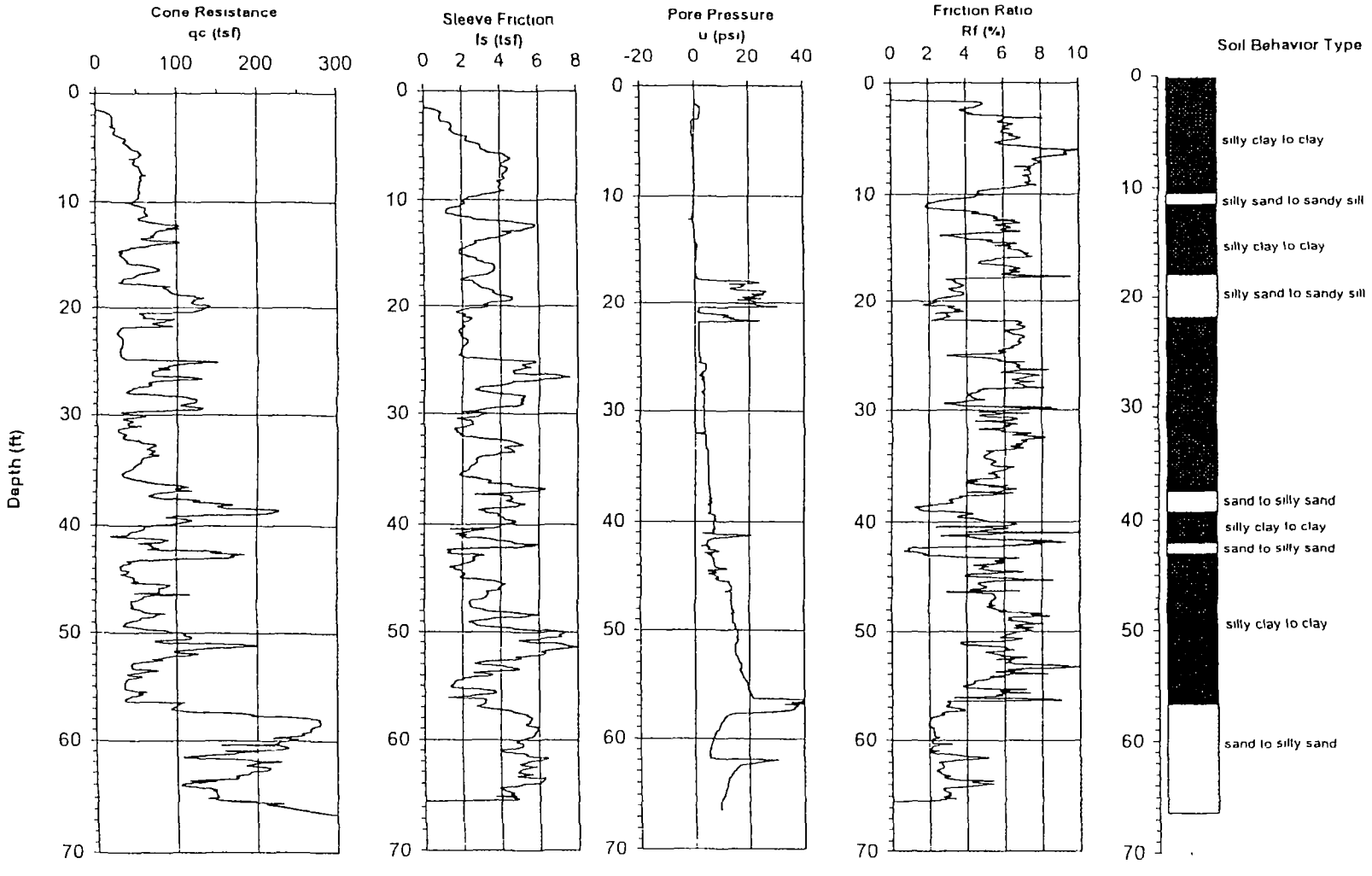
CPT Date : 4/3/00



PACCAR 04380

KEHOE TESTING & ENGINEERING

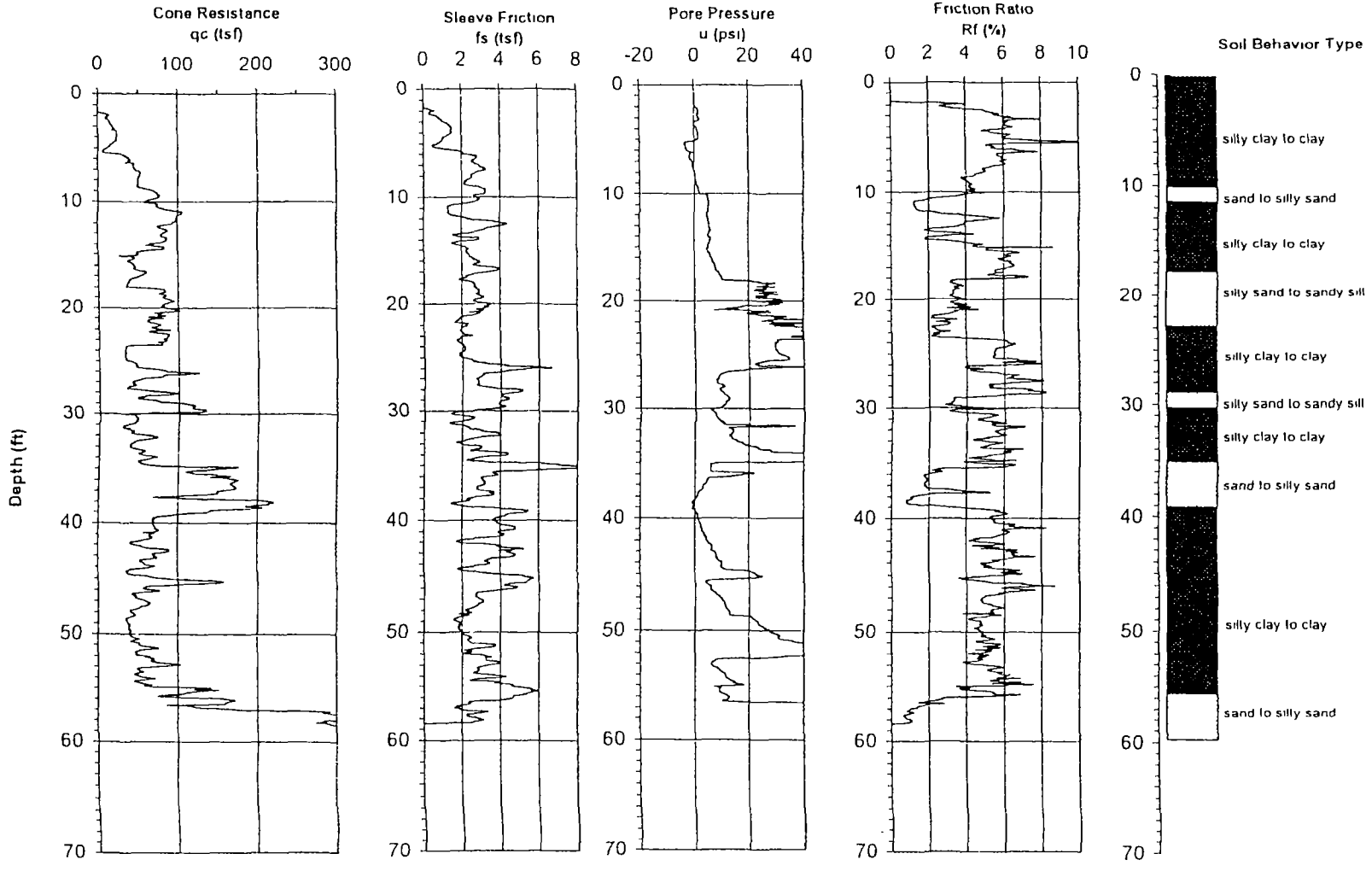
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-3	CPT Date :	4/3/00



PACCAR 04381

KEHOE TESTING & ENGINEERING

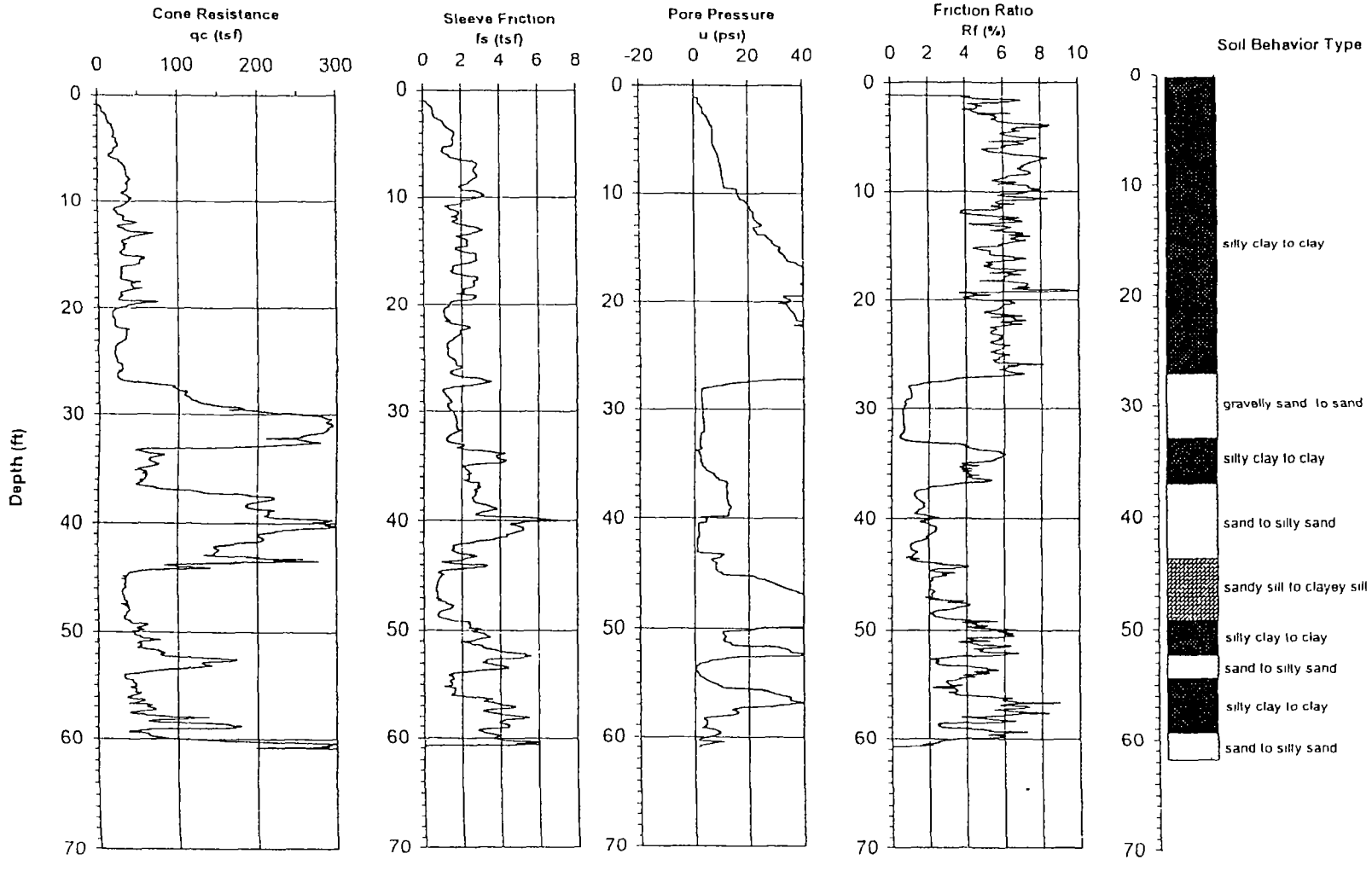
Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-4	CPT Date :	4/3/00



PACCAR 04382

KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-5	CPT Date :	4/4/00



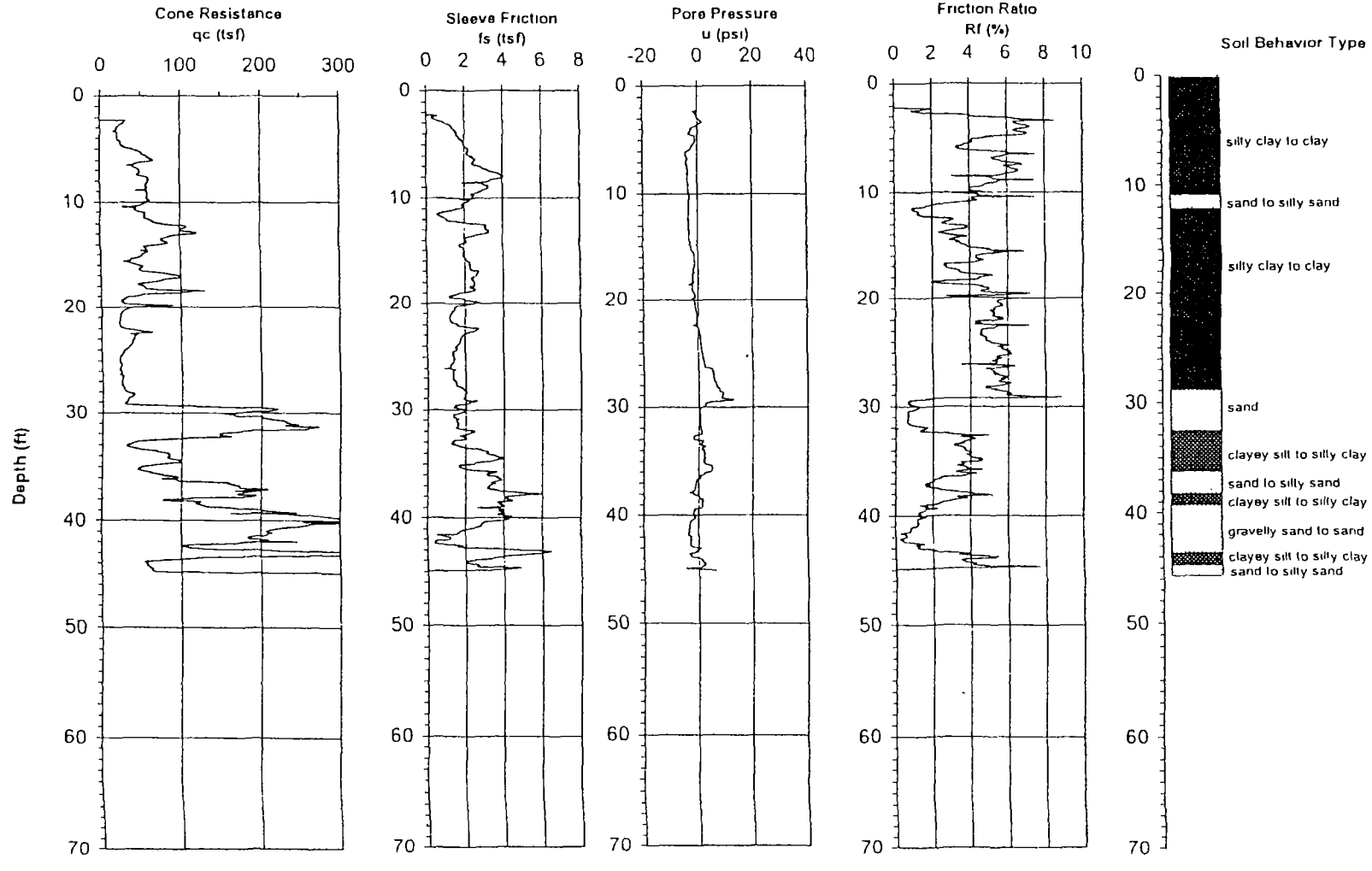
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-6

CPT Date : 4/4/00



PACCAR 04384

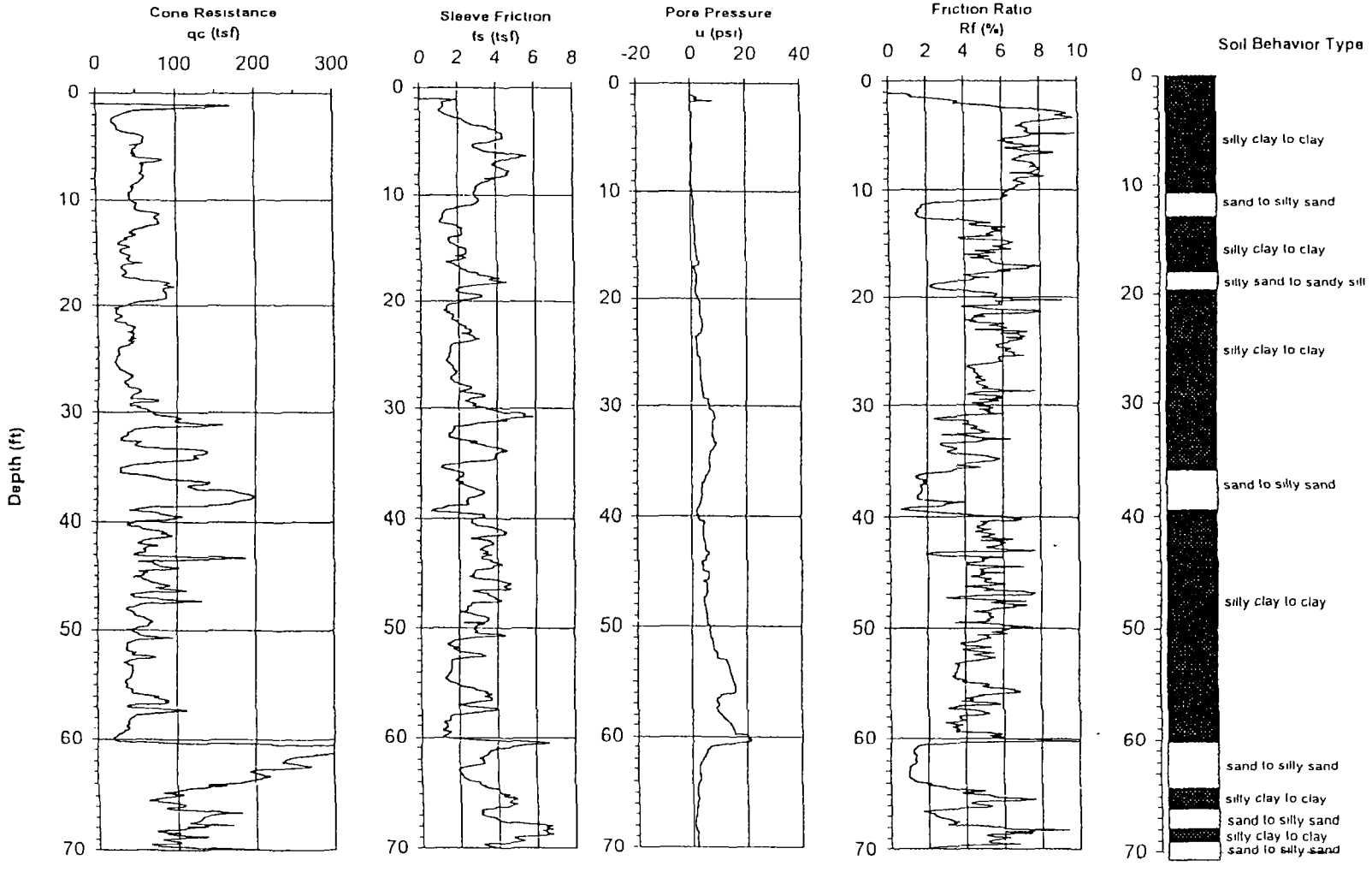
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-7

CPT Date : 4/4/00



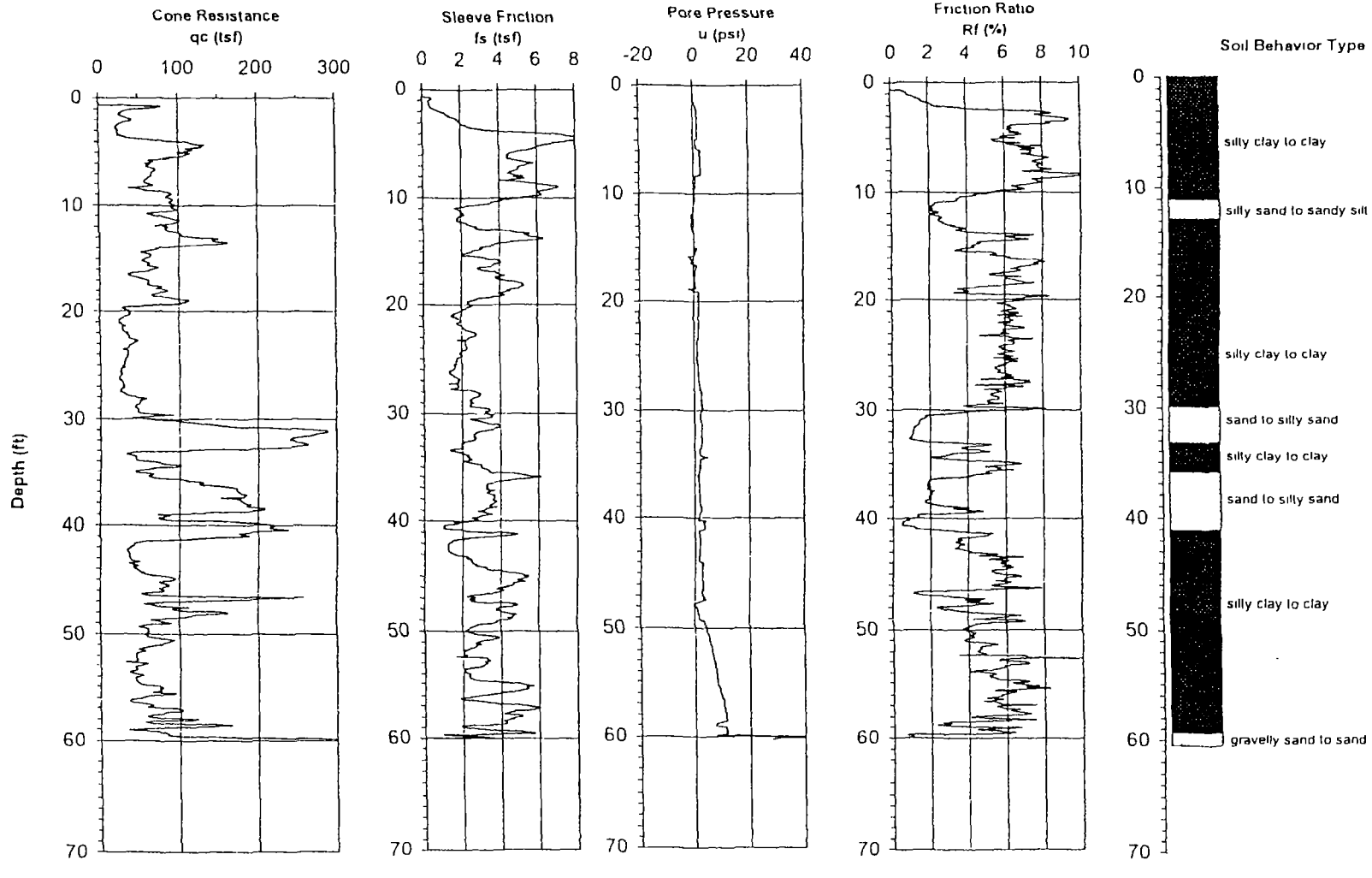
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-8

CPT Date : 4/4/00



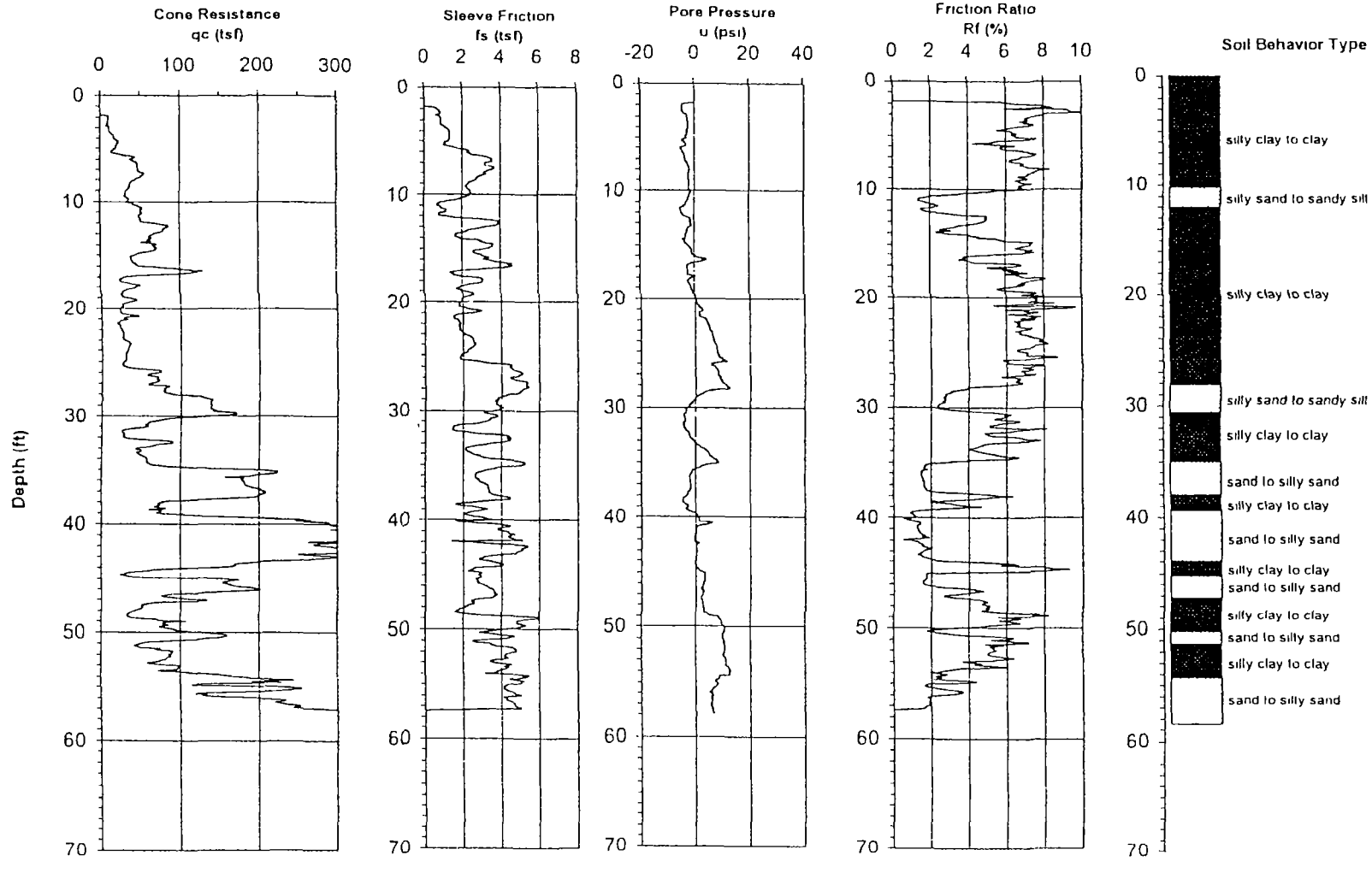
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-9

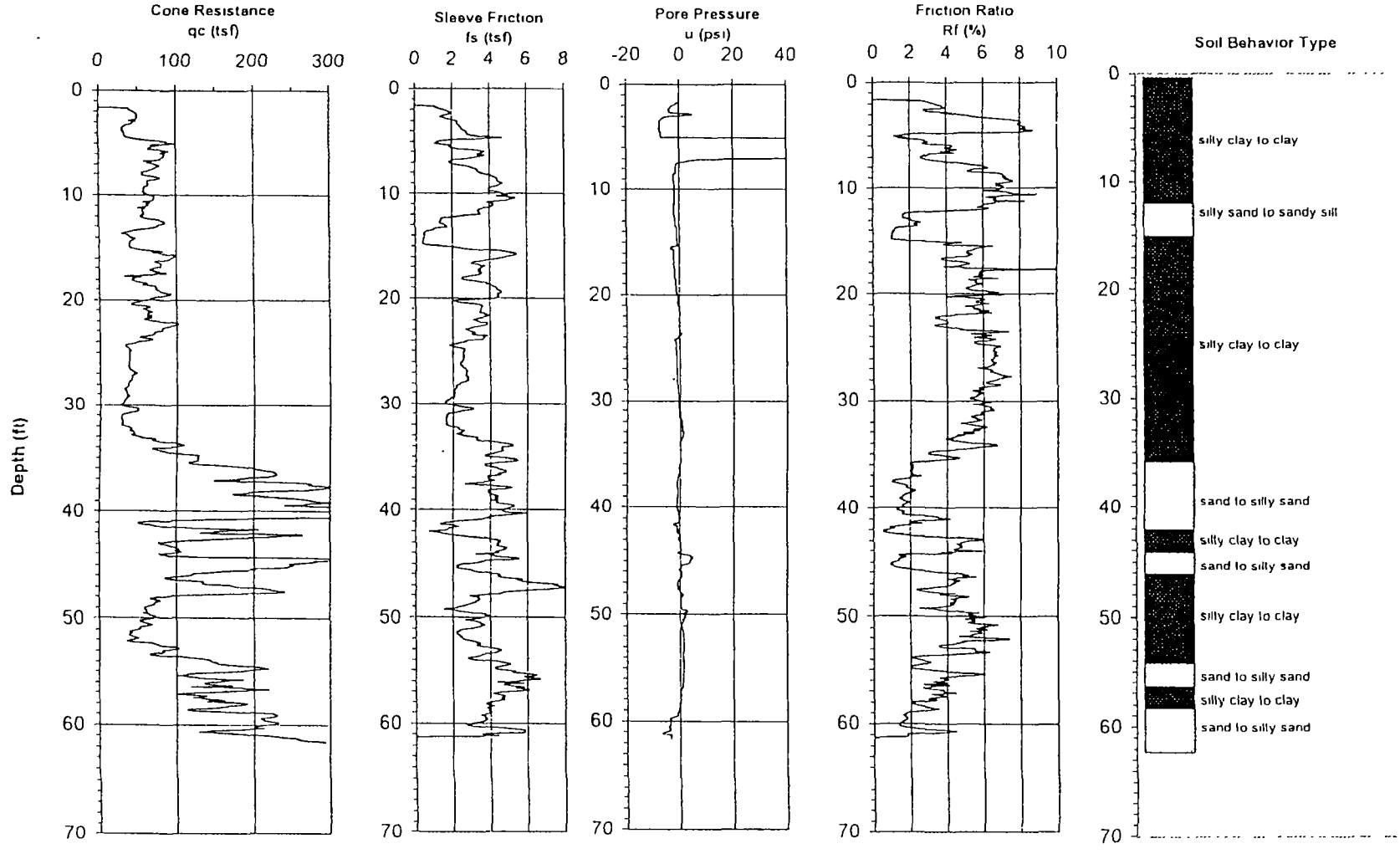
CPT Date : 4/5/00



PACCAR 04387

KEHOE TESTING & ENGINEERING

Project :	1206 West 196th St, Los Angeles	Client :	Hart Crowser
Location :	CPT-10	CPT Date :	4/6/00



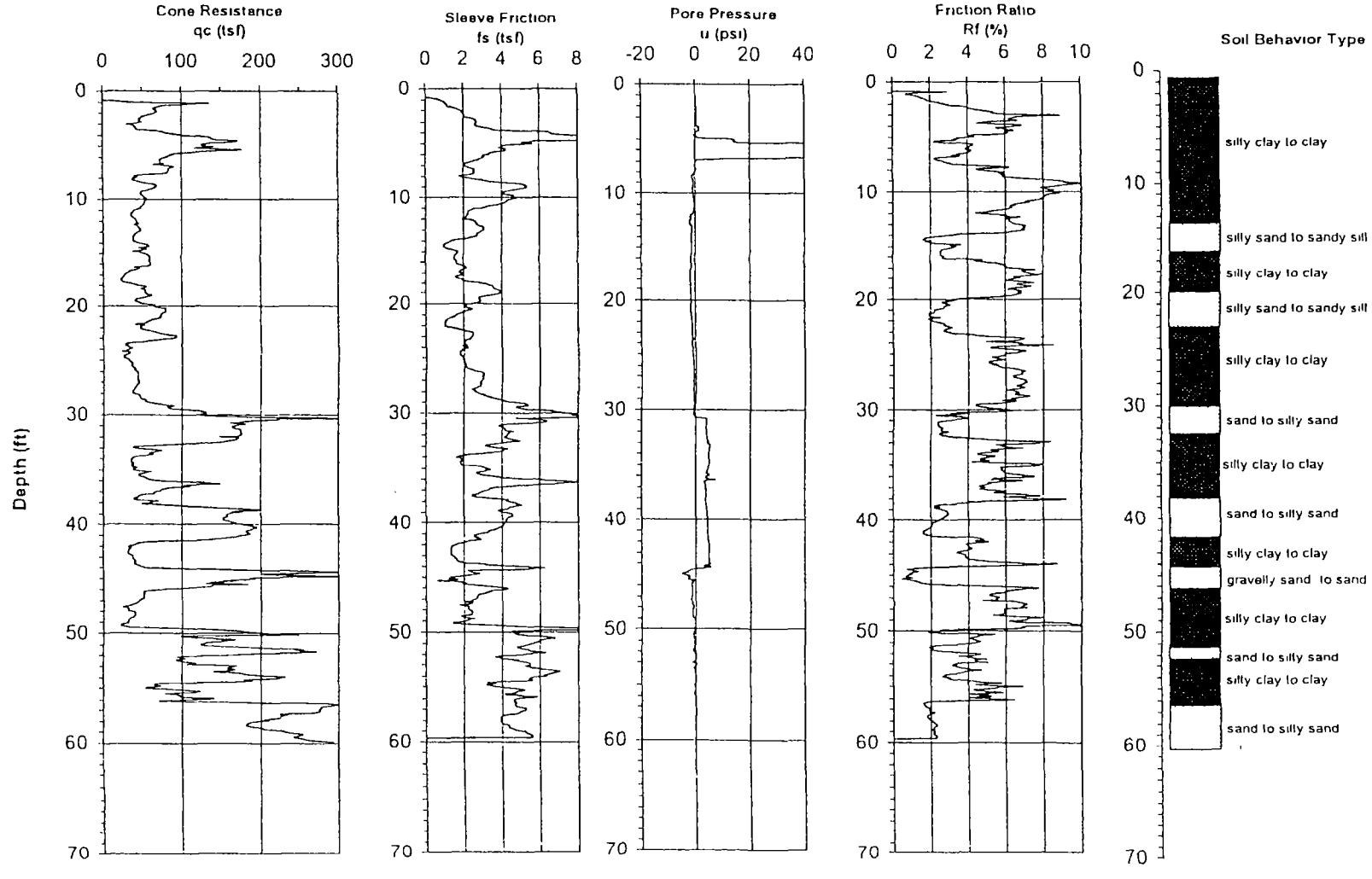
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

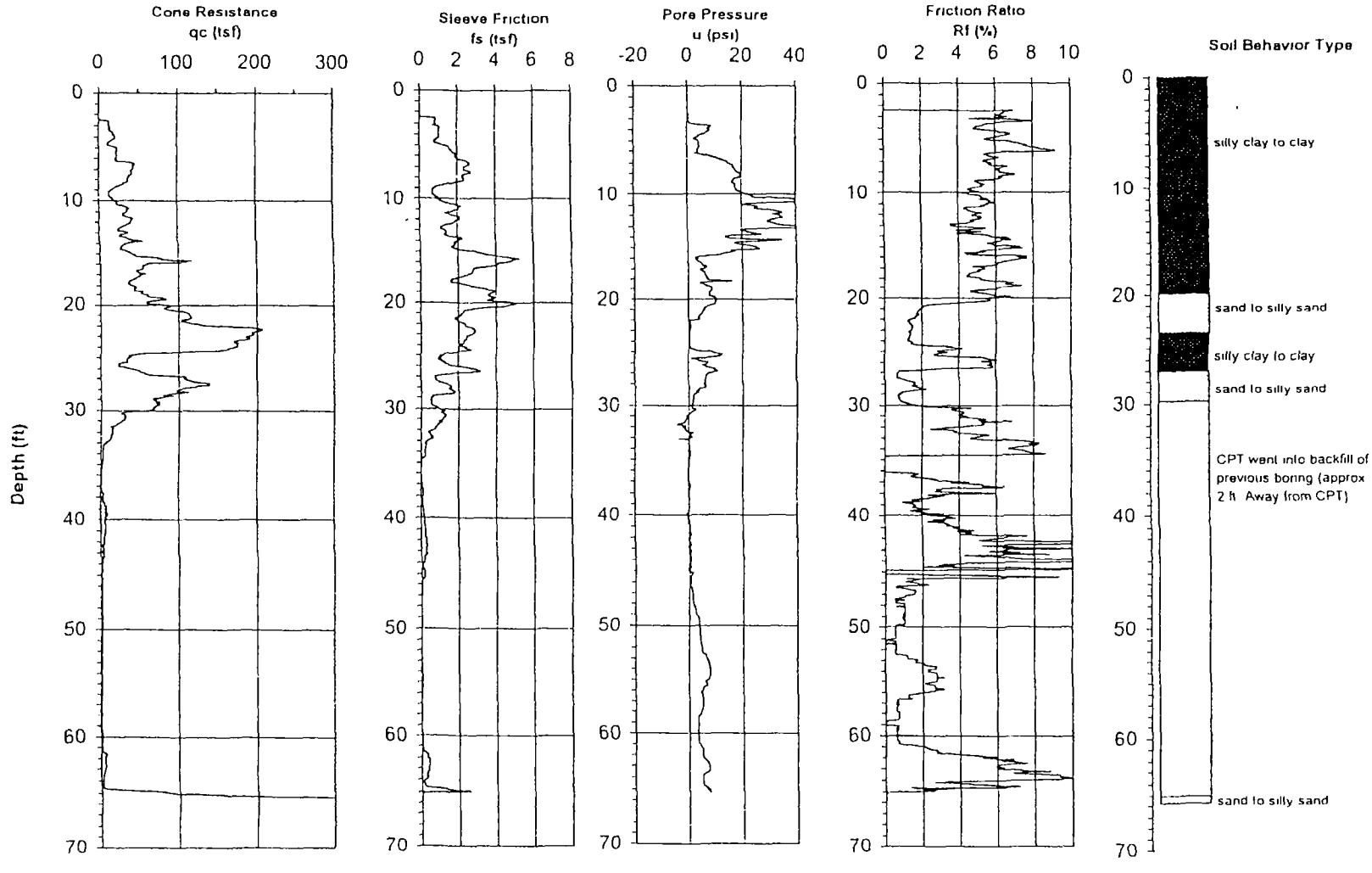
Location : CPT-11

CPT Date : 4/6/00



KTE
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles
Client : Hart Crowser
Location : CPT-12
CPT Date : 4/10/00



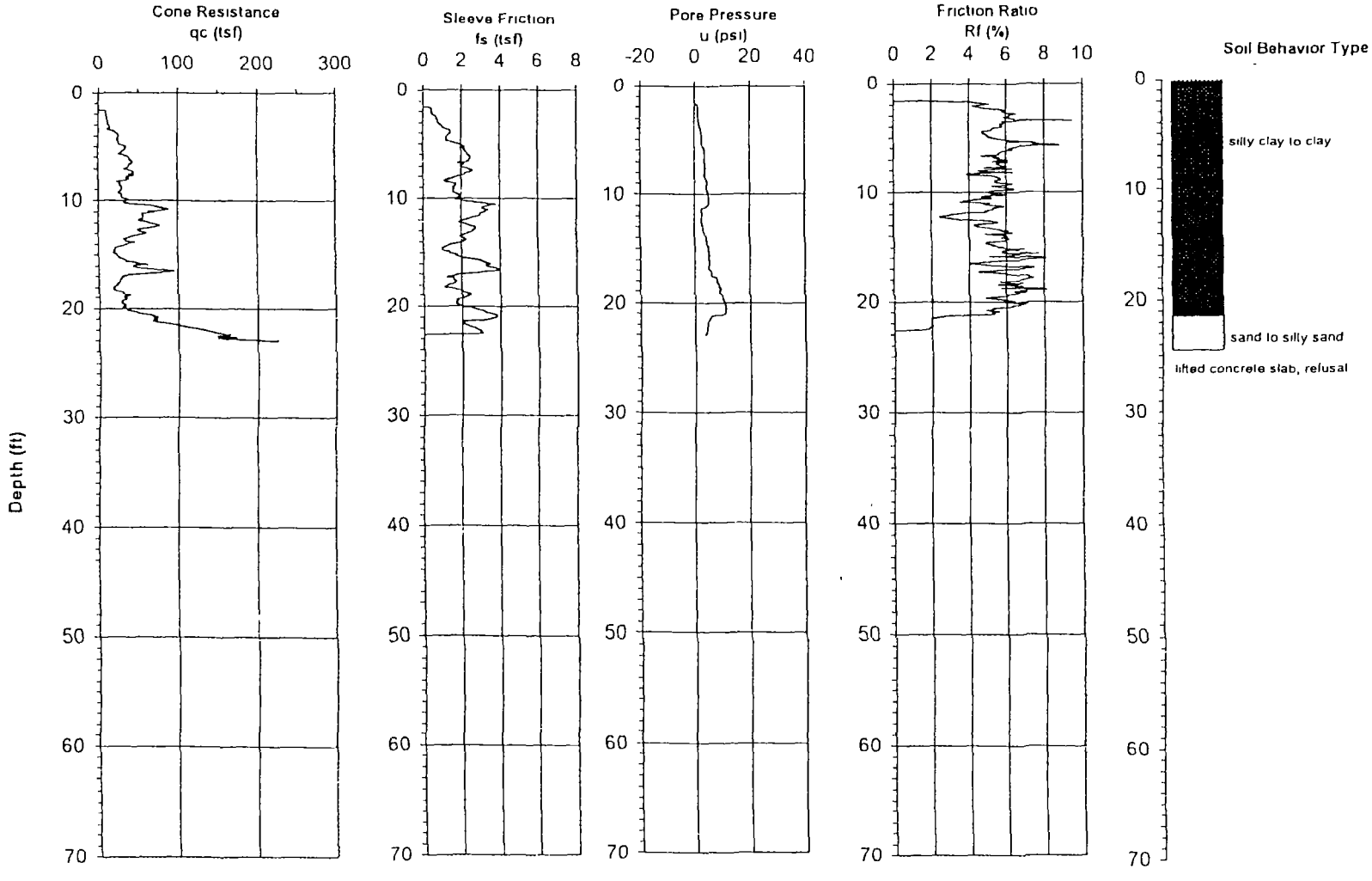
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-13

CPT Date : 4/10/00



PACCAR 04391

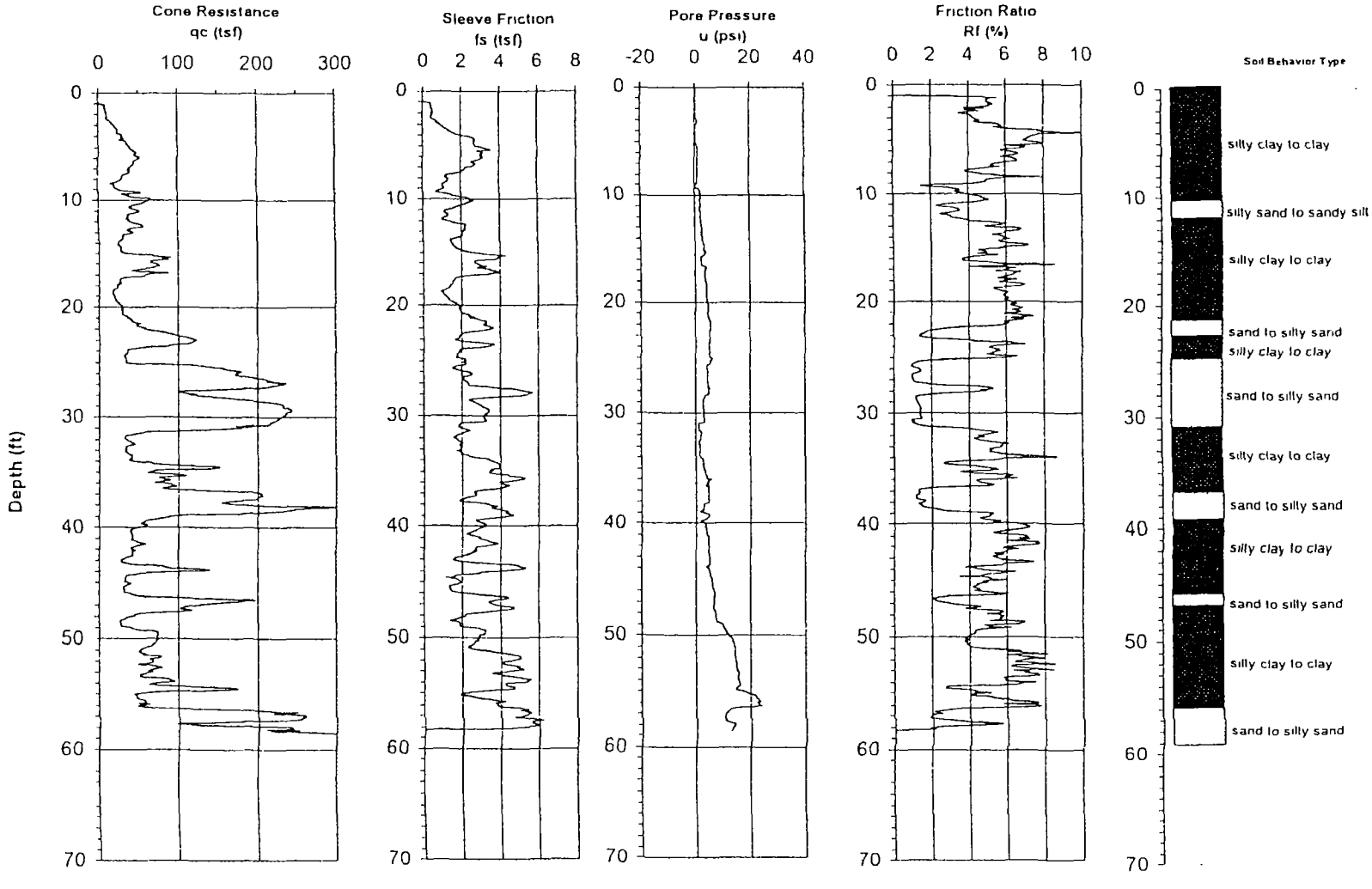
KEHOE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-14

CPT Date : 4/10/00



PACCAR 04392

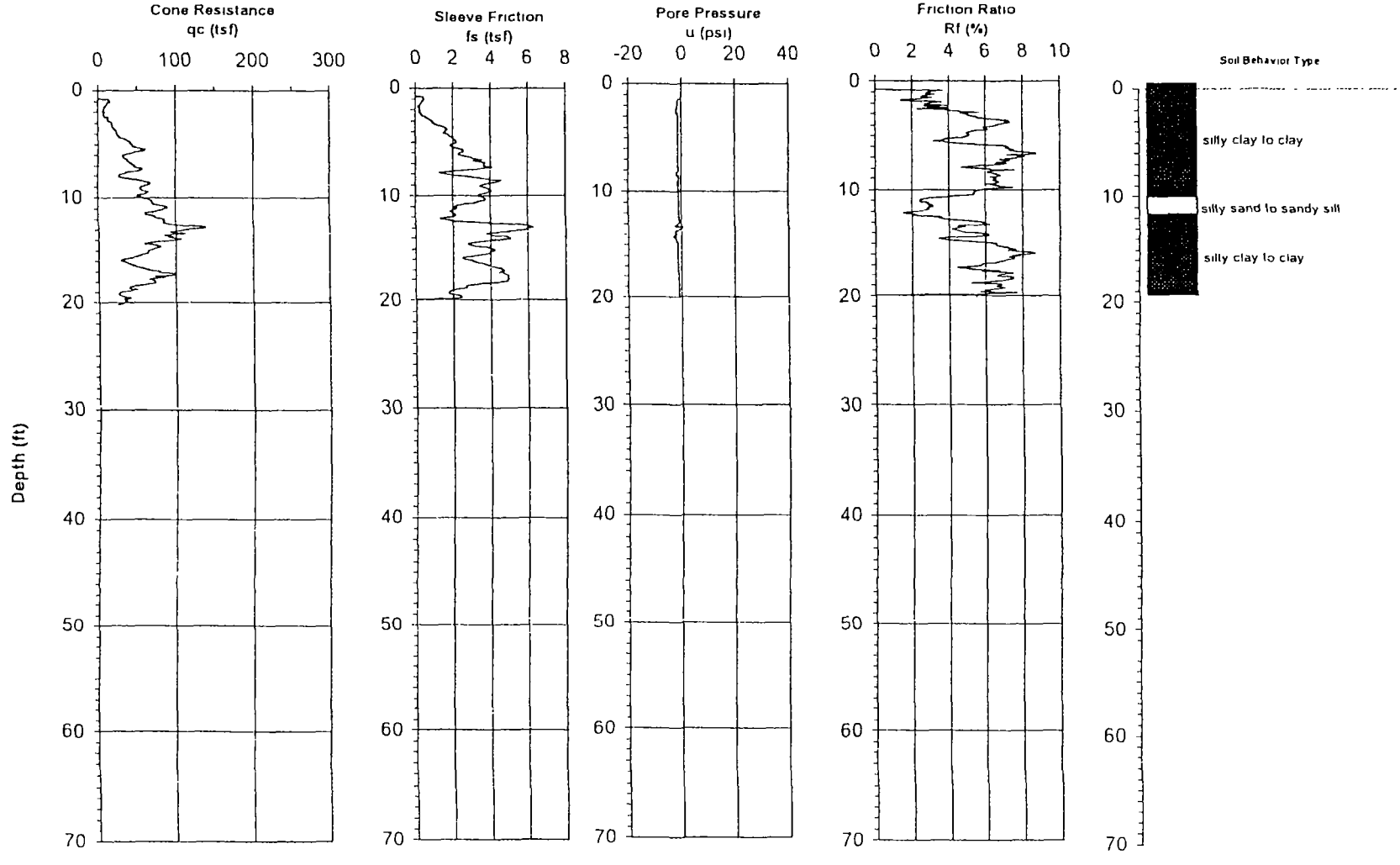
KENDE TESTING & ENGINEERING

Project : 1206 West 196th St, Los Angeles

Client : Hart Crowser

Location : CPT-15

CPT Date : 4/6/00

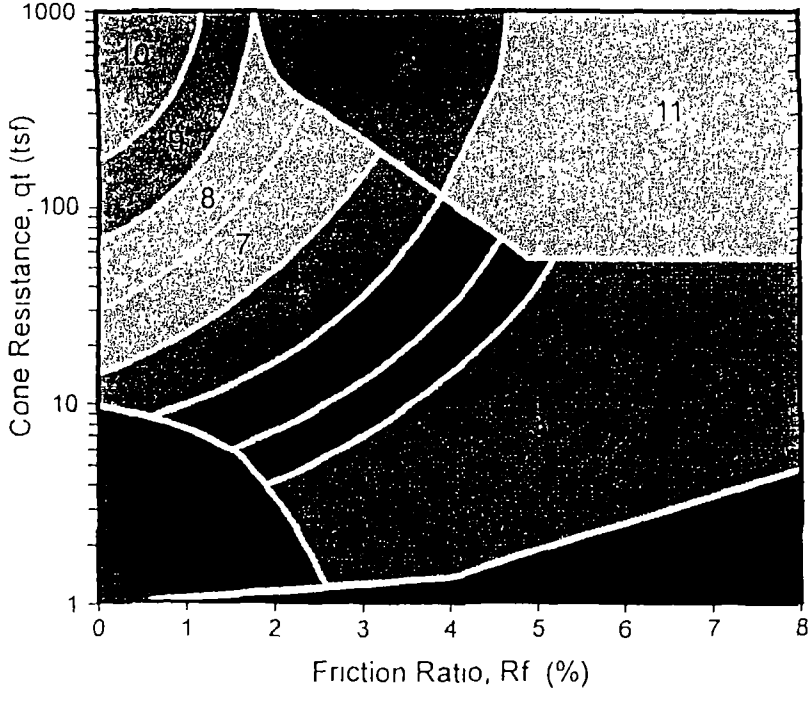


PACCAR 04393

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

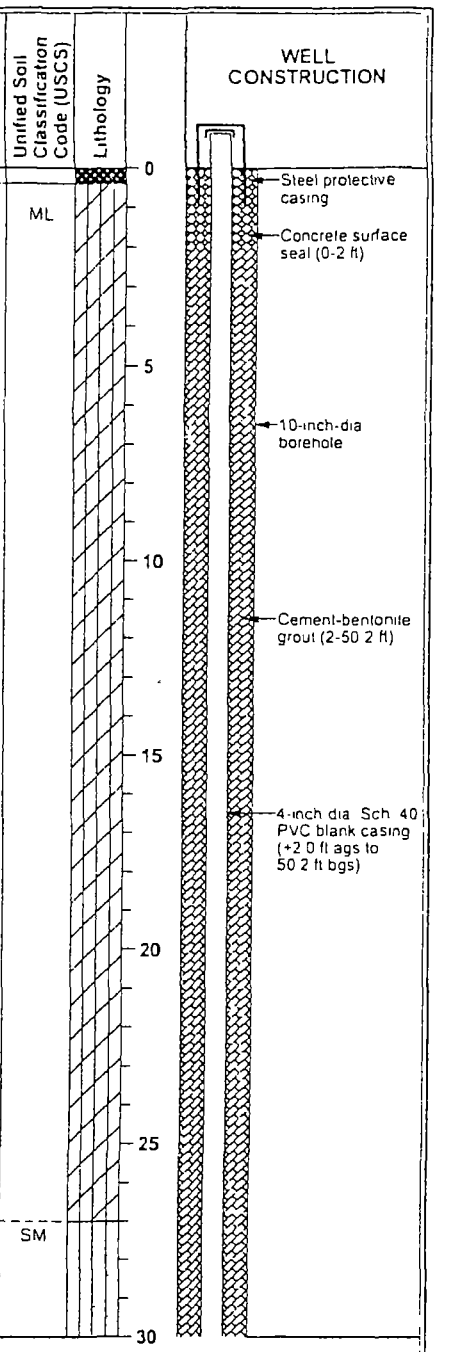
Project: PACCAR
Torrance, California

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
			12 13 17			
35	S	HCB-5-35		0 / 7 5		
					Olive (5Y 5/4), fine sandy SILT shell fragments throughout, moist, very stiff, no odor, no discoloration	ML
			13 12 14			
40	S	HCB 5-40		0 / 1 1	← Layer of shells, semi-consolidated	
					← Sugary texture	
			13 12 14			
45	S	HCB 5-45'		0 / 0		
					Olive gray (5Y 5/2), clayey SILT, sugary texture, no plasticity, red inclusions, micaceous, moist, very stiff, no odor, no discoloration	ML
			13 14 17			
50	S	HCB 5-50		0 / NA		
					Olive (5Y 5/3), clayey SILT, uniform, slight plasticity, micaceous, moist, very stiff no odor, no discoloration	ML
			10 12 14			
55	S	HCB-5-55		0 / 10		
			7 18 14			
60	S	HCB-5-60'		0 / 4		
			16 14 11		← Becomes olive brown (2 5Y 4/4), wet	
65	S	HCB-5-65'		0 / 1 4	Boring terminated at 65 0 feet bgs	

Lithology

WELL CONSTRUCTION

- 10-inch-dia borehole
- Cement bentonite grout (2-50 2 ft)
- 4 inch-dia Sch 40 PVC blank casing (+2 0 ft ags to 50 2 ft bgs)
- Hydrated medium bentonite pellets (50 2 53 2 ft)
- 4 inch-dia stainless steel blank casing (50 2-55 2 ft)
- Lonestar #2/16 filter sand (53 2-65 2 ft)
- 4 inch-dia stainless steel screen, 0 010 inch slot (55 2 65 2 ft)

Report HC4+WELL File PACCARTO GPJ 9/6/00

Project: PACCAR
Torrance, California

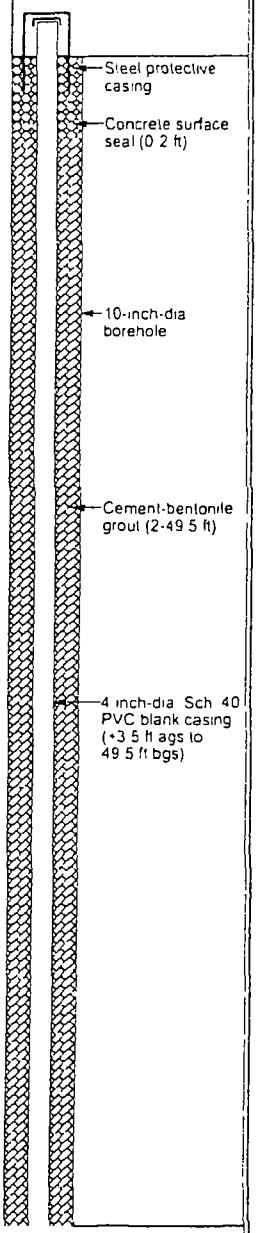
Project Number: 6905

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

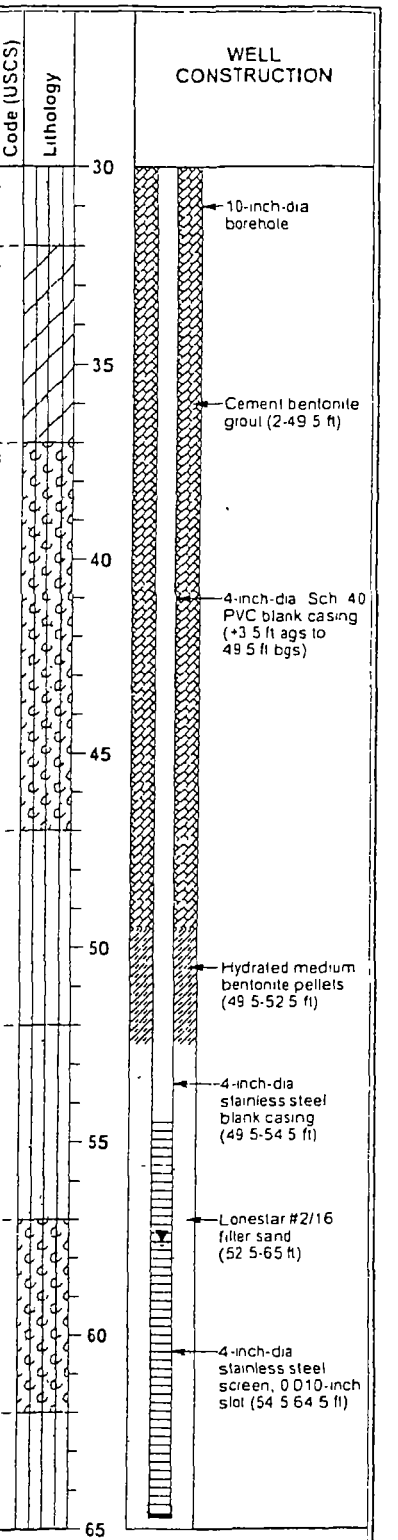
Project Number: 6905

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 9/6/00

Project: PACCAR
Torrance, California

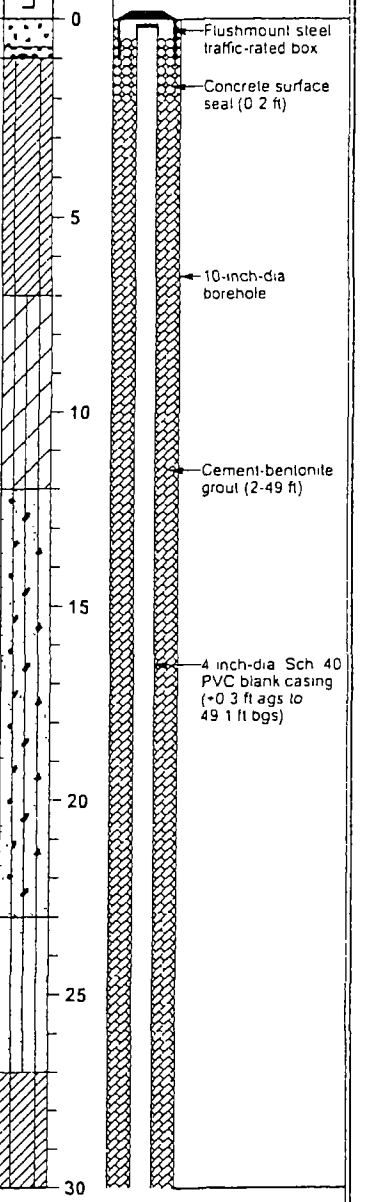
Project Number: 6905

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		



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 9/6/00

Project: PACCAR
Torrance, California

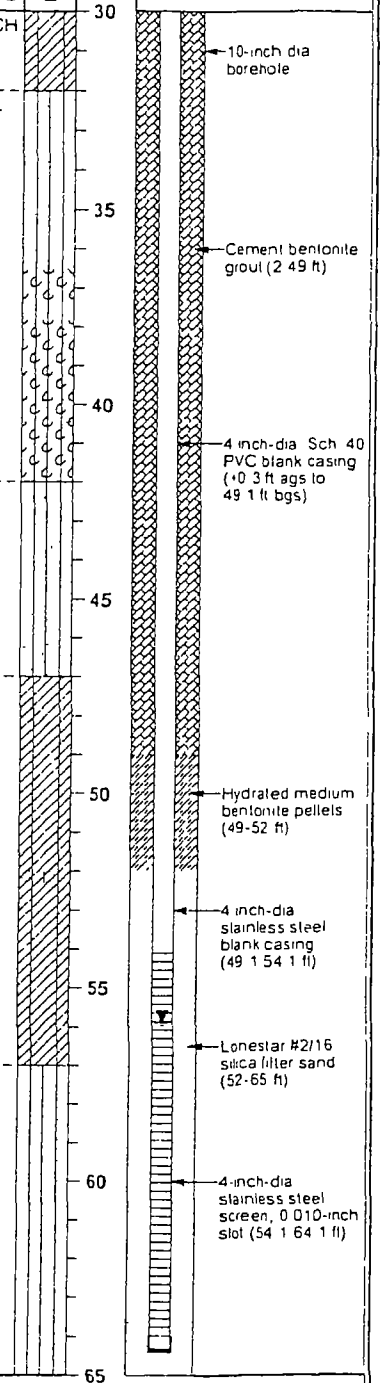
Project Number 6905

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

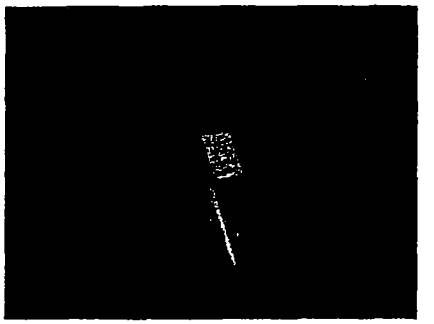
Log of Boring HCB-7 / MW-7

Sheet 2 of 2

HARTCROWSER

Appendix B

APPENDIX B
EN CORE PROCEDURES / FORMS



Instructions for Sample Collection Using The Power Handle

1. The blue plate should be in place on the Power Handle (flanges should be pointing to the round end of the handle) A 5g sample will be collected when the plate is in place.

2. Clip syringe into the Power Handle

3. Using the Power Handle, push the syringe into the soil to collect 5g sample

4. Unclip syringe from Power Handle and extrude 5g sample into vial.
5. Repeat process for each additional vial

6. A single syringe can be used to collect sample aliquots for each of the three vials.

7. Mark each sample container with your sample identification. Do not add any additional labels or tape to the pre-tared vials Store samples at 4°C VOCs must be analyzed within 14 days of collection.

8 A fourth container needs to be submitted to the laboratory for percent total solids determination. Fill the container provided to capacity If extractable organic analyses, i e., semi-volatiles, PNAs, or pesticides/PCBs will be performed, the fourth container should be a 4-oz. glass jar.

Note: Methanol is a flammable substance If samples will be shipped to the laboratory via couriers such as UPS or Federal Express, DOT labeling requirements must be met.

To meet DOT labeling requirements, the following statement must be affixed to the package:
"This package conforms to the conditions and limitations specified in 49CFR 173.4."
The CFR reference is 49 – Transportation, Part 173 – Shippers, General Requirements for Shipments and Packaging, Section 173 4 – Small Quantity Exceptions. In our opinion, the pertinent requirements of this reference are as follows:

- The maximum quantity of material per inner receptacle is limited to thirty (30) mL.
- Each inner receptacle is securely packed in an inside packaging with cushioning and absorbent material The inside packaging cannot react chemically with the material and needs to be capable of absorbing the entire contents of the receptacle *(Note the foam container in which the vials are placed meet these requirements)*
- The inside packaging is securely packed in a strong outside packaging *(Note the cooler meets this requirement)*

PACCAR 04404

- The gross mass of the completed package does not exceed 64 pounds.

An alternative to field preservation is the use of EnCore samplers (or equivalent) as collection and storage devices. Samples collected in this device must be preserved by the laboratory or analyzed within 48 hours of collection.

PACCAR 04405

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.

PACCAR 04416

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

www.hartcrowser.com

Anchorage
2550 Denali Street, Suite 705
Anchorage, Alaska 99503-2737
Fax 907.276.2104
Tel 907.276.7475

Boston
100 Cummings Center, Suite 347C
Beverly, Massachusetts 01915-6123
Fax 978.921.8164
Tel 978.921.8163

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 98020-8411
Fax 425.778.9417
Tel 425.775.4692

Eureka
1257 Main Street
Fortuna, California 95540
Fax 707.726.9146
Tel 707.726.9145

Jersey City
150 Warren Street, Second Floor
Jersey City, New Jersey 07302-6443
Fax 201.985.8182
Tel 201.985.6100

Long Beach
501 East Ocean Boulevard, Suit 1950
Long Beach, California 90802-4878
Fax 562.733.1750
Tel 562.733.1740

Portland
Five Centerpointe Drive, Suite 240
Lake Oswego, Oregon 97035-8652
Fax 503.620.6918
Tel 503.620.2784

Seattle
1910 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206.328.5581
Tel 206.324.9530

Printed on a minimum 10% recycled post consumer fiber

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

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) 468-7001

5 Transporter 1 Company Name: [illegible]

6 US EPA ID Number: [illegible]

A Transporter's Phone: [illegible]

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)	0 0 1	0 7	0 0 0 1 0	7
b				
c.				
d				

D Additional Descriptions for Materials Listed Above
[illegible]
PROFILE #AV0. 1504

E Handling Codes for Wastes Listed Above

15 Special Handling Instructions and Additional Information
SITE: PACCAR INC 10706 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	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

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
	[illegible]	[illegible]	[illegible]	[illegible]

GENERATOR

TRANSPORTER

FACILITY

Printed by J.L. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0868

T/S/D/F COPY

PACCAR 04421

(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	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

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

PROFILE NO
AV060504
MANIFEST NO.
PERMIT NO

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL	GATE FEE:	

#726026QPC (1-J)

The Reizon Company

PACCAR 04422

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

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) 453-7001

5 Transporter 1 Company Name: K & S Trucking

6 US EPA ID Number: LAR000116698

A. Transporter's Phone: (909) 688-5162

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) 223-5427

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	0006	Y
b				
c				
d.				Y

D Additional Descriptions for Materials Listed Above
a) JIT SOIL
PROFILE #AV050504

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 — RAVI LIMAYE
Signature: R S Limaye
Month 06 Day 15 Year 04

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Carlos Vasquez
Signature: [illegible]
Month 06 Day 18 Year 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: [illegible]
Month Day Year

Printed by: SFI KEUFER & ASSOCIATES, INC.
Model: WL495/0366

TRANSPORTER # 1

12-BLC-M5

PACCAR 04423

(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

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:		

#726026QPC (1-3) F

The Relizon Company

PACCAR 04424

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

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: [illegible] Trucking

6 US EPA ID Number: [illegible]

A Transporter's Phone: 702 708-0675

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) 273-3427

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	00010	T
b				
c				
d				

D Additional Descriptions for Materials Listed Above
a) 1) SOIL
PROFILE #[illegible]

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: AGENT FOR [illegible] PACCAR
Signature: [illegible]
Month / Day / Year: [illegible]

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] Rodriguez
Signature: [illegible]
Month / Day / Year: [illegible]

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:

GENERATOR

TRANSPORTER

FACILITY

Printed by: J. F. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

TRANSPORTER # 1

12-BLG-M5

PACCAR 04425

(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

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

PROFILE NO
AV060504

MANIFEST NO

PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL	GATE FEE:	

The Reizon Company

PACCAR 04426

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No

Manifest Document No

2 Page 1 of

3 Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4 Generator's Phone (425) 468-7501

5 Transporter 1 Company Name: MD Transport

6 US EPA ID Number: CAR 000174694

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
[illegible] 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	Day	Year
[illegible]		6	18	94

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
	[illegible]	6	18	94

GENERATOR

TRANSPORTER

FACILITY

Printed by KELLER & ASSOCIATES, INC.
Newport, WA 99567-0368

T/S/D/F COPY

12 BLC MS

PACCAR 04427

(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)

	Oper	Time	Date
In:	KEA	03:25 PM	06/18/2004
Out:	KEA	03:25 PM	06/18/2004

NET: 26.380

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

CUSTOMER
WM - Kettleman Landfill Hills
P.O. Box 471

Kettleman City CA 93239

PROFILE NO
AV060504

MANIFEST NO.

PERMIT NO.

LOAD CODE	LOAD DESCRIPTION	LOAD QUANTITY	AMOUNT
478	TPH Cover Soil	20.00	
	TOTAL GATE FEE:		

The Herizon Company

PACCAR 04428

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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) 828 7911

5 Transporter 1 Company Name: U.S. TRUCKING
6 US EPA ID Number: AZD001446494
A Transporter's Phone: 909 545 5274

7 Transporter 2 Company Name:
8 US EPA ID Number:
B Transporter's Phone:

9 Designated Facility Name and Site Address
ANTELOPE VALLEY LANDFILL
1700 WEST CITY RANCH ROAD
PALMDALE, CA 93551
10 US EPA ID Number:
C Facility's Phone: (661) 223-3427

GENERATOR

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	00010	T
b				
c				
d				

D Additional Descriptions for Materials Listed Above
BY TRUCK
PROFILE #A060506

E Handling Codes for Wastes Listed Above

15 Special Handling Instructions and Additional Information
SITE: PACCAR INC 19700 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

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature | Month | Day | Year

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19 Discrepancy Indication Space
[illegible]

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: [illegible] | Month | Day | Year

KENSY-T KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

T/S/L/F COPY

PACCAR 04429

(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%

#726026QPC (1-3) F

GROSS: 42.710
TARE: 16.000 (File)

	Oper	Time	Date
In:	KEA	10:52 AM	06/18/2004
Out:	KEA	10:52 AM	06/18/2004

NET: 26.710

The Reizon Company

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:		

PACCAR 04430

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: N/A

Manifest Document No:

2 Page 1 of 1

GENERATOR

3 Generator's Name and Mailing Address
PACCAR INC.
P.O. BOX 1518
BELLEVUE, WA 98009

4 Generator's Phone (425) 468-7401

5 Transporter 1 Company Name: [illegible]

6 US EPA ID Number: [illegible]

A Transporter's Phone: [illegible]

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 PARK ROAD
PALMDALE, CA 93551

10 US EPA ID Number:

C Facility's Phone: (661)223-7427

11 Waste Shipping Name and Description	12 Containers No	12 Containers Type	13 Total Quantity	14 Unit Wt/Vol
a NON-HAZARDOUS WASTE SOLID (SOIL)	001	DT	00001	T
b				
c				
d				

D Additional Descriptions for Materials Listed Above
a) LITSOIL
PROFILE #AV060004

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

TRANSPORTER

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 | Day | Year

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month | Day | Year

FACILITY

19 Discrepancy Indication Space
25 C4

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: [illegible] | Month | Day | Year

Blue Ink Keller & Associates, Inc. Nashville, WI 54957-0368

T/S/D/F COPY

4-42 BLC-MS

PACCAR 04431

(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		
LUC ID	County	ST Pct
LACITY	LA	CA 100%

GROSS: 41.040
TARE: 16.000 (File)

	Oper	Time	Date
In:	KEA	03:31 PM	06/18/2004
Out:	KEA	03:31 PM	06/18/2004

NET: 25.040

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:	

CUSTOMER

The Heilizon Company

P.O Box 1518, Bellevue WA 98009 – FAX 425-468-8213
Phone 425-468-7901 email fred.benz@paccar.com

PACCAR Inc

Fax

To:	Mr. Robert Heller	**From:**	Fred Benz
Fax:	714-771-2597	**Pages:**	32 + COVER
Phone:	714-771-5554	**Date:**	6/3/04
Re: Torrance		**CC:**	

☐ **Urgent** ☐ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

Robert,

Attached is the recent analytical results for the stockpile soil at our Trico Torrance facility. I have gone through the numbers and see no real issues, which appear to be non-hazardous per California and Federal standards. We want to arrange for disposal as soon as possible. Any questions, please give me a call to discuss.

Fred Benz, PE

425-468-7901

VOC's, SVOC's, METALS

Please advise if you have any question or comments. I can by reached at (425) 468 –7901, by fax at (425) 468 – 8213, or by email at fred.benz@paccar.com

Regards,

CONFIRMATION REPORT - MEMORY SEND

Time : JUN-03-04 09:38
Fax number: 425-468-8213
Name : PACCAR CORPORATE

Job	:	228
Date	:	JUN-03 09:31
To	:	917147712597
Doc pages	:	33
Start time	:	JUN-03 09:31
End time	:	JUN-03 09:38
Pages sent	:	33
Job:228		*** SEND SUCCESSFUL ***

PACCAR Inc

Phone: 425-468-7901 email: fred.benz@paccar.com

Fax

To: Mr. Robert Heller From: Fred Benz

Fax: 714-771-2597 Pages: 32 + Cover

Phone: 714-771-5554 Date: 6/3/04

Re: Terrance CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Robert,

Attached is the recent analytical results for the stockpile soil at our Trico Torrance facility. I have gone through the numbers and see no real issues, which appear to be non-hazardous per California and Federal standards. We want to arrange for disposal as soon as possible. Any questions, please give me a call to discuss

Fred Benz, PE

425-468-7901

VOC's, SVOC's, MEDALS

Please advise if you have any question or comments. I can by reached at (425) 468-7901, by fax at (425) 468-8213, or by email at fred.benz@paccar.com

Regards,

PACCAR 04434

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:						
1,1,2-Trichloroethane	ND	ND	ND	ND	1 0	ug/Kg
Trichloroethylene 110 ppb	**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 170,000 ppb	ND	**5400***	ND	ND	1 0	ug/Kg
1,3,5-Trimethylbenzene 70,000 ppb	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

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 240,000ppb	ND	**320**	ND	ND	1.0	ug/Kg
tert-Butylbenzene 220,000ppb	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

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
Chloroform	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

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 20000 ppb	ND	**2000***	ND	ND	1 0	ug/Kg
Hexachlorobutadiene	ND	ND	ND	ND	1 0	ug/Kg
Isopropylbenzene 520 ppb	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 190,000 ppb	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

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

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

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

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

FACSIMILE COVER PAGE

To :	**Fred**	**From :**	Jones
Sent :	5/26/2004 at 4:25:42 PM	**Pages :**	8 (including Cover)
Subject :	PACCAR REPORT REQUESTED		

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

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

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

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 260/1.6	6.4	1.0		mg/Kg	1	5/15/2004
Barium 67000	100	1.0		mg/Kg	1	5/15/2004
Beryllium 1900	ND	1.0		mg/Kg	1	5/15/2004
Cadmium	ND	1.0		mg/Kg	1	5/15/2004
Chromium 450	24	1.0		mg/Kg	1	5/15/2004
Cobalt 1900	10	1.0		mg/Kg	1	5/15/2004
Copper 41,000	21	1.0		mg/Kg	1	5/15/2004
Lead 750	10	1.0		mg/Kg	1	5/15/2004
Molybdenum 5100	ND	1.0		mg/Kg	1	5/15/2004
Nickel 29000	15	1.0		mg/Kg	1	5/15/2004
Selenium 5100	5.0	1.0		mg/Kg	1	5/15/2004
Silver 5100	ND	1.0		mg/Kg	1	5/15/2004
Thallium	ND	1.0		mg/Kg	1	5/15/2004
Vanadium 7200	44	1.0		mg/Kg	1	5/15/2004
Zinc 100,000	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

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: JG
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

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
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
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: *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
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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: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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
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Advanced Technology Laboratories

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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	ND	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	ND	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

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-01
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:30:00 PM
Lab ID:	068933-003A	**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	2.4	1.0		mg/Kg	1	5/15/2004
Banum	130	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	21	1.0		mg/Kg	1	5/15/2004
Cobalt	11	1.0		mg/Kg	1	5/15/2004
Copper	14	1.0		mg/Kg	1	5/15/2004
Lead	24	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	16	1.0		mg/Kg	1	5/15/2004
Selenium	4.5	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	140	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

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45:00 PM
Lab ID:	068933-004A	**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

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45:00 PM
Lab ID:	068933-004A	**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	ND	330		µg/Kg	1	5/14/2004
Butylbenzylphthalate	ND	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

Date: *17-May-04*

CLIENT:	Hart Crowser, Inc.	**Client Sample ID:**	SP-CL-02
Lab Order:	068933		
Project:	PACCAR-BLDG & CLARIFIER AREA EXCA	**Collection Date:**	5/11/2004 12:45:00 PM
Lab ID:	068933-004A	**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	4.1	1.0		mg/Kg	1	5/15/2004
Barium	85	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	14	1.0		mg/Kg	1	5/15/2004
Cobalt	7.3	1.0		mg/Kg	1	5/15/2004
Copper	14	1.0		mg/Kg	1	5/15/2004
Lead	17	1.0		mg/Kg	1	5/15/2004
Molybdenum	ND	1.0		mg/Kg	1	5/15/2004
Nickel	10	1.0		mg/Kg	1	5/15/2004
Selenium	3.2	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	28	1.0		mg/Kg	1	5/15/2004
Zinc	89	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	S - Spike/Surrogate outside of limits due to matrix interfere
	J - Analyte detected below quantitation limits	H - Sample exceeded analytical holding time
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	Results are wet unless otherwise specified

Advanced Technology Laboratories

Date: *17-May-04*

CLIENT: Hart Crowser, Inc.
Work Order: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	MB-18227	SampType	MBLK	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040514E
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B	(EPA 3050A)		Analysis Date.	5/14/2004	SeqNo	564611

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	ND	1.0									

Sample ID	MB-18227	SampType	MBLK	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040515A
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B	(EPA 3050A)		Analysis Date	5/15/2004	SeqNo	564833

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0									
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									

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: 068933
Project: *PACCAR-BLDG & CLARIFIER AREA EXCA*

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	MB-18227	SampType	MBLK	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040515A
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B		(EPA 3050A)	Analysis Date	5/15/2004	SeqNo	564833

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	1 0									
Molybdenum	ND	1 0									
Nickel	ND	1.0									
Selenium	ND	1 0									
Silver	ND	1 0									
Thallium	ND	1 0									
Vanadium	ND	1 0									
Zinc	ND	1.0									

Sample ID	LCS-18227	SampType	LCS	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040514E
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B		(EPA 3050A)	Analysis Date	5/14/2004	SeqNo	564615

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	54 05	2.0	50	0	108	80	120	0	0		
Arsenic	57.3	1.0	50	0	115	80	120	0	0		
Barium	51.74	1 0	50	0	103	80	120	0	0		
Beryllium	56 72	1 0	50	0	113	80	120	0	0		
Cadmium	51 31	1 0	50	0	103	80	120	0	0		
Chromium	52 29	1 0	50	0	105	80	120	0	0		
Cobalt	52 6	1 0	50	0	105	80	120	0	0		
Copper	52 16	2.0	50	0	104	80	120	0	0		
Lead	50 61	1.0	50	0	101	80	120	0	0		
Molybdenum	52 05	1 0	50	0	104	80	120	0	0		
Nickel	50.61	1 0	50	0	101	80	120	0	0		
Selenium	56 28	1 0	50	0	113	80	120	0	0		
Silver	52.21	1 0	50	0	104	80	120	0	0		
Thallium	51 3	1 0	50	0	103	80	120	0	0		
Vanadium	52.91	1 0	50	0	106	80	120	0	0		
Zinc	51 46	1 0	50	0	103	80	120	0	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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID	LCS-18227	SampType	LCS	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040515A
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B		(EPA 3050A)	Analysis Date	5/15/2004	SeqNo	564834

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	47 92	2.0	50	0	95 8	80	120	0	0		
Arsenic	52 7	1 0	50	0	105	80	120	0	0		
Barium	51 48	1 0	50	0	103	80	120	0	0		
Beryllium	48 44	1 0	50	0	96 9	80	120	0	0		
Cadmium	47.83	1 0	50	0	95 7	80	120	0	0		
Chromium	51.31	1 0	50	0	103	80	120	0	0		
Cobalt	47 49	1 0	50	0	95	80	120	0	0		
Copper	49.73	2 0	50	0	99 5	80	120	0	0		
Lead	46.05	1 0	50	0	92 1	80	120	0	0		
Molybdenum	50 11	1 0	50	0	100	80	120	0	0		
Nickel	47.21	1 0	50	0	94 4	80	120	0	0		
Selenium	49 1	1 0	50	0	98.2	80	120	0	0		
Silver	48 68	1.0	50	0	97 4	80	120	0	0		
Thallium	44 79	1 0	50	0	89 6	80	120	0	0		
Vanadium	50 89	1 0	50	0	102	80	120	0	0		
Zinc	47 6	1 0	50	0	95.2	80	120	0	0		

Sample ID	068943-011AMS	SampType	MS	TestCode	6010_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	ICP5_040514E
Client ID	ZZZZZ	Batch ID	18227	TestNo	EPA 6010B		(EPA 3050A)	Analysis Date	5/14/2004	SeqNo	564618

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	20	125	0	0	23	118	0	0		S
Arsenic	89 88	20	125	0	71 9	64	111	0	0		
Barium	107.1	20	125	0	85 7	36	146	0	0		
Beryllium	101 7	20	125	0	81.4	50	120	0	0		
Cadmium	156 4	20	125	74.85	65.2	62	107	0	0		
Chromium	103 2	20	125	11.75	73.2	63	119	0	0		
Cobalt	111 4	20	125	15 1	77	63	111	0	0		
Copper	226 1	20	125	229 2	-2 47	58	136	0	0		S
Lead	219 3	20	125	156	50 6	47	125	0	0		

Qualifiers.
ND - Not Detected at the Reporting Limit
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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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID 068943-011AMS	SampType MS	TestCode 6010_S	Units mg/Kg	Prep Date 5/13/2004	Run ID ICP5_040514E
Client ID ZZZZZ	Batch ID 18227	TestNo EPA 6010B	(EPA 3050A)	Analysis Date 5/14/2004	SeqNo 564618

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	98 23	20	125	27 03	57	63	116	0	0		S
Nickel	26750	20	125	33720	-5570	57	116	0	0		S
Selenium	91 8	20	125	0	73 4	47	118	0	0		
Silver	114.9	20	125	33 32	65 3	48	125	0	0		
Thallium	51 45	20	125	0	41 2	49	116	0	0		S
Vanadium	101 5	20	125	0	81 2	65	122	0	0		
Zinc	117 9	20	125	55 69	49.8	36	140	0	0		

Sample ID 068943-011AMS	SampType MS	TestCode 6010_S	Units mg/Kg	Prep Date: 5/13/2004	Run ID ICP5_040515A
Client ID ZZZZZ	Batch ID 18227	TestNo EPA 6010B	(EPA 3050A)	Analysis Date 5/15/2004	SeqNo 564843

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	50	125	0	0	23	118	0	0		S
Arsenic	92 37	50	125	0	73 9	64	111	0	0		
Barium	118 5	50	125	0	94 8	36	146	0	0		
Beryllium	109	50	125	0	87.2	50	120	0	0		
Cadmium	182 2	50	125	77.84	83 5	62	107	0	0		
Chromium	119 9	50	125	0	95 9	63	119	0	0		
Cobalt	123 7	50	125	0	98 9	63	111	0	0		
Copper	255 7	50	125	229 8	20 7	58	136	0	0		S
Lead	254	50	125	159 4	75 7	47	125	0	0		
Molybdenum	105 8	50	125	0	84 6	63	116	0	0		
Nickel	31370	50	125	32870	-1190	57	116	0	0		S
Selenium	107 9	50	125	0	86 3	47	118	0	0		
Silver	130 9	50	125	27 75	82.5	48	125	0	0		
Thallium	50 15	50	125	0	40 1	49	116	0	0		S
Vanadium	113 4	50	125	0	90 7	65	122	0	0		
Zinc	139 9	50	125	62 95	61 5	36	140	0	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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID 068943-011AMSD | SampType MSD | TestCode 6010_S | Units mg/Kg | Prep Date 5/13/2004 | Run ID ICP5_040514E
Client ID ZZZZZ | Batch ID 18227 | TestNo EPA 6010B (EPA 3050A) | Analysis Date 5/14/2004 | SeqNo 564619

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	20	125	0	0	23	118	0	0	20	S
Arsenic	91 65	20	125	0	73.3	64	111	89 88	1.95	20	
Barium	107.2	20	125	0	85 8	36	146	107 1	0 0729	20	
Beryllium	103	20	125	0	82 4	50	120	101 7	1 25	20	
Cadmium	154 7	20	125	74 85	63 9	62	107	156 4	1 08	20	
Chromium	105 2	20	125	11 75	74 7	63	119	103 2	1 88	20	
Cobalt	112 9	20	125	15 1	78 3	63	111	111 4	1.37	20	
Copper	248 5	20	125	229 2	15 5	58	136	226 1	9 45	20	S
Lead	214 6	20	125	156	46 9	47	125	219.3	2 18	20	S
Molybdenum	97 65	20	125	27 03	56.5	63	116	98 23	0.597	20	S
Nickel	26000	20	125	33720	-6180	57	116	26750	2.86	20	S
Selenium	96 47	20	125	0	77.2	47	118	91 8	4 96	20	
Silver	113 3	20	125	33 32	64	48	125	114.9	1 44	20	
Thallium	47 17	20	125	0	37 7	49	116	51 45	8 68	20	S
Vanadium	101 4	20	125	0	81 1	65	122	101.5	0 0699	20	
Zinc	132	20	125	55 69	61	36	140	117.9	11 3	20	

Sample ID 068943-011AMSD | SampType MSD | TestCode 6010_S | Units mg/Kg | Prep Date 5/13/2004 | Run ID ICP5_040515A
Client ID: ZZZZZ | Batch ID 18227 | TestNo EPA 6010B (EPA 3050A) | Analysis Date 5/15/2004 | SeqNo 564844

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	50	125	0	0	23	118	0	0	20	S
Arsenic	96.81	50	125	0	77 4	64	111	92.37	4 70	20	
Barium	128 8	50	125	0	103	36	146	118 5	8 34	20	
Beryllium	118 3	50	125	0	94 7	50	120	109	8 22	20	
Cadmium	196 9	50	125	77 84	95 3	62	107	182.2	7 75	20	
Chromium	131 3	50	125	0	105	63	119	119 9	9 05	20	
Cobalt	135.2	50	125	0	108	63	111	123 7	8 92	20	
Copper	308	50	125	229 8	62 5	58	136	255 7	18.5	20	
Lead	275 5	50	125	159.4	92 9	47	125	254	8 15	20	

Qualifiers.
ND - Not Detected at the Reporting Limit
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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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID 068943-011AMSD SampType MSD TestCode 6010_S Units mg/Kg Prep Date 5/13/2004 Run ID ICP5_040515A
Client ID ZZZZZ Batch ID. 18227 TestNo EPA 6010B (EPA 3050A) Analysis Date 5/15/2004 SeqNo 564844

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	112 8	50	125	0	90 3	63	116	105 8	6 41	20	
Nickel	32700	50	125	32870	-130	57	116	31370	4 15	20	S
Selenium	118.2	50	125	0	94 6	47	118	107.9	9 13	20	
Silver	143 8	50	125	27 75	92.8	48	125	130 9	9 41	20	
Thallium	ND	50	125	0	39	49	116	50 15	0	20	S
Vanadium	122	50	125	0	97.6	65	122	113 4	7.30	20	
Zinc	169 5	50	125	62 95	85.2	36	140	139 9	19 1	20	

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**

CLIENT: Hart Crowser, Inc
Work Order: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID	MB-18229	SampType	MBLK	TestCode	7471_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	AA1_040514A
Client ID	ZZZZZ	Batch ID.	18229	TestNo	EPA 7471A	(EPA 7471)		Analysis Date.	5/14/2004	SeqNo	564495

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0 10									

Sample ID	LCS-18229	SampType	LCS	TestCode	7471_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	AA1_040514A
Client ID	ZZZZZ	Batch ID	18229	TestNo	EPA 7471A	(EPA 7471)		Analysis Date.	5/14/2004	SeqNo	564494

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	2 063	0 10	2 08	0	99.2	80	120	0	0		

Sample ID	068933-004AMS	SampType	MS	TestCode:	7471_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	AA1_040514A
Client ID:	SP-CL-02	Batch ID.	18229	TestNo.	EPA 7471A	(EPA 7471)		Analysis Date	5/14/2004	SeqNo	564492

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1 115	0 10	0 83	0 08161	124	62	146	0	0		

Sample ID	068933-004AMSD	SampType	MSD	TestCode	7471_S	Units	mg/Kg	Prep Date	5/13/2004	Run ID	AA1_040514A
Client ID.	SP-CL-02	Batch ID	18229	TestNo	EPA 7471A	(EPA 7471)		Analysis Date.	5/14/2004	SeqNo	564493

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	1 012	0 10	0 83	0 08161	112	62	146	1 115	9 65	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-18234	SampType	MBLK	TestCode	8270_S_FUL	Units	µg/Kg	Prep Date	5/14/2004	Run ID	MS6_040514A
Client ID	ZZZZZ	Batch ID	18234	TestNo	EPA 8270C	(EPA 3550B)		Analysis Date	5/14/2004	SeqNo	565115

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	330									
1,2-Dichlorobenzene	ND	330									
1,3-Dichlorobenzene	ND	330									
1,4-Dichlorobenzene	ND	330									
2,4,5-Trichlorophenol	ND	330									
2,4,6-Trichlorophenol	ND	330									
2,4-Dichlorophenol	ND	1600									
2,4-Dimethylphenol	ND	330									
2,4-Dinitrophenol	ND	1600									
2,4-Dinitrotoluene	ND	330									
2,6-Dinitrotoluene	ND	330									
2-Chloronaphthalene	ND	330									
2-Chlorophenol	ND	330									
2-Methylnaphthalene	ND	330									
2-Methylphenol	ND	330									
2-Nitroaniline	ND	1600									
2-Nitrophenol	ND	330									
3,3'-Dichlorobenzidine	ND	660									
3-Nitroaniline	ND	1600									
4,6-Dinitro-2-methylphenol	ND	1600									
4-Bromophenyl-phenylether	ND	330									
4-Chloro-3-methylphenol	ND	660									
4-Chloroaniline	ND	660									
4-Chlorophenyl-phenylether	ND	330									
4-Methylphenol	ND	330									
4-Nitroaniline	ND	1600									
4-Nitrophenol	ND	1600									
Acenaphthene	ND	330									
Acenaphthylene	ND	330									
Anthracene	ND	330									

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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-18234	SampType	MBLK	TestCode	8270_S_FUL	Units	µg/Kg	Prep Date	5/14/2004	Run ID	MS6_040514A
Client ID	ZZZZZ	Batch ID	18234	TestNo	EPA 8270C	(EPA 3550B)		Analysis Date	5/14/2004	SeqNo	565115

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzidine (M)	ND	1600									
Benzo(a)anthracene	ND	330									
Benzo(a)pyrene	ND	330									
Benzo(b)fluoranthene	ND	330									
Benzo(g,h,i)perylene	ND	330									
Benzo(k)fluoranthene	ND	330									
Benzoic acid	ND	1600									
Benzyl alcohol	ND	660									
Bis(2-chloroethoxy)methane	ND	330									
Bis(2-chloroethyl)ether	ND	330									
Bis(2-chloroisopropyl)ether	ND	330									
Bis(2-ethylhexyl)phthalate	ND	330									
Butylbenzylphthalate	ND	330									
Chrysene	ND	330									
Di-n-butylphthalate	ND	330									
Di-n-octylphthalate	ND	330									
Dibenz(a,h)anthracene	ND	330									
Dibenzofuran	ND	330									
Diethylphthalate	ND	330									
Dimethylphthalate	ND	330									
Fluoranthene	ND	330									
Fluorene	ND	330									
Hexachlorobenzene	ND	330									
Hexachlorobutadiene	ND	660									
Hexachlorocyclopentadiene	ND	660									
Hexachloroethane	ND	330									
Indeno(1,2,3-cd)pyrene	ND	330									
Isophorone	ND	330									
N-Nitrosodi-n-propylamine	ND	330									
N-Nitrosodiphenylamine	ND	330									

Qualifiers.
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Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

CLIENT: Hart Crowser, Inc
Work Order: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID	MB-18234	SampType	MBLK	TestCode	8270_S_FUL	Units	µg/Kg	Prep Date.	5/14/2004	Run ID	MS6_040514A
Client ID	ZZZZZ	Batch ID	18234	TestNo	EPA 8270C	(EPA 3550B)		Analysis Date.	5/14/2004	SeqNo	565115

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	330									
Nitrobenzene	ND	330									
Pentachlorophenol	ND	1600									
Phenanthrene	ND	330									
Phenol	ND	330									
Pyrene	ND	330									

Sample ID	LCS-18234	SampType	LCS	TestCode	8270_S_FUL	Units	µg/Kg	Prep Date.	5/14/2004	Run ID	MS6_040514A
Client ID	ZZZZZ	Batch ID	18234	TestNo	EPA 8270C	(EPA 3550B)		Analysis Date	5/14/2004	SeqNo	565116

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2413	330	3330	0	72.5	61	98	0	0		
1,4-Dichlorobenzene	2232	330	3330	0	67	56	91	0	0		
2,4-Dinitrotoluene	3031	330	3330	0	91	72	116	0	0		
2-Chlorophenol	2704	330	3330	0	81.2	64	101	0	0		
4-Chloro-3-methylphenol	2978	660	3330	0	89 4	74	114	0	0		
4-Nitrophenol	3246	1600	3330	0	97.5	74	124	0	0		
Acenaphthene	2556	330	3330	0	76 8	64	95	0	0		
N-Nitrosodi-n-propylamine	2557	330	3330	0	76 8	63	104	0	0		
Pentachlorophenol	3260	1600	3330	0	97.9	66	128	0	0		
Phenol	2955	330	3330	0	88.7	67	108	0	0		
Pyrene	2626	330	3330	0	78.8	63	100	0	0		

Sample ID	068933-001AMS	SampType	MS	TestCode	8270_S_FUL	Units	µg/Kg	Prep Date	5/14/2004	Run ID	MS6_040514A
Client ID	SP-BLDG-01	Batch ID	18234	TestNo	EPA 8270C	(EPA 3550B)		Analysis Date	5/14/2004	SeqNo.	565117

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2395	330	3330	0	71.9	61	98	0	0		
1,4-Dichlorobenzene	2189	330	3330	0	65.7	56	91	0	0		
2,4-Dinitrotoluene	3015	330	3330	0	90 6	72	116	0	0		

Qualifiers:
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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: 068933
Project: PACCAR-BLDG & CLARIFIER AREA EXCA

ANALYTICAL QC SUMMARY REPORT

TestCode: 8270_S_FULL

Sample ID 068933-001AMS	SampType MS	TestCode 8270_S_FUL	Units µg/Kg	Prep Date 5/14/2004	Run ID MS6_040514A
Client ID SP-BLDG-01	Batch ID 18234	TestNo EPA 8270C	(EPA 3550B)	Analysis Date 5/14/2004	SeqNo 565117

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorophenol	2719	330	3330	0	81.7	64	101	0	0		
4-Chloro-3-methylphenol	3034	660	3330	0	91.1	74	114	0	0		
4-Nitrophenol	3312	1600	3330	0	99.5	74	124	0	0		
Acenaphthene	2553	330	3330	0	76.7	64	95	0	0		
N-Nitrosodi-n-propylamine	2599	330	3330	0	78.1	63	104	0	0		
Pentachlorophenol	3270	1600	3330	0	98.2	66	128	0	0		
Phenol	2983	330	3330	0	89.6	67	108	0	0		
Pyrene	2604	330	3330	0	78.2	63	100	0	0		

Sample ID 068933-001AMSD	SampType MSD	TestCode 8270_S_FUL	Units µg/Kg	Prep Date 5/14/2004	Run ID MS6_040514A
Client ID SP-BLDG-01	Batch ID 18234	TestNo EPA 8270C	(EPA 3550B)	Analysis Date 5/14/2004	SeqNo 565118

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	2513	330	3330	0	75.5	61	98	2395	4.80	30	
1,4-Dichlorobenzene	2267	330	3330	0	68.1	56	91	2189	3.47	30	
2,4-Dinitrotoluene	3010	330	3330	0	90.4	72	116	3015	0.188	30	
2-Chlorophenol	2805	330	3330	0	84.2	64	101	2719	3.13	30	
4-Chloro-3-methylphenol	3093	660	3330	0	92.9	74	114	3034	1.91	30	
4-Nitrophenol	3302	1600	3330	0	99.1	74	124	3312	0.312	30	
Acenaphthene	2656	330	3330	0	79.8	64	95	2553	3.98	30	
N-Nitrosodi-n-propylamine	2619	330	3330	0	78.6	63	104	2599	0.741	30	
Pentachlorophenol	3463	1600	3330	0	104	66	128	3270	5.71	30	
Phenol	3022	330	3330	0	90.8	67	108	2983	1.31	30	
Pyrene	2612	330	3330	0	78.4	63	100	2604	0.294	30	

Qualifiers:
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J - Analyte detected below quantitation limits
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Calculations are based on raw values
DO - Surrogate dilute out
H - Sample exceeded holding time

Waste Disposal Agreement

Agreement made this 6th day of April, 2004 by and between PACCAR Inc, a Delaware Corporation with its principal offices at Bellevue, Washington ("PACCAR") and American Remedial Technologies, a California company, with its principal offices at 2680 ~~Seminole Avenue~~ Imperial Hwy, Lynwood, California. (hereinafter referred to as "Contractor").

WHEREAS, PACCAR has certain waste materials, and wishes them to be treated and the residues disposed;

WHEREAS, CONTRACTOR is duly licensed and qualified to handle, treat, and/or dispose of PACCAR's waste materials in accordance with law and prevailing professional standards

NOW, THEREFORE, the parties agree as follows:

1. WASTE MATERIALS. The waste materials covered by this Agreement are those set forth in Exhibit A. The parties may add new waste materials or delete existing waste materials from time to time through an amendment of Exhibit A signed by both parties.

2. CONTRACTOR SERVICES. Contractor agrees to accept and dispose of PACCAR's waste materials, of the designated nature and quantity, and at the designated frequency, as PACCAR may from time to time request in advance through issuance of a written order. Contractor agrees to accept and dispose of waste materials at _____ who is duly licensed and qualified to handle, treat and dispose of PACCAR Wastes in accordance with law and prevailing professional standards. Provided that PACCAR may, in its discretion, direct Contractor to dispose of waste materials at one or more alternate sites.

3. TRANSFER OF WASTES AND TITLE. At the time Contractor takes possession of the waste materials, title, risk of loss, and all other incidents, rights and obligations of ownership to the waste materials shall be transferred from PACCAR and vested in Contractor.

4. FEES AND BILLING. PACCAR will pay Contractor for the performance of this contract, the prices referenced in Exhibit B. The parties may change the prices from time to time through an amendment of Exhibit B signed by both parties. Further and as a condition precedent to payment by PACCAR to Contractor under this Agreement, each invoice submitted by Contractor to PACCAR shall be accompanied by written documentation, in such form as PACCAR may reasonably request, evidencing that all materials received from PACCAR were delivered to and accepted by a governmentally approved, licensed and permitted disposal facility.

5. TERM AND TERMINATION. This Agreement shall commence on the date it is executed by PACCAR and Contractor, and shall continue in full force and effect thereafter unless and until terminated in accordance with the provisions of this Agreement. PACCAR may terminate this Agreement or any Schedule hereunder for its convenience and without cause by giving to Contractor five (5) days prior written notice of its election to terminate said Agreement

or Schedule. In such case, PACCAR agrees to pay Contractor for all costs actually and reasonably incurred by Contractor up to the effective date of termination, at the agreed upon rates, and expenses as set forth herein and/or in the applicable Schedule.

6. CONTRACTOR WARRANTIES. Contractor warrants that: (1) it is fully qualified and licensed to perform the work herein, and understands the hazards which are presented to persons, property, and the environment in the disposal of the described waste materials; (2) it will dispose of such materials in full compliance with all governmental laws, regulations, and orders; (3) each disposal facility is licensed and permitted to accept and dispose of the described waste materials; and, (4) in the event the disposal facility loses its permitted status hereafter during the term of this Agreement, Contractor will promptly notify PACCAR of such loss of permitted status.

7. INSURANCE. Contractor shall purchase and maintain with insurers acceptable to PACCAR the following minimum insurance coverages and limits:

7.1.1	Commercial General Liability including Broad Form Contractual Liability (oral & written) Products/Completed Operations, Independent Contractors, Premises/Operations, Broad Form Property Damage	$1,000,000 Each Occurrence $1,000,000 Personal & Advertising Injury $2,000,000 General Aggregate $2,000,000 Products-Comp/Op. Aggregate
7.1.2	Automobile Liability covering owned, non-owned and hired vehicles	Pursuant to D.O.T requirements but not less than $1,000,000 each occurrence. Each policy will include an MCS90 and CA9948 endorsement adding broadened pollution coverage.(a)
7.1.3	Workers' Compensation	Statutory limits or evidence of qualified self-insurer status in the state(s) in which the services are to be performed (d)
7.1.4	Contractors Pollution Liability covering sudden and non-sudden accidental occurrences both on and off site	$1,000,000 Each Occurrence/claim (a,b) $2,000,000 Annual Aggregate

Coverages under 7.1.1 and 7.1.4 shall be maintained for two years after termination of this Agreement. A certificate of insurance naming PACCAR and/or applicable PACCAR affiliates as an additional insured under coverages 7.1.1, 7.1.2 and 7.1.4 shall be made available to PACCAR prior to commencement of any Services. Each certificate shall disclose each applicable deductible and/or self-insured retention and shall contain a statement of the insurer's obligation to notify PACCAR and/or applicable affiliate at least thirty (30) days prior to

cancellation, expiration or material change in any policy covered thereunder. Any policy that provides the insurance required shall be endorsed to be primary to, and noncontributory with any insurance maintained by PACCAR. Any deductible amount or self-insured retention is the sole responsibility of Contractor (c).

Notes:

(a) Pollution liability under the automobile liability and specific pollution liability policies will not be required under consulting contracts required for design, permitting, or soil, groundwater and asbestos sampling only.

(b) For contracts in excess of $500,000, pollution liability limits under 8.1.4 should be increased to $5 million each occurrence/$10 million annual aggregate.

(c) For contracts in excess of $50,000, the following wording should be added to the end of the last paragraph:

> "Further, the Contractor warrants the insurance policy will contain a severability of interest endorsement ("cross liability") on the coverages evidenced under items 7.1.1 above."

(d) To obtain evidence of workers' compensation coverage in the states of Washington, West Virginia, North Dakota, Wyoming, Ohio or Nevada, confirmation must be received from the State in the form of a letter stating the company has workers' compensation coverage in the State Fund or is a qualified self-insurer as the case may be.

8. INSPECTIONS. PACCAR shall have the right to inspect and obtain copies of all written licenses, permits, approvals, or inspection reports issued by any governmental entity or agency to Contractor or its Subcontractors which are applicable to the performance of this Agreement; to inspect and test, at its own expense, containers or disposal facilities provided by Contractor; and, to inspect the disposal operations conducted by Contractor in the performance of this Agreement

9. NOTICE. Notices and other official communication to PACCAR under this Agreement shall be in writing and shall be sufficiently given if delivered personally or by express courier, or mailed by first class mail, proper postage prepaid as follows:

Invoices:

PACCAR Inc	Hart Crowser, Inc.
Attn: Mr. F.S. Benz, PE	Attn: Dr. Alistaire Callender
777 106th Avenue NE	301 East Ocean Boulevard
P O Box 1518	Suite 1950
Bellevue, WA 98009	Long Beach, CA 90802-4878
(425)468-7901	(562)733-1740

Original Invoices are to be sent to attention of Hart Crowser for project work under this waste disposal agreement related to PACCAR Inc's property at 19706 S. Normandie Ave, Torrance, CA. A copy of the Original Invoice is to be sent to PACCAR Inc to ensure payment of Invoice by Hart Crowser as part of their site contract.

Contract Information:

PACCAR Inc
Attn: F.S. Benz, PE
P O Box 1518
Bellevue, WA 98009

or to such other addresses or addressees as PACCAR may from time to time designate to Contractor by written notice as provided herein.

All notices and other official communication to Contractor under this Agreement shall be in writing and shall be sufficiently given if delivered personally or by express courier, or mailed by first class mail, proper postage prepaid to:

_____
_____
_____
_____

or to such other addresses or addressees as Contractor may from time to time designate to PACCAR by written notice as provided herein. Any such notice or other official communication shall be deemed to be given as of the date it is personally delivered or five (5) days after being placed in the mails in the manner specified.

10. COMPLIANCE. Contractor shall comply with all applicable laws and regulations, and obtain any permits, licenses, and approval required for performance of this Agreement.

11. RECORD KEEPING. Contractor shall keep such full and detailed records as are necessary to demonstrate that in the performance of its obligations under this Agreement, Contractor has complied with all of the requirements of this Agreement as well as the requirements of any applicable governmental authority. Such records shall be kept for a period of at least three years after the date of each disposal or for any longer period stipulated by statute or regulations, and during said period, PACCAR, its employees, agents, or other authorized representatives shall have access to said records at all reasonable times for the purpose of auditing contractor's performance.

12. INDEMNIFICATION. Contractor shall protect, defend, indemnify and save harmless PACCAR, its employees, and agents from any and all claims, suits, actions, penalties, fines, costs, including attorneys fees, and liability, including liability for loss of life or personal injury (including but not limited to employees of Contractor, its agents, and subcontractors, and of PACCAR), and property damage, (including but not limited to property of Contractor, its agents and subcontractors, and of PACCAR), and contamination of or adverse effects on the environment resulting from any breach of this Agreement, violation of law or regulation, or negligent or intentionally wrongful act of Contractor, its employees, agents or subcontractors, or in connection with the work performed, services rendered, or products or materials furnished, under this Agreement.

Deleted: arising out of, or in connection with, or

Deleted: the activities

13. CONFIDENTIALITY OF INFORMATION. Contractor acknowledges and agrees that (i) all material and information which has or will come into its possession or knowledge in connection with this Agreement or the performance of Services, is confidential and proprietary information of PACCAR, of its affiliates, or of third party vendors who have licensed the information to PACCAR under an obligation of confidentiality, and (ii) the disclosure to third parties or use by Contractor or third parties of such information will damage PACCAR. Contractor therefore agrees unless otherwise required by laws and regulations to hold such material and such information in the strictest confidence, not to make use thereof other than for the performance of this Agreement and Services hereunder, and not to release such information or material to any person except for Contractor's personnel who have a need to know such information for the purposes of this Agreement and performing Services hereunder and who have signed a written agreement expressly agreeing not to use or disclose it. This confidentiality obligation shall survive termination of this Agreement.

14. SAFETY AND SECURITY. The safety of the persons employed by Contractor and its subcontractors shall be the sole responsibility of Contractor. Contractor shall comply with all applicable provisions of Federal, State and local law relating to employee health and safety Contractor acknowledges that it, and its employees, agents and subcontractors are skilled professionals experienced in environmental matters, including sampling, investigation and remediation of contamination to air, soil and groundwater resulting from hazardous materials, and in performing environmental services on property of others under varying conditions, and understand the risk inherent in such work of exposure to hazardous substances, waste and materials. Contractor's personnel will be instructed in, and shall comply with PACCAR's security regulations applicable to each location. Contractor's personnel, when deemed appropriate by PACCAR, will be issued visitor identification cards and each such card will be surrendered by Contractor's personnel at conclusion of site visit or upon demand by PACCAR or upon termination of this Agreement and/or the applicable Schedule pursuant to which Services are being performed.

15. ASSIGNMENT. This Agreement shall be binding upon and inure to the benefit of the parties and their respective successors and permitted assigns. Neither party may assign this Agreement or any of its rights or obligations hereunder without the prior written consent of the other party, except that PACCAR may assign this Agreement to any entity which controls, is controlled by, or is under common control with PACCAR.

16. GOVERNING LAW. The validity of this Agreement, the construction and enforcement of its terms, and the interpretation of the rights and duties of the parties shall be governed by the laws of the State of Washington.

17. SEVERABILITY. In the event any one or more of the provisions of this Agreement shall for any reason be held to be invalid, illegal, or unenforceable, the remaining provisions of this Agreement shall be unimpaired.

18. ADVERTISING AND PUBLICITY. Contractor shall not use the name of PACCAR or of any of its affiliates in publicity releases or advertising without PACCAR's prior written approval. PACCAR shall not use the name of Contractor in publicity releases or advertising without Contractor's prior written approval.

19. SCHEDULES AND ATTACHMENTS. The terms and conditions of any and all Schedules (including any exhibits or attachments thereto) are incorporated herein by this reference and constitute part of this Agreement as if fully set forth herein. To the extent possible, the terms and conditions of the Schedules and this Agreement shall be construed as being mutually consistent. In the event of any conflict between the terms and conditions of this Agreement and the terms and conditions of any Schedule, the terms and conditions of the Schedule shall govern.

20. MODIFICATION, AMENDMENT WAIVER. No modification, amendment, supplement to or waiver of this Agreement or any of its provisions shall be binding upon the parties hereto unless made in writing and duly signed by both parties. A failure or delay of either party to this Agreement to enforce or to require performance of any of the provisions hereof shall not be construed to be a waiver of such provision, or prevent future enforcement of such provision in the same or in a different situation.

21. COMPLETE AGREEMENT. This Agreement together with all Schedules executed hereunder constitutes the entire Agreement between the parties and supersedes all prior agreements, promises, requisitions, proposals, representations, understandings and negotiations, whether written or oral, between the parties respecting the subject matter hereof.

22. SURVIVAL. The obligations of sections 8, 10, 11, 12, and 13 shall survive termination of this Agreement.

IN WITNESS WHEREOF, the parties hereto, each acting under due and proper authority, have executed this Agreement on the dates indicated below.

American Remedial Technologies
(Contractor)

By: Fred L. Mitle

PACCAR Inc

By: _____

Title: General Manager

Date: 4-6-04

Title: _____

Date: _____

Exhibit A

Waste Materials Covered by This Agreement

Common Name	Chemical Composition & Physical Characteristics
Contaminated Soil	Non-Hazardous soil generated from exploratory borings and excavations. Low levels to non-detect of TPH, metals, and other trace contaminants General Soil Description/Classification (ASTM) ML-Inorganic Silts and sands, SM-Silty Sands, Sand-silt mixture SP-Poorly graded Sands, Gravelly Sands, little or no fines

American Remedial Technologies
(Contractor)

By: [signature]

Title: General Manager

Date: 4/6/04

PACCAR Inc

By: _____

Title: _____

Date: _____

Certificate of Soil Recycling

Presented to

Cameron Environmental

American Remedial Technologies, Inc. (ART) certifies that **25.74** tons of non-hazardous petroleum contaminated soil were recevied for recycling by Low Temperature Thermal Desorption. The soil was received from **19706 S. Normandie Ave. Torrance, CA** ART approval number **2706.**

Presented by

AMERICAN REMEDIAL TECHNOLOGIES, INC.
2680 Seminole Avenue
Lynwood, California

the 1st of April, 2003

Frederick Miller
Environmental Manager

AMERICAN REMEDIAL TECHNOLOGIES

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

Ticket No.: 057491

Date: 3/26/03
Time in: 14:57
Time out: 16:01
Scale: Sc1#1

Carrier: 0007 ART'S DISPOSAL SERVI

Customer: 0251 Cameron Environmental

Truck: ART10 Trailer: 10T

Product: 01 SOIL-LTTD TREAT Job: C60327006 Manifest: 00001

WGT IN: Gross: 95,240 LBS Sc1#1

Tare: 43,760 LBS Sc1#1

Net: 51,480 LBS = 25.74 Tons

Driver signature

Weighmaster signature

To my knowledge nothing has been added nor has soil been tampered with since loading into truck for delivery to Facility.

2680 SEMINOLE AVENUE, LYNWOOD, CA 90262 TEL. (323) 357-1900 (800) 401-4988 FAX (323) 357-1909

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR NO. 00001

Name: PACCAR Inc. Site: Trico Industries

Mailing Address: 777 106th Ave. N.E. Address: 19706 S. Normandie Avenue

City, State, Zip: Bellevue, WA 98004 City: Torrance

Phone: 425-468-7901

Containers: no. 2 Volume: 27 ~~15~~/cy Weight: 15 cy / 12 cy

TYPE: Tank Truck ☐ Dump Truck ☐ Drums ☐ Roll Off ☒

Waste Description Contaminated Soil Generating Process Spill / Leak

Components of Waste	PPM	%	Components of Waste	PPM	%
1 Soil		99-100	5		
2 TPH		<100	6		
3 VOC's		<5	7		
4			8		

Properties: ph N Solid ☒ Liquid ☐ Sludge ☐

Handling Instructions: Wear appropriate protective clothing RO-672

The generator certifies that the waste as described is 100% non-hazardous.

Printed Name Christian Knoche

Signature [signature] as authorized agent for PACCAR, Inc. Date 3/28/03

Transporter

Name. Art's Disposal Services Name. #Art #1D

Address: 127 Van Norman Road Address: 9D024155 Lic.

City, State, Zip: Montebello, CA 90640 City, State, Zip:

Phone: 800-600-3918 Phone:

Printed Name [signature] Printed Name

Signature Cosam Zamon Date 3-28-03 Signature Date

TSD FACILITY

Name: American Remedial Technologies Profile No. 20032706

Address: 2680 Seminole Avenue Landfill ☐ Other ☐

City, State, Zip: Lynwood, CA Phone: 800-401-4988

Tons/Gals Rec'd [signature] Date 3/28/03

NON-HAZARDOUS WASTE DATA FORM

BE COMPLETED BY GENERATOR NO.

Name: PACCAR Inc. Site: Trico Industries

Mailing Address: 777 106th Ave. N.E. Address: 19706 S. Normandie Avenue

City, State, Zip: Bellevue, WA 98004 City: Torrance

Phone: 425-468-7901

Containers: no. 1 Volume: 15 CY Weight:

TYPE: Tank Truck ☐ Dump Truck ☐ Drums ☐ Roll Off ☒

Waste Description Contaminated Soil Generating Process Spill / Leak

Components of Waste	PPM	%	Components of Waste	PPM	%
1 Soil		99-100	5		
2 TPH		<100	6		
3 VOC's		<5	7		
4			8		

Properties: ph N Solid ☒ Liquid ☐ Sludge ☐

Handling Instructions: Wear appropriate protective clothing RO-672

The generator certifies that the waste as described is 100% non-hazardous.

Printed Name Christian Knoche

Signature [signature] as authorized agent for PACCAR, Inc. Date 3/28/03

Transporter

Name: Art's Disposal Services Name:

Address: 127 Van Norman Road Address:

City, State, Zip: Montebello, CA 90640 City, State, Zip:

Phone: 800-600-3918 Phone:

Printed Name [signature] Printed Name

Signature [signature] Date 3-28-03 Signature Date

TSD FACILITY

Name: American Remedial Technologies Profile No. 20032706

Address: 2680 Seminole Avenue Landfill ☐ Other ☐

City, State, Zip: Lynwood, CA Phone: 800-401-4988

Tons/Gals Rec'd

Signature Date

NON-HAZARDOUS WASTE DATA FORM

BE COMPLETED BY GENERATOR NO.

Name: PACCAR Inc. Site: Trico Industries

Mailing Address: 777 106th Ave. N.E. Address: 19706 S. Normandie Avenue

City, State, Zip: Bellevue, WA 98004 City: Torrance

Phone: 425-468-7901

Containers: no. 1 Volume: 12CY Weight:

TYPE: Tank Truck ☐ Dump Truck ☐ Drums ☐ Roll Off ☒

Waste Description: Contaminated Soil Generating Process: Spill / Leak

Components of Waste	PPM	%	Components of Waste	PPM	%
1 Soil		99-100	5		
2 TPH		<100	6		
3 VOC's		<5	7		
4			8		

Properties: ph N Solid ☒ Liquid ☐ Sludge ☐

Handling Instructions: Wear appropriate protective clothing RO-672

The generator certifies that the waste as described is 100% non-hazardous.

Printed Name Christian Knoche

Signature [signature] as authorized agent for PACCAR, Inc. Date 03/28/03

Transporter

Name: Art's Disposal Services Name:

Address: 127 Van Norman Road Address:

City, State, Zip: Montebello, CA 90640 City, State, Zip:

Phone: 800-600-3918 Phone:

Printed Name CESAR ZAMORA Printed Name

Signature [signature] Date 03-28-03 Signature Date

TSD FACILITY

Name: American Remedial Technologies Profile No. 20032706

Address: 2680 Seminole Avenue Landfill ☐ Other ☐

City, State, Zip: Lynwood, CA Phone: 800-401-4988

Tons/Gals Rec'd

Signature Date

PACCAR Inc

December 30, 1997

Mr. Jim Ross, Chief
Cleanup Unit
Los Angeles Regional Water Quality Control Board
101 Centre Plaza Drive
Monterey Park, CA 91754-2156

Dear Mr. Ross,

RE: Annual Estimation for SLIC Recovery Program - Former Trico Industries Sites

Recently, PACCAR received several letters on the above subject from Mr. Dennis A. Dickerson. Two of the letters contain errors which need to be corrected.

One of the letters referrenced a piece of property located at 1206 West 190th Street in Torrance (FILE NO. 96-062, PCA #20491). The street address of the Trico property is 1206 West 196th. The ownership of this property has been retained by PACCAR after selling a large parcel to Mr. Peter Tsai.

The other letter referrenced a piece of property located at 19706 Normandie Avenue in Torrance (FILE NO. 100.315, PCA #20491). This portion of the property was sold to Mr. Peter Tsai of Mighty Enterprises several years ago. Neither PACCAR nor Trico retains any interest in this portion of the property.

I should also point out that PACCAR has recently sold Trico Industries. PACCAR did, however, retain the environmental responsibily for some of the Trico properties in Southern California. Mr. Robert K. Butler of PACCAR remains the primary contact for these properties.

If you have any questions on either of these sites, please call me at (425)468-7901.

Sincerely,

Larry L. Sims
Senior Environmental Engineer
Corporate Environmental Department

cc: R.E. Bangert II
R.K. Butler

P O Box 1518 Bellevue, Washington 98009 Telephone (425) 468-7400
PACCAR Building 777-106th Avenue N E Bellevue, Washington 98004

Cal/EPA

Los Angeles Regional Water Quality Control Board

101 Centre Plaza Drive
Monterey Park, CA
91754-2156
(213) 266-7500
FAX (213) 266-7600

Lisa
Please send letter to RWQCB advising property has been sold
Bob
12/29/97

Pete Wilson
Governor

December 19, 1997

Robert Butler, P.E.
Trico Industries
P.O. Box 1518
Bellevue, WA 98004

ANNUAL ESTIMATION FOR SLIC COST RECOVERY PROGRAM - FORMER TRICO INDUSTRIES, 19706 NORMANDIE AVENUE, TORRANCE (FILE NO. 100.315, PCA # 20491)

Dear Robert Butler:

The California Water Code (CWC), Section 13304, allows the Regional Board to recover reasonable expenses from the responsible party to oversee cleanup of unregulated releases which have adversely affected waters of the State. It is our intent to continue to recovery such costs for regulatory oversight work conducted in accordance with our initial Executive Officer letter.

In compliance with AB 2507, this letter is being sent to provide you with the following information regarding costs for regulatory oversight work:

1. A detailed estimate of the work to be performed or services to be provided.

2. A statement of the expected outcome of that work.

3. The billing rate for all individuals and classes of employees expected to engage in the work or services.

4. An estimate of all expected charges to be billed to you by this agency.

To that end, Board staff estimates work to be performed during fiscal year 1997/1998 will include regulatory oversight in approved and requested site works, such as approving work plans, site inspections, meetings conference calls and enforcement action.

The expected outcome of work performed at the subject site during the fiscal year include the review and approval of soil investigation work plans and reports.

The attachment describes the billing rates for employees expected to engage in the work or services for your facility. The name and classification of employees making charges will be listed on invoices. The average billing rate is approximately $70 per hour.

Board staff expect to charge 100 hours to your facility during the next fiscal year. Based on the average billing rate of $70. per hour, the estimated billing charge for the subject site is $7,000.