SFUND RECORDS CTR
2149144

# RESPONSE #12

File: Trico Torrance

# TRICO - TORRANCE FACILITY

# CONTINGENCY PLAN

December 1990

Cement mixing
Area

storage area
under compressor

## CONTINGENCY PLAN FOR SPILL CONTROL AND EMERGENCY RESPONSE

### INTRODUCTION

This contingency plan covers emergency procedures in case there is a chemical release due to a process hazard accident, earthquake, storm or fire at the Trico-Torrance facility.

Trico Industries Incorporated is engaged in the design, manufacture, marketing and servicing of products for the petroleum industry. The Torrance facility manufactures well completion equipment.

There are 4 (5-6?) spill scenarios at the Torrance facility. They include:

1. Paint and solvent storage area with 7 - 55 gallon drums, 3 - paint 4 solvent.
2. One propane tank - 255 gallon capacity.
3. Hydraulic oil storage area 3 - 55 gallon drums.
4. Paint dip tank 600 gallon capacity



PACCAR 01390

Under compressor area?

Components of layer frame?

I. Emergency Procedures

A. Potential Chemical release

This section covers the release of paint solvent, hydraulic oil, propane.

The paint dip tank is located in the West end of the building #1. The tank total 600 gallons.

Hydraulic oil is stored at the East end of building #1. 3 drums totaling 165 gallons are stored outside along the East side of building #1.

The 255 gallon capacity propane tank is located outside at the North end of building #3.

The enamel paint and paint thinners are located outside building #1. The enamel paint consists of alcohols, esters, ketones, toluene, xylene, ethyl benzene and petroleum distillates. The paint thinner consists of lacquer thinner, petroleum distillates, butyl acetate, methyl ethyl ketone, acetone, toluene and isobutyl alcohol. The enamel paint and paint thinner is stored in 55 gallon drums.



PACCAR 01392

visual aids
to help determine
wind direction

In case there should be a chemical release due to a tank or container failure which releases liquid contents or gas vapors the following procedures are to be undertaken:

1. Notify the emergency coordinator who will notify all employees. Employees are to immediately shut off machinery at their work stations and congregate in the parking lot.

   In case of a gaseous release with potential health impact, employees are to congregate upwind of the release. Personnel are to be accounted for by each department's supervisor or his/her designee.

2. The emergency coordinator is to assess the amount of release, area affected, exact source, any employee injuries and health and environmental hazards for the following:
   - Hydraulic oil, virgin and spent - environmental hazards
   - Propane - environmental and health hazards
   - Enamel paints and thinners - environmental and health

hazards

3. If the Emergency Coordinator determines that a release has occurred or employees have been injured, then the Coordinator is to notify the Torrance Fire Department at 911.

4. If in the assessment process the Emergency Coordinator finds that the chemical release is flowing or moving off the Trico property, the California State Office of Emergency Services is to be contacted at (213) 620-5607. In contacting the office of Emergency Services the following information is to be reported:
   a. Name and telephone number of Trico's Emergency Coordinator
   b. Trico's Torrance address
   c. Time and type of incident
   d. Material involved
   e. Extent of injuries
   f. Health and environmental hazards

5. Immediately after the emergency, the Emergency

Trico Environmental Manager James Donavant or (phone)

Coordinator shall notify PACCAR's Corporate Environmental office: in Trico Environmental Managers absence

Bob Butler (206) 455-7435

James Leonard (206) 453-5928

Lisa Robbins (206) 453-7199

The Emergency Coordinator will then remain in contact with either Trico or Corporate Environmental throughout the cleanup phase. If necessary, the following agencies are to be notified:

L.A. County Sewer District (213) 685-5217

South Coast Air Quality Management District

(818) 793-5669 or (800) 572-6306

L.A. County Department of Health Services (213) 744-3235

National Emergency Response Center 1-800-424-8802

Regional Water Quality Control Board (phone)

6. The Emergency Coordinator will then coordinate cleanup of the chemical release following OSHA's emergency release regulation 29 CFR 1910.120. In cleanup, the Emergency Coordinator will ensure the absorbent and containment materials used are compatible with the chemicals released. All equipment used in the cleanup is to be fit for its intended use and decontaminated after use. If cleanup is to be performed by an outside firm, the

Emergency Coordinator and Trico or Corporate Environmental staff will jointly select the firm.

7. The Emergency Coordinator will submit a written report to all affected government agencies and ~~to~~ Trico Environmental Staff Corporate PACCAR following the spill and cleanup.

B. **Potential Fire**

This section covers the event of fire involving spent hydraulic oil, propane, hydraulic oil, enamel ~~pains~~ paints and thinner.

Hydraulic oils are located at the East end of Building #1. Pyrolysis of hydraulic oil will create carbon monoxide, carbon dioxide, carbon and water.

The 255 gallon propane tank is located at the N north end of Building #3. Pyrolysis of propane will create carbon dioxide and water. Danger of explosion.

The enamel paint and paint thinners are located in 55 gallon drums outside Building #1. The enamel paint consists of alcohol, ester, ketone, toluene, xylene, ethyl benzene, and petroleum distillates. The paint thinner consists of lacquer thinner, petroleum

visual aids
to help determ
wind direction

distillates, butyl acetate, methyl ethyl ketone, acetone, toluene and isobutyl alcohol. The enamel ~~pain~~ paint and paint thiner is stored in 55 gallon drums. Pyrolysis of enamel paints and thinners will create carbon monoxide, carbon dioxide, other carbon containing compounds and water. radical combustion In case there should be a chemical release due to a <u>fire or explosion</u> at or near a tank or container failure which releases liquid contents or gas vapors the following procedures are to be undertaken:

1. Notify the Emergency Coordinator who will notify all employees. Employees are to immediately shut off machinery at their work stations and congregate in the parking lot. In case of a gaseous release with potential for health impacts, employees are to congregate upwind of the release. Personnel are to be accounted for by each department's supervisor or designee.
2. The Emergency Coordinator is then to asses the amount of release, area affected, exact source, and health and environmental hazards.
   - Hydraulic oil, virgin and spent - environmental hazards

- Propane - environmental and health hazards
- Enamel paints and thinners - environmental and health hazards

3. If the Emergency Coordinator determines that a chemical release or employee injury has occurred, then the Emergency Coordinator is to notify the Torrance Fire Department at 911.

4. If in the assessment process the Emergency Coordinator finds that the chemical release is flowing or moving off the Trico property, the California State Office of Emergency Services is to be contacted at (213) 620-5607. In contacting the office of Emergency Services the following information is to be reported:
   a. Name and telephone number of Trico's Emergency Coordinator
   b. Trico's Torrance Facility address
   c. Time and type of incident
   d. Material involved

e. Extent of injuries

f. Health and environmental hazards

5. Immediately after the emergency, the Emergency Coordinator shall notify Trico's or PACCAR's Corporate Environmental office:

Trico James Donavant Corporate

Bob Butler (206) 455-7435

James Leonard (206) 453-5928

Lisa Robbins (206) 453-7199

The Emergency Coordinator will then remain in contact with Trico or Corporate Environmental throughout the cleanup phase. If necessary, the following agencies are to be notified;

Clear gap

L.A. County Sewer District (213) 685-5217

South Coast Air Quality Management District

(818) 793-5669 or (800) 572-6306

L.A. County Department of Health Services

(213) 744-3235

National Emergency Response Center (800) 424-8802

Regional Water Quality Control Board (Number)

6. The Emergency Coordinator will then begin cleanup of the chemical release following OSHA's emergency release regulation 29 CFR 1910.120.

In cleanup, the Emergency Coordinator will ensure

the cleanup materials are compatible with the chemical released. All equipment used in the cleanup is to be fit for its intended use and is to be decontaminated. If cleanup is to be performed by an outside firm, the Emergency Coordinator at and Trico or Corporate Environmental staff will jointly select the firm.

7. The Emergency Coordinator will submit a written report to all affected government agencies, Trico Environmental Staff and to ~~Trico~~ Corporate PACCAR.

**C. Earthquake**

This section covers the event of an earthquake affecting the storage of hydraulic oil, propane, and enamel paints and thinners.

Hydraulic oil is stored at the East end of building #1.

The 255 gallon propane tank is located at the North end of ~~the~~ building #3.

The enamel paint and paint thinners are located outside

the paint dip tank. The enamel paint consists of alcohols, esters, ketones, toluene, xylene, ethyl benzene and petroleum distillates. The paint thinner consists of lacquer thinner, petroleum distillates, butyl acetate, methyl ethyl ketone acetone, toluene and isobutyl alcohol. The enamel paint and paint thinner is stored in 55 gallon drums.

In case there should be an earthquake which damages some storage containers and releases some or all the liquid contents or gas vapors, the following procedures are to be undertaken:

1. Notify the Emergency Coordinator who will concurrently activate the plant intercommunications system. Employees are to immediately shut off machinery at their work stations and congregate in the parking lot.

2. The Emergency Coordinator is then ~~in~~ so ~~far~~ as is possible, ~~to~~ assess the amount of release, area affected, exact source, employee injuries, and health and environmental hazards. If entering the building is not feasible, assessment is to be performed from outside the building. Assessment is to include employee injury, amount of chemical release, area affected, exact chemical release



PACCAR 01403

source, and health and environmental hazards.

- Hydraulic oil, virgin and spent - environmental hazard

3. In the event of a fire associated with the earthquake, the Emergency Coordinator is to notify the Torrance Fire Department at 911. Once the fire department is on site, the fire department's Incident Commander is to receive the names of the pyrolysis compounds which may be formed. Natural gas and electrical systems are to be shut down.

4. If smoke and smoke fallout is impacting neighbors, then these businesses and residential neighbors are to be notified by the Emergency Coordinator or their designee.

5. If in the assessment process the Emergency Coordinator finds a chemical release, the Emergency Coordinator is to notify the Torrance Fire Department at 911.

6. If the chemical release is flowing or moving off Trico property, the California State Office of

components of
liquid-phase

Emergency Services is to be contacted at (213) 620-5607. In contacting the Office of Emergency Services the following information is to be reported:

a. Name and telephone number of Trico Emergency Coordinator

b. Trico Torrance address

c. Time and type of incident

d. Material involved

e. Extent of injuries

f. Health and environmental hazards

7. Immediately after the earthquake, the Emergency Coordinator shall notify Trico Environmental or PACCAR's Corporate Environmental office and Facilities office:

ENVIRONMENTAL:

| | |
|---|---|
| Bob Butler | (206) 455-7435 |
| James Leonard | (206) 453-5928 |
| Lisa Robbins | (206) 453-7129 |

CORPORATE FACILITIES:

| | |
|---|---|
| Bill Nelson | (206) 453-5928 |

TRICO

James Dunavant

The Emergency Coordinator will then remain in contact with Trico or Corporate Environmental throughout the

cleanup phase. If necessary, the following agencies ~~departments~~ are to be notified:

L.A. County Sewer District (213) 685-5217

South Coast Air Quality Management District

(818) 793-5669 or (800) 572-6306

L.A. County Department of Health Services (213) 7444-3235

National Emergency Response Center (800) 424-8802

Regional Water Quality Control Board (Phone)

8. The Emergency Coordinator will then begin the cleanup phase of the chemical release following OSHA's emergency release regulation 29 CFR 1910.120 once the building can be entered.

In cleanup, the Emergency Coordinator will ensure the materials used are compatible with the chemicals released. All equipment used in the cleanup is to be decontaminated and fit for its intended use. If cleanup is to be performed by an outside firm, the Emergency Coordinator and Corporate Environmental will jointly select the firm. Tricor

9. The Emergency Coordinator along with the Tricor Corporate



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Environmental Department will submit a written report to all appropriate government agencies.

**EMERGENCY COORDINATOR**

The duties of the Emergency Coordinator are to notify all plant personnel of an emergency situation. The Emergency Coordinator is to access the situation in regard to chemical release, fire, explosion, employee injury, health and environmental hazards. The Emergency Coordinator is also to act as the lead plant person in notifying and interacting with appropriate government agencies, contacting Corporate Environmental and responsible for effective cleanup after the incident. The Emergency Coordinator will act as the lead person also during non-incidental spill containment of paint, and waste oil.

The Emergency Coordinator's designation follows this list in descending order.

| | JOB TITLE |
|---|---|
| Leo Cahill | Safety Supervisor & Production Foreman |

Any backup Emergency Coordinators (?)



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## III EMERGENCY RESPONSE TEAM

Trico-Torrance has no emergency response team. During an emergency situation, chemical release, earthquake or fire, the Torrance Fire Department is to be notified at 911.

## IV NOTIFICATION LIST

List of key Trico-Torrance personnel. This is a 24 hour phone list. During off hours, 1700-0700, notification will follow in descending order.

| | HOME PHONE |
|---|---|
| LEO CAHILL | (213) 542-1292 |

Any others?

Below is the list of key governmental agencies:

L.A. County Sewer District (213) 685-5217

South Coast Air Quality Management District (818) 793-5669 or (800) 572-6306

L.A. County Department of Health Services (213) 744-3223

National Emergency Response Center (800) 424-8802

Regional Water Quality Control Board (Region)



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**Equipment List**

A. Plant Intercommunications System

B. Spill Control Equipment

This equipment is to be used only when there is a non-incidental environmental hazard (enamel paint or oil spill).

1. Shovels
2. Sand or absorbent for containing spills during liquid spill control, the release is to be bermed to prevent flow into any water source such as a domestic or storm sewer system.

**OTHER INFORMATION**

Asburb Environmental Services

(213) 321-1392 (waste oil)

J.C. Disposal

(213) 268-3137 (solid waste)

Licensed waster handler - Service Chemical Company

Trico - Torrance EPA Identification Number -

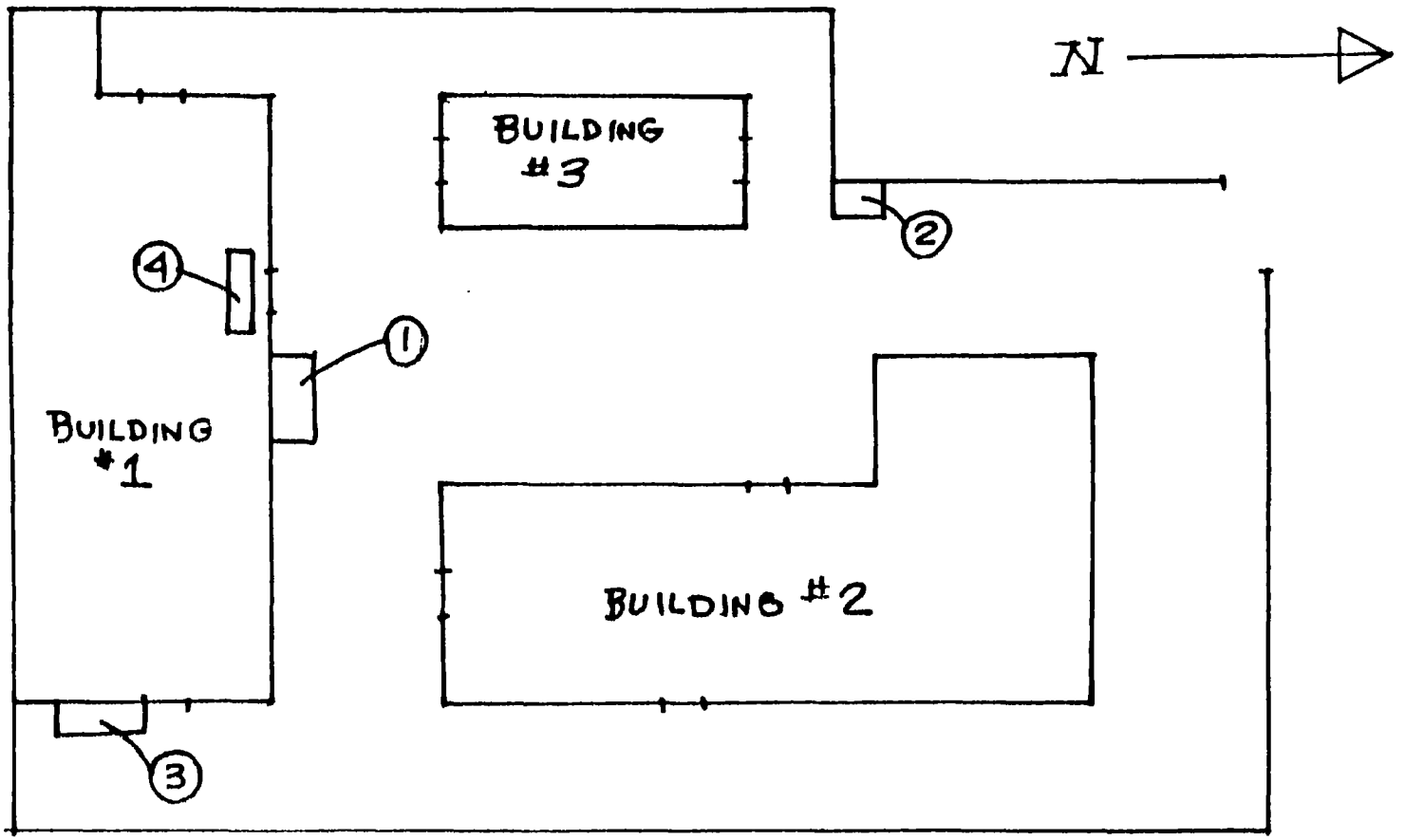
Analytical Laboratories - SCS Analytical Lab.

(213) 595-9324



PACCAR 01410

# TRICO - TORRANCE FACILITY




\# 1 - PAINT STORAGE
\# 2 - PROPANE STORAGE
\# 3 - OIL STORAGE
\# 4 - PAINT DIP TANK

Storm Drain Locations
Exits
Fire Extinguishers
(WIND DIRECTION VISUAL INDICATION)
Designated Assembly Area in Parking Lot

BY: D.G. 11-26-90

PACCAR 01411

# COUNTY OF LOS ANGELES
## FIRE DEPARTMENT

Jim D.

INVOICE NO: H0001280
CUSTOMER NO: 011401

MAKE CHECK PAYABLE TO:
**Los Angeles County Fire Department**
MAIL CHECK TO: P.O. BOX 60440
LOS ANGELES, CA 90060-0440

SEND TO:

TRICO INDUSTRIES INC
3040 E SLAUSON AVE
HUNTINGTON PARK, CA 90255

LOCATION ADDRESS:

TRICO INDUSTRIES INC
1206 W 196TH ST

Closed

SITE NO: 019-999-011401 11-1-92

| INVOICE DATE | DUE DATE | REFERENCE | PURCHASE ORDER |
|---|---|---|---|
| 11/24/93 | 12/24/93 | Recurring | |

| QTY | UNIT | DESCRIPTION | RATE | AMOUNT DUE |
|---|---|---|---|---|
| | | FEE GROUP 3 | 754.00 | 754.00 |

Pursuant to California State law, the Los Angeles County Fire Department administers the Hazardous Materials Disclosure Program and charges fees to recover its costs. The fee for your business is based upon the quantity and degree of hazard potential of the materials handled by your business. Your fee for the 1993 Calendar Year is now due.

Invoice Total $ 754.00

Mercy Schubert
(213) 266-1705



If you have any questions regarding this invoice please contact our Accounts Receivable Unit at (213) 881-2444

PACCAR 01412

TRICO INDUSTRIES, INC.
P O Box 2909 • 3040 East Slauson Avenue, Huntington Park, California 90255
(213) 586-8800 • Telex 683-1574 • FAX (213) 586-8808/8809
KOBE HYDRAULIC PUMPS

November 24, 1992

County of Los Angeles Fire Department
Hazardous Materials Section
5825 Rickenbacker Road
Commerce, CA 90040

Re: Change of business status notification.

To comply with the Hazardous Materials Inventory, Acutely Hazardous Materials Registration, Business Plan Update, Trico Industries no longer operates the manufacturing facility located at:

Trico Industries
1206 W 196th St.
Torrance, CA 90502

As of November 1, 1992 all manufacturing ceased at the location. The product line and manufacturing equipment was purchased by an out of state company with plans to move the operation. All hazardous materials will be disposed of per state and federal regulations by the end of November.

If I can be of further assistance please call (213) 586-8941.

James H. Dunavant

James H. Dunavant
Environmental/Manufacturing Engineer
Trico Industries, Inc.

Revised address
3-24-93

TRICO INDUSTRIES, INC.
KOBE HYDRAULIC PUMPS
P O Box 2909 • 3040 East Slauson Avenue, Huntington Park, California 90255
(213) 586-8800 • Telex 683-1574 • FAX (213) 586-8808/8809

November 24, 1992

County of Los Angeles Fire Department
Hazardous Materials Section
5825 Rickenbacker Road
Commerce, CA 90040

Re: Change of business status notification.

To comply with the Hazardous Materials Inventory, Acutely Hazardous Materials Registration, Business Plan Update Trico Industries no longer operates the manufacturing facility located at:

Trico Industries
19706 S. Normandy Ave.
Torrance, CA 90502

As of ~~November 1, 1992~~ all manufacturing ceased at the location. The product line and manufacturing equipment was purchased by an out of state company with plans to move the operation. All hazardous materials will be disposed of per state and federal regulations by the end of November.

If I can be of further assistance please call (213) 586-8941.

James H. Dunavant
Environmental/Manufacturing Engineer
Trico Industries, Inc.

LOS ANGELES COUNTY FIRE DEPARTMENT

# HAZARDOUS MATERIALS BUSINESS PLAN

Your business has been identified as one which may handle a hazardous material or a mixture containing a hazardous material. The State threshold quantity for the Business Plan and Inventory reporting of hazardous materials is 500 pounds, 55 gallons, or 200 cubic feet of a gas calculated at standard temperature and pressure, or the federal threshold planning quantity (if less than 500 pounds) for extremely hazardous substances. Please complete the following Business Plan and inventory.

***Please read attached requirements, definitions and instructions (pages A, B, C & D) prior to completing the Business Plan. This form shall be typed or printed legibly in ink. Return the completed original forms together to:***

Los Angeles County Fire Department
Hazardous Materials Division
*Disclosure Unit*
5825 Rickenbacker Rd.
Commerce, CA 90040-3027

Return In _____ Days or by _____ to avoid penalties and legal action.

## SECTION I: BUSINESS IDENTIFICATION DATA

| | | | |
|---|---|---|---|
| BUSINESS NAME: Trico Industries, Inc. | | | |
| SITE ADDRESS: 1260 W. 196th St. | CITY: Torrance | ZIP CODE: 90502 | SITE TELEPHONE NUMBER: (310)719-1092 |
| FACILITY UNIT: Torrance, | | | |
| BUSINESS MAILING ADDRESS: P.O. Box 4358 | CITY: Torrance | STATE: CA | ZIP CODE: 90502 |
| BUSINESS OWNER: PACCAR, Inc. | | | |
| OWNER MAILING ADDRESS: P.O. Box 1518 | CITY: Bellevue, WA | ZIP CODE: 98009 | TELEPHONE NUMBER: (206) 455-7400 |
| PRINCIPAL BUSINESS ACTIVITY: Manufacture of oil well pumping equipment | | | |

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

| | | |
|---|---|---|
| PRINT NAME OF OWNER/OPERATOR: Raymond T. Whalon | SIGNATURE: Raymond T. Whalon | DATE: 11-30-92 |
| DOCUMENT PREPARED BY: James H. Dunavant | SIGNATURE: James H. Dunavant | DATE: 11-30-92 |

## SECTION II: OCCUPANCY DATA

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

| | | | |
|---|---|---|---|
| 1. Hazardous Materials Underground Storage | NUMBER | 4. Los Angeles County Business License | NUMBER |
| 2. Los Angeles County Hazardous Waste Control License | NUMBER | 5. Fire Department Permits | NUMBER |
| 3. City Business license City of: Torrance | NUMBER | B. Does your business handle any quantity of radioactive material? ☐ Yes ☒ No | |

| | | | |
|---|---|---|---|
| C. Does your business have a storage tank(s)? ☐ Yes ☒ No if yes: | 1. Is the tank(s) above ground? ☐ Yes ☐ No | 2. Is the tank(s) below ground? ☐ Yes ☐ No | 3. Is the tank(s) in service at this time? ☐ Yes ☐ No |

019-999--005043
TRICO INDUSTRIES
19706 S NORMANDIE AVE
1 7 116

| | CITY CODE | ☐ O ☐ I ☐ S ☐ P ☐ A- | | |
|---|---|---|---|---|
| QUANTITY | FEE GROUP | DATE | BY | I.D.# |



PACCAR 01415

3 **Abatement** (remove the hazard) — Describe what you would do to **stop** and **remove** the hazard How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

- Shut down source if possible
- Isolate the spill to prevent spreading and further contamination
- Evacuate if necessary
- Notify local, state and federal agencies
- Determine most effective clean-up procedure.
- Dispose of waste as a hazardous material.

4. Describe what policies and procedures your business will follow to immediately notify and evacuate your facility in the event of a release or threatened release of hazardous materials

1. Identification of spill or release material
2. Company response - Alarms or intercom system
   a. Employee notification
   b. Employee evacuation & accountability
3. Company officials notification
4. Emergency response agencies

5. Your business is required by State Law to keep a copy of this Business Plan, including the Inventory and Site Map. Describe where this copy is located at your business.

One copy is in the Environmental/Manufacturing Engineers office in the corporate offices. A second copy is filed in the Tool Crib located in the middle of the manufacturing building.



PACCAR 01416

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form
This form shall be **TYPED** or **LEGIBLY PRINTED IN INK.** Return the completed original

LOS ANGELES COUNTY FIRE DEPARTMENT

TIN /SSN. _____

# HAZARDOUS MATERIAL INVENTORY



| FACILITY UNIT | ☐ TRADE SECRET ☐ SITE MAP ATTACHED | REPORTING PERIOD |
|---|---|---|
| Main Building | | 1/1 to 12/31 19 92 |

| BUSINESS NAME | | | TELEPHONE # |
|---|---|---|---|
| Trico Industries, Inc. | Torrance | CA | (310) 719-1092 |
| SITE ADDRESS | CITY | STATE | ZIP CODE |
| 1206 W. 196th St | Torrance | CA | 90502 |

| MAILING ADDRESS | CITY | STATE | ZIP CODE | DUN & BRADSTREET # |
|---|---|---|---|---|
| P.O. Box 4358 | Torrance, CA | | 90502 | 048341267 |

| NAME OF EMERGENCY COORDINATOR | TITLE | TELEPHONE # | 24-HOUR TELEPHONE # |
|---|---|---|---|
| Leo Cahill | Plant Manager | (310)719-1092 | (310) 542-1292 |
| NAME OF ALTERNATE EMERGENCY COORDINATOR | TITLE | TELEPHONE # | 24-HOUR TELEPHONE # |
| Gary Kennedy | Product Manager | (213) 595-0932 | |

| PRINCIPAL BUSINESS ACTIVITY | E.P.A. WASTE GENERATOR ID # | SIC CODE | PURPOSE OF DISCLOSURE |
|---|---|---|---|
| Mfg. Oilfield Equipment | CAD981450828 | 3561 | ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg in Quantity ☐ Chg of Bus Name/Address/Owner |

| COMMON NAME | UN I.D. # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| Paint Primer | 1263 | SE2279 Brown Dipping Primer | | 461 |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☒ Fire ☐ Sudden Pressure Release ☐ Reactivity | ☐ Acute ☒ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☐ Pure ☒ Mixture ☐ Waste | 365 | C |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| 6,000 ☒ LB ☒ GAL ☐ FT³ | 50 ☒ LB ☒ GAL ☐ FT³ (5) | ☐ LB ☐ GAL ☐ FT³ | 32 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Main Building N/W Corner |

U P D A T E: ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Natha Lacquer Diluent B | % Wt .99 | C.A.S. #64742-89-8 |
| 2 N-Butyl Acetate | % Wt 9.97 | C.A.S. #123-86-4 |
| 3 Toluene | % Wt 22.62 | C.A.S. #108-88-3 |

| COMMON NAME | UN I.D. # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| Paint Thiner | 1294 | SOL 505 MEK | | 212 |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Fire ☐ Sudden Pressure Release ☒ Reactivity | ☐ Acute ☒ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☒ Pure ☐ Mixture ☐ Waste | 365 | D |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| 1320 ☒ LB ☒ GAL (165) ☐ FT³ | 160 ☒ LB ☒ GAL (20) ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | 32 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Main Building N/W Corner |

U P D A T E: ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Methyl Ethyl Ketone | % Wt 100 | C.A.S. # 78-93-3 |
| 2 | % Wt | C.A.S. # |
| 3 | % Wt | C.A.S. # |

| COMMON NAME | UN I.D. # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| Propane | 1075 | Propane | 74-98-6 | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☒ Fire ☒ Sudden Pressure Release ☐ Reactivity | ☒ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☒ Gas | ☒ Pure ☐ Mixture ☐ Waste | 365 | A |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☒ FT³ (34) | ☐ LB ☐ GAL ☒ FT³ (5) | ☐ LB ☐ GAL ☐ FT³ | 22 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 2 | 4 | Outside, N/W Corner of property |

U P D A T E: ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Propane | % Wt 92 | C.A.S. # 74-98-6 |
| 2 Propylene | % Wt 5 | C.A.S. # |
| 3 Butane | % Wt 3 | C.A.S. # |

**CERTIFICATION:** I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

| PRINT NAME OF DOCUMENT PREPARER | PRINT NAME OF OWNER/OPERATOR | SIGNATURE OF OWNER/OPERATOR | DATE |
|---|---|---|---|
| | | | |

| | CITY CODE | ☐ O ☐ I ☐ S ☐ P ☐ A- _____ | | |
|---|---|---|---|---|
| QUANTITY | FEE GROUP | DATE | BY | I.D. # |

PACCAR 01417

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form
This form shall be **TYPED** or **LEGIBLY PRINTED IN INK**. Return the completed original

LOS ANGELES COUNTY FIRE DEPARTMENT

# HAZARDOUS MATERIAL INVENTORY SUPPLEMENTAL

T.I.N /S.S.N 94-0934500



| FACILITY UNIT | | REPORTING PERIOD |
|---|---|---|
| Main Building | ☐ TRADE SECRET ☐ SITE MAP ATTACHED | 1/1 to 12/31 19 92 |
| BUSINESS NAME: Trico Industries, Inc. | | TELEPHONE #: (310) 719-1092 |
| SITE ADDRESS: 1206 W. 196th | CITY: Torrance | STATE: CA ZIP CODE: 90502 |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| Hydraulic Oil | | Chevron AW hydraulic Oil 46 | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☒ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☐ Pure ☒ Mixture ☐ Waste | 365 | D |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| 165 ☐ LB ☒ GAL ☐ FT³ | .02 ☐ LB ☒ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | 29 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Outside Main building east end |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | | |
|---|---|---|---|
| 1 | Base Oil | % Wt 99% | C.A.S #64741884 |
| 2 | | % Wt | C.A.S. # |
| 3 | | % Wt | C.A.S # |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | | |
|---|---|---|---|
| 1 | | % Wt | C.A.S. # |
| 2 | | % Wt | C.A.S. # |
| 3 | | % Wt | C.A.S. # |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT UNIT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | | |
|---|---|---|---|
| 1 | | % Wt | C.A.S # |
| 2 | | % Wt | C.A.S. # |
| 3 | | % Wt | C.A.S # |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S. # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

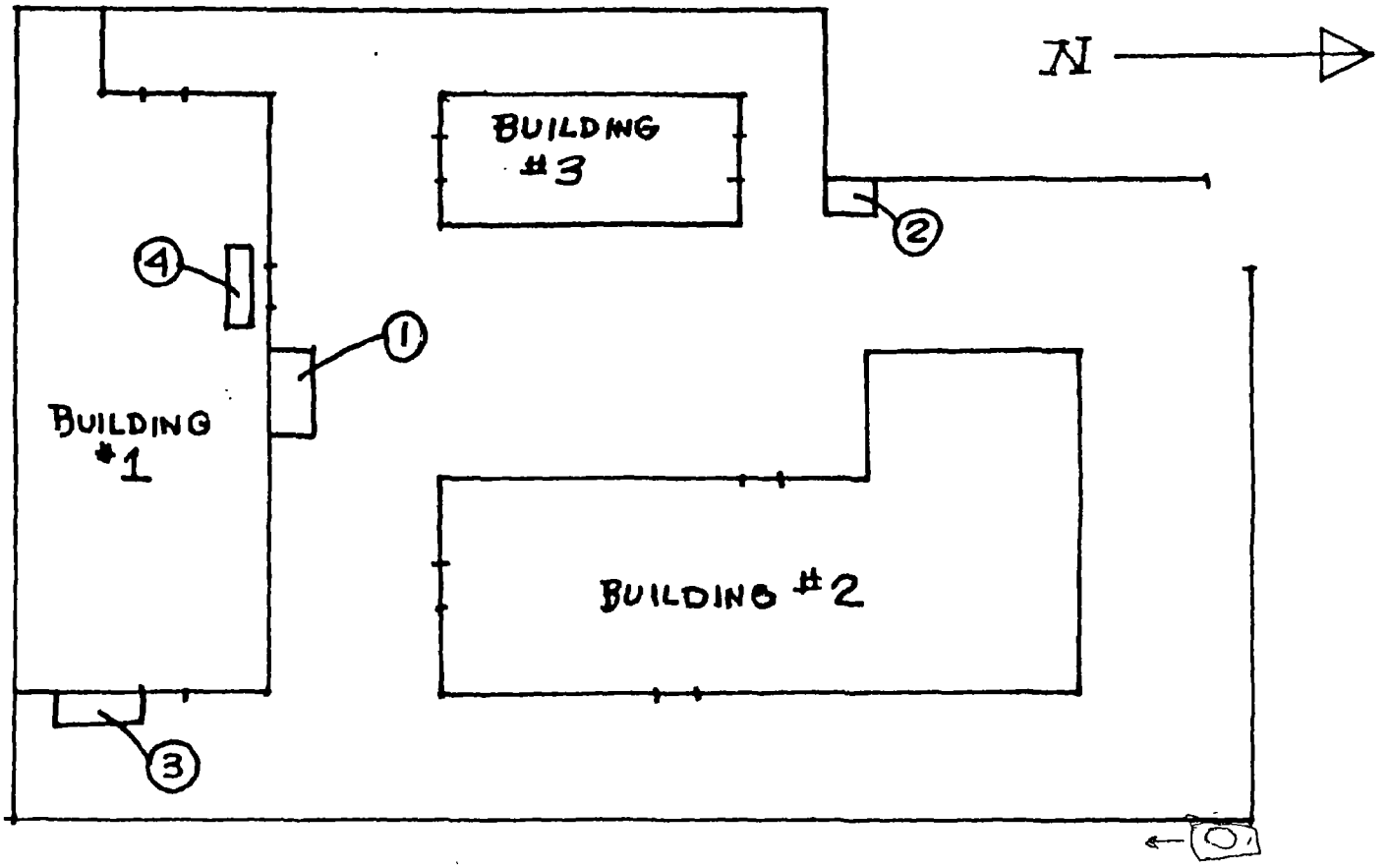
UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | | |
|---|---|---|---|
| 1 | | % Wt | C.A.S # |
| 2 | | % Wt | C.A.S # |
| 3 | | % Wt | C.A.S # |

579 (Rev 10/90)

# TRICO - TORRANCE FACILITY




\# 1 - PAINT STORAGE
\# 2 - PROPANE STORAGE
\# 3 - OIL STORAGE
\# 4 - PAINT DIP TANK

BY: D.G. 11-26-90

# COUNTY OF LOS ANGELES

FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294

(213) 890-4000

P MICHAEL FREEMAN
FIRE CHIEF
FORESTER & FIRE WARDEN


October 8, 1992

Dear Business Owner:

**SUBJECT: 1992 HAZARDOUS MATERIALS INVENTORY, ACUTELY HAZARDOUS MATERIALS REGISTRATION, BUSINESS PLAN UPDATE**

Our records indicate that your business located at:

019-999-005043
TRICO INDUSTRIES
19706 S NORMANDIE AVE
1 7 116

is subject to one or more of the following requirements.

The State Health and Safety Code and the Los Angeles County Code requires businesses handling hazardous materials in specified quantities to do the following:

1. N/A Every year submit an inventory of hazardous materials by December 31 (brown print, Forms 578 & 579). Instructions and reporting requirements are on black print pages A, B, C, & D.

2. N/A Every other year submit an up-to-date Business Plan for emergency response by December 31 (green print forms, pages 1-6). A revised site map is required whenever there is a change in location or quantity of materials handled (see Site Map Instructions).

3. N/A Every year businesses that handle acutely hazardous materials submit an Acutely Hazardous Materials Registration Form (red print, Form 3777). THIS IS SUBMITTED IN ADDITION TO #1 ABOVE.

4. Within 30 days notify this administering agency of any 100% change in the quantity of a previously reported material, any new material, a change in address, a change in business ownership, or a change in business name. Any change notification must be in writing.

**FAILURE TO SUBMIT REQUIRED FORMS MAY RESULT IN A CIVIL LIABILITY PENALTY OF UP TO $5,000 PER DAY. FAILURE TO SUBMIT REQUIRED FORMS BY DECEMBER 31, 1992 WILL RESULT IN A LATE SUBMISSION FEE OF AT LEAST $265.**

(SEE REVERSE SIDE)

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF

| | | | | | | |
|---|---|---|---|---|---|---|
| AGOURA HILLS | BRADBURY | DIAMOND BAR | IRWINDALE | LOMITA | PICO RIVERA | SIGNAL HILL |
| ARTESIA | CALABASAS | DUARTE | LA CANADA FLINTRIDGE | MALIBU | RANCHO PALOS VERDES | SOUTH EL MONTE |
| AZUSA | CARSON | GLENDORA | LAKEWOOD | MAYWOOD | ROLLING HILLS | SOUTH GATE |
| BALDWIN PARK | CERRITOS | HAWAIIAN GARDENS | LA MIRADA | NORWALK | ROLLING HILLS ESTATES | TEMPLE CITY |
| BELL | CLAREMONT | HIDDEN HILLS | LANCASTER | PALMDALE | ROSEMEAD | WALNUT |
| BELLFLOWER | COMMERCE | HUNTINGTON PARK | LA PUENTE | PALOS VERDES ESTATES | SAN DIMAS | WEST HOLLYWOOD |
| BELL GARDENS | CUDAHY | INDUSTRY | LAWNDALE | PARAMOUNT | SANTA CLARITA | WESTLAKE VILLAGE |
| | | | | | | WHITTIER |

Reporting Policy:

1. Use original forms provided for required submission(s). No other forms will be accepted without prior approval from this agency.

2. The Inventory Form Additional Page and the Acutely Hazardous Materials Registration Form may be photocopied if additional pages are required.

3. All forms must bear an original signature and be appropriately dated.

4. Keep copies of your submitted forms for your records as proof of submission.

5. If you are unsure about reporting requirements or how to complete a form, call for assistance rather than submit an incorrect form.

6. If you have any questions or need additional information, please contact the County of Los Angeles Fire Department, Hazardous Materials Section, Monday through Friday, 9:00 a.m. through 4:00 p.m. at (213) 890-4000 (NOTE CHANGE OF TELEPHONE NUMBER).

7. Submit all completed forms to:

County of Los Angeles Fire Department
Hazardous Materials Section
5825 Rickenbacker Road
Commerce, CA 90040
(NOTE CHANGE OF ADDRESS)

Inspections will be made of each business to verify the hazardous materials inventory information and the Business Plan information that you submit. **FALSIFICATION OR MISREPRESENTATION OF HAZARDOUS MATERIALS INFORMATION IS A VIOLATION OF STATE AND FEDERAL LAW.**

For your information and reference, a copy of the California Hazardous Material Spill/Release Notification Guidance booklet has been enclosed.

Very truly yours,

P. MICHAEL FREEMAN

By James V. Daleo
JAMES V. DALEO, FIRE MARSHAL
FIRE PREVENTION DIVISION
PREVENTION BUREAU

WRC:wrc:em

LOS ANGELES COUNTY FIRE DEPARTMENT

# HAZARDOUS MATERIALS BUSINESS PLAN

***Please read attached requirements, definitions and instructions (pages A, B, C, & D) prior to completing the Business Plan. This form shall be typed or printed legibly in ink.*** **Return the completed original forms together to:**

Los Angeles County Fire Department
Fire Prevention Division
Hazardous Materials Section
5823 Rickenbacker Road
Commerce, CA 90040-3027

Return by _____ to avoid penalties and legal action

## SECTION I: BUSINESS IDENTIFICATION DATA

| | | | |
|---|---|---|---|
| BUSINESS NAME: Trico Industries, Inc. | | | |
| ADDRESS: 1260 W. 196th | CITY: Torrance | ZIP CODE: 90502 | TELEPHONE NUMBER: (310) 719-1092 |
| FACILITY UNIT: Torrance | | | |
| BUSINESS MAILING ADDRESS: P.O. Box 4358 | CITY: Torrance | ZIP CODE: 90502 | |
| BUSINESS OWNER: PACCAR Inc. | | | |
| MAILING ADDRESS: P.O. Box 1518 | CITY: Bellevue, WA | ZIP CODE: 98009 | TELEPHONE NUMBER: (206) 455-7400 |
| PRINCIPLE BUSINESS ACTIVITY: Manufacture of oil well pumping equipment | | | |

I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

| | | |
|---|---|---|
| PRINT NAME OF OWNER/OPERATOR | SIGNATURE | DATE |
| DOCUMENTS PREPARED BY: James H. Dunavant | SIGNATURE: James H. Dunavant | DATE: 12/18/91 |

## SECTION II: OCCUPANCY DATA

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

| | | | |
|---|---|---|---|
| | | 3. BUSINESS LICENSE: City of Torrance | NUMBER |
| 1. Hazardous Materials Underground Storage | NUMBER | 4. Los Angeles County Business License | NUMBER |
| 2. Los Angeles County Health Dept. Hazardous Waste Control License | NUMBER | 5. Fire Department Permits | NUMBER |

**B.** Does your business have a storage tank(s)? ☒ Yes ☐ No If yes: 1. Is the tank(s) above ground? ☒ Yes ☐ No 2. Is the tank(s) below ground? ☐ Yes ☒ No 3. Is the tank(s) in service at this time? ☒ Yes ☐ No

**C.** Does your business handle any quantity of radioactive material? ☐ Yes ☒ No

**D.** Does your business handle a hazardous material or a mixture containing a hazardous material which has a quantity at any one time during the reporting year equal to, or greater than, a total weight of 500 pounds, or a total volume of 55 gallons or 200 cubic feet at standard temperature and pressure for compressed gas, or the federal threshold planning quantity (if less than 500 pounds) for extremely hazardous substances? ☒ Yes ☐ No

**If you answered "No" to both question C *and* question D above, complete Sections I and II, and return page 1 only.**

***If you answered "Yes" to either question C or question D above, you are required to complete Sections III, IV, and Inventory. You may also be required to complete the Site Map. Refer to Site Map Instructions on Page 9.***

| OFFICIAL | DIV | BN | STA | CITY CODE | ☐ O ☐ I ☐ S ☐ P ☐ A- |
|---|---|---|---|---|---|
| | | | QUANTITY | FEE GROUP | DATE / BY / I.D. # |



PACCAR 01422

## SECTION III: EMERGENCY RESPONSE PLANS AND PROCEDURES

**A.** Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Administering Agency and the Office of Emergency Services If you have a release or threatened release of hazardous materials, immediately call:

Fire/Paramedics/Police/Sheriff
Phone 911

INDIVIDUAL RESPONSIBLE FOR CALLING 911

Supervisor on Duty

**After** the local emergency response personnel are notified, you shall then notify this Administering Agency and the Office of Emergency Services.

| | |
|---|---|
| Local Administering Agency | (213) 720-5129 |
| State Office of Emergency Services | (800) 852-7550 or (916) 427-4341 |

INDIVIDUAL RESPONSIBLE FOR CALLING THIS ADMINISTERING AGENCY AND THE STATE OFFICE OF EMERGENCY SERVICES

**B.** List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous materials.

HOSPITAL/CLINIC

| ADDRESS | CITY | ZIP CODE | PHONE NUMBER |
|---|---|---|---|
| | | | ( ) |

**C. Does your business have a private on-site emergency response team?** ☐ Yes ☒ No

If yes, describe what policies and procedures your business will follow to notify your on-site emergency response team in the event of a release or threatened release of hazardous materials.

***State Law requires your business to complete all sections of this Emergency Response Procedure listed below. "N/A" is not acceptable.***

**D.** Briefly describe your business' standard operating procedures in the event of a release of threatened release of hazardous materials.

1 **Prevention** (prevent the hazard) — Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to **prevent** these hazards from occurring? You may include a discussion of safety and storage procedures

There are designated storage areas for bulk hazardous materials and, oils and hazardous waste. All areas are with secondary containment sufficient to hold the entire contents if a release should occur. Employee Training in proper storage and handling of these materials is ongoing.

2 **Mitigation** (reduce the hazard) — Describe what is done to **lessen** the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

Elimination/reduction in use, and quantities of hazardous materials, proper training in storage and handling. In response to a leak, fire, spill, explosion or airborn release all local and federal agencies will be notified, employees will be evacuated to predetermined locations at the facility not affected by the release.



PACCAR 01423

3 **Abatement** (remove the hazard) — Describe what you would do to **stop** and **remove** the hazard How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

- Shut down source if possible
- Isolate the spill to prevent spreading and further contamination
- Evacuate if necessary
- Notify local, state and federal agencies
- Determine most effective clean-up procedure.
- Dispose of waste as a hazardous material.

4 Describe what policies and procedures your business will follow to immediately notify and evacuate your facility in the event of a release or threatened release of hazardous materials

1. Identification of spill or release material
2. Company response - Alarms or intercom system
   a. Employee notification
   b. Employee evacuation & accountability
3. Company officials notification
4. Emergency response agencies

5 Your business is required by State Law to keep a copy of this Business Plan, including the Inventory and Site Map. Describe where this copy is located at your business

One copy is in the Environmental/Manufacturing Engineers office in the corporate offices. A second copy is filed in the Tool Crib located in the middle of the manufacturing building.

## SECTION IV: EMPLOYEE TRAINING PROGRAM

**A.** Describe the training for all employees in safety procedures in the event of a release or threatened release of hazardous materials This training shall include, but not be limited to, the following new employee training, annual training, periodic refresher courses, and familiarization with Section III (Emergency Plans and Procedures) of this business plan

1. New employee training with in the guidelines of SARA Right to Know - Informed they are working with hazardous materials. How to read and understand a Material Safety Data Sheet. Prper use of personal protective equipment.

Define hazardous waste.

Annual training - refresher on Right to Know.

Periodic training - Fire prevention

- emergency response
- Fire suppression
- Safety programs
- Spill notification procedures

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form
This form shall be **TYPED** or **LEGIBLY PRINTED IN INK.** Return the completed original.

T I N. / S S.N _____

LOS ANGELES COUNTY FIRE DEPARTMENT

# HAZARDOUS MATERIAL INVENTORY



| FACILITY UNIT | ☐ TRADE SECRET ☐ SITE MAP ATTACHED | REPORTING PERIOD |
|---|---|---|
| Main Building | | 1/1 to 12/31 19 92 |

| BUSINESS NAME | | | TELEPHONE # |
|---|---|---|---|
| Trico Industries, Inc. | Torrance | CA | (310) 719-1092 |
| **SITE ADDRESS** | **CITY** | **STATE** | **ZIP CODE** |
| 1206 W. 196th St | Torrance | CA | 90502 |

| MAILING ADDRESS | CITY | STATE | ZIP CODE | DUN & BRADSTREET # |
|---|---|---|---|---|
| P.O. Box 4358 | Torrance, CA | | 90502 | 048341267 |

| NAME OF EMERGENCY COORDINATOR | TITLE | TELEPHONE # | 24-HOUR TELEPHONE # |
|---|---|---|---|
| Leo Cahill | Plant Manager | (310)719-1092 | (310) 542-1292 |
| **NAME OF ALTERNATE EMERGENCY COORDINATOR** | **TITLE** | **TELEPHONE #** | **24-HOUR TELEPHONE #** |
| Gary Kennedy | Product Manager | (213) 595-0932 | |

| PRINCIPAL BUSINESS ACTIVITY | E P A WASTE GENERATOR I D # | SIC CODE | PURPOSE OF DISCLOSURE |
|---|---|---|---|
| Mfg. Oilfield Equipment | CAD981450828 | 3561 | ☒ Annual ☐ Previously Undisclosed Materials ☐ 100% Chg in Quantity ☐ Chg of Bus Name/Address/Owner |

| COMMON NAME | UN I D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| Paint Primer | 1263 | SE2279 Brown Dipping Primer | | 461 |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☒ Fire ☐ Sudden Pressure Release ☐ Reactivity | ☐ Acute ☒ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☐ Pure ☒ Mixture ☐ Waste | 365 | C |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| 6,000 ☒ LB ☒ GAL ☐ FT³ | 50 ☒ LB ☒ GAL ☐ FT³ (5) | ☐ LB ☐ GAL ☐ FT³ | 32 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Main Building N/W Corner |

U P D A T E ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Natha Lacquer Diluent B | % Wt .99 | CAS #64742-89-8 |
| 2 N-Butyl Acetate | % Wt 9.97 | CAS #123-86-4 |
| 3 Toluene | % Wt 2.62 | CAS #108-88-3 |

| COMMON NAME | UN I D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| Paint Thiner | 1294 | SOL 505 MEK | | 212 |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☒ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☒ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☒ Pure ☐ Mixture ☐ Waste | 365 | D |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| 1320 ☒ LB ☒ GAL ☐ FT³ (165) | 160 ☒ LB ☒ GAL ☐ FT³ (20) | ☐ LB ☐ GAL ☐ FT³ | 32 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Main Building N/W Corner |

U P D A T E ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES, IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Methyl Ethyl Ketone | % Wt 100 | CAS # 78-93-3 |
| 2 | % Wt | CAS # |
| 3 | % Wt | CAS # |

| COMMON NAME | UN I D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| Propane | 1075 | Propane | 74-98-6 | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☒ Fire ☒ Sudden Pressure Release ☐ Reactivity | ☒ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☒ Gas | ☒ Pure ☐ Mixture ☐ Waste | 365 | A |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) UNIT | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☒ FT³ (34) | ☐ LB ☐ GAL ☒ FT³ (5) | ☐ LB ☐ GAL ☐ FT³ | 22 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 2 | 4 | Outside, N/W Corner of property |

U P D A T E ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | |
|---|---|---|
| 1 Propane | % Wt 92 | CAS # 74-98-6 |
| 2 Propylene | % Wt 5 | CAS # |
| 3 Butane | % Wt 3 | CAS # |

**CERTIFICATION:** I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate, and complete.

| PRINT NAME OF DOCUMENT PREPARER | PRINT NAME OF OWNER/OPERATOR | SIGNATURE OF OWNER/OPERATOR | DATE |
|---|---|---|---|
| | | | |

| | CITY CODE | ☐ O ☐ I ☐ S ☐ P ☐ A- |
|---|---|---|

| QUANTITY | FEE GROUP | DATE | BY | I.D. # |
|---|---|---|---|---|
| | | | | |

# INVENTORY CODES

## 24. STORAGE CODES

A - Aboveground Tank
B - Underground Tank
C - Tank Inside Building
D - Steel Drum
E - Plastic/Non-Metallic Drum
F - Can
G - Carboy
H - Silo
I - Fiber Drum
J - Bag
K - Box
L - Cylinder
M - Glass Bottles/Jugs
N - Plastic Bottles/Jugs
O - Tote Bin
P - Tank Wagon
Q - Rail Car
R - Other

## 28. USE CODES

01 Additive
02. Adhesive
03. Aerosol
04 Anesthetic
05. Bactericide
06. Blasting
07. Carrier/Processing Solvent
08. Catalyst
09. Cleaning
10. Coolant
11. Cooling
12. Distillation
13. Drilling
14. Drying
15. Emulsifier
16. Etching
17. Experimental
18. Fabrication
19. Fertilizer
20. Finished Product
21. Formulation
22. Fuel
23. Fungicide
24. Grinding
25. Heating
26. Herbicide
27. Insecticide
28. Instuctional
29. Lubricant
30. Medical Aid or Process
31. Neutralizer
32. Painting
33. Pesticide
34. Plating
35. Preservative
36. Intermediate Process
37. Raw Material
38. Refining
39. Sealer
40. Spraying
41. Sterilizer
42. Storage
43. Stripper
44. Washing
45. Waste
46. Water Treatment
47. Welding/Soldering
48. Well Injection
99. Other-Specify on Separate Sheet

## 29. WASTE CLASSIFICATION

For each chemical that is a waste, enter the three letter code that best describes the waste.

TOX — Toxic
IGN — Ignitible
COR — Corrosive
REA - Reactive
EHM - Extremely Hazardous Materials

## 30. STORAGE PRESSURE/TEMPERATURE CODES

**STORAGE PRESSURE CODE**

1 Ambient Pressure
2 Greater than Ambient Pressure
3 Less than Ambient Pressure

**TEMPERATURE CODE**

4 Ambient Temperature
5 Greater than Ambient Temperature
6 Less than Ambient Temperature
7 Cryogenic Conditions

Please see EXAMPLE on page C of the folder for instructions prior to completion of this form.
This form shall be **TYPED** or **LEGIBLY PRINTED IN INK.** Return the completed original.

LOS ANGELES COUNTY FIRE DEPARTMENT

# HAZARDOUS MATERIAL INVENTORY SUPPLEMENTAL

TIN /SSN 94-0934500



| FACILITY UNIT | | REPORTING PERIOD |
|---|---|---|
| Main Building | ☐ TRADE SECRET ☐ SITE MAP ATTACHED | 1/1 to 12/31 1990 |
| BUSINESS NAME: Trico Industries, Inc. | | TELEPHONE #: (310) 719-1092 |
| SITE ADDRESS: 1206 W. 196th | CITY: Torrance | STATE: CA / ZIP CODE: 90502 |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| Hydraulic Oil | | Chevron AW hydraulic Oil 46 | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☒ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☒ Liquid ☐ Gas | ☐ Pure ☒ Mixture ☐ Waste | 365 | D |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| 165 ☐ LB ☒ GAL ☐ FT³ | .02 ☐ LB ☒ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | 29 |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | 1 | 4 | Outside Main building east end. |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☒ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | % Wt | C.A.S # |
|---|---|---|---|
| 1 | Base Oil | 99% | 64741884 |
| 2 | | | |
| 3 | | | |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | % Wt | C.A.S # |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT UNIT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | % Wt | C.A.S # |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

| COMMON NAME | UN I.D # | CHEMICAL NAME | C.A.S # | STATE WASTE CODE # |
|---|---|---|---|---|
| | | | | |

| PHYSICAL HAZARDS | HEALTH HAZARDS | PHYSICAL STATE | TYPE | DAYS ON SITE | STORAGE CODE |
|---|---|---|---|---|---|
| ☐ Reactivity ☐ Fire ☐ Sudden Pressure Release | ☐ Acute ☐ Chronic | ☐ Solid ☐ Liquid ☐ Gas | ☐ Pure ☐ Mixture ☐ Waste | | |

| MAXIMUM AMOUNT | AVERAGE DAILY AMOUNT | ANNUAL AMOUNT (WASTE ONLY) | USE CODE |
|---|---|---|---|
| ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | ☐ LB ☐ GAL ☐ FT³ | |

| WASTE CLASS | STORAGE PRESSURE CODE | TEMPERATURE CODE | LOCATION OF CHEMICAL |
|---|---|---|---|
| | | | |

UPDATE: ☐ ADDITION ☐ DELETION ☐ CHANGE ☐ NO CHANGE

THREE MOST HAZARDOUS COMPONENT CHEMICAL NAMES IF MIXTURE OR WASTE

| | | % Wt | C.A.S # |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |

579 (Rev 10/90)

# INVENTORY CODES

## 24. STORAGE CODES

A - Aboveground Tank
B - Underground Tank
C - Tank Inside Building
D - Steel Drum
E - Plastic/Non-Metallic Drum
F - Can
G - Carboy
H - Silo
I - Fiber Drum
J - Bag
K - Box
L - Cylinder
M - Glass Bottles/Jugs
N - Plastic Bottles/Jugs
O - Tote Bin
P - Tank Wagon
Q - Rail Car
R - Other

## 28. USE CODES

01. Additive
02. Adhesive
03. Aerosol
04. Anesthetic
05. Bactericide
06. Blasting
07. Carrier/Processing Solvent
08. Catalyst
09. Cleaning
10. Coolant
11. Cooling
12. Distillation
13. Drilling
14. Drying
15. Emulsifier
16. Etching
17. Experimental
18. Fabrication
19. Fertilizer
20. Finished Product
21. Formulation
22. Fuel
23. Fungicide
24. Grinding
25. Heating
26. Herbicide
27. Insecticide
28. Instuctional
29. Lubricant
30. Medical Aid or Process
31. Neutralizer
32. Painting
33. Pesticide
34. Plating
35. Preservative
36. Intermediate Process
37. Raw Material
38. Refining
39. Sealer
40. Spraying
41. Sterilizer
42. Storage
43. Stripper
44. Washing
45. Waste
46. Water Treatment
47. Welding/Soldering
48. Well Injection
99. Other-Specify on Separate Sheet

## 29. WASTE CLASSIFICATION

For each chemical that is a waste, enter the three letter code that best describes the waste.

TOX — Toxic
IGN — Ignitible
COR — Corrosive
REA - Reactive
EHM - Extremely Hazardous Materials

## 30. STORAGE PRESSURE/TEMPERATURE CODES

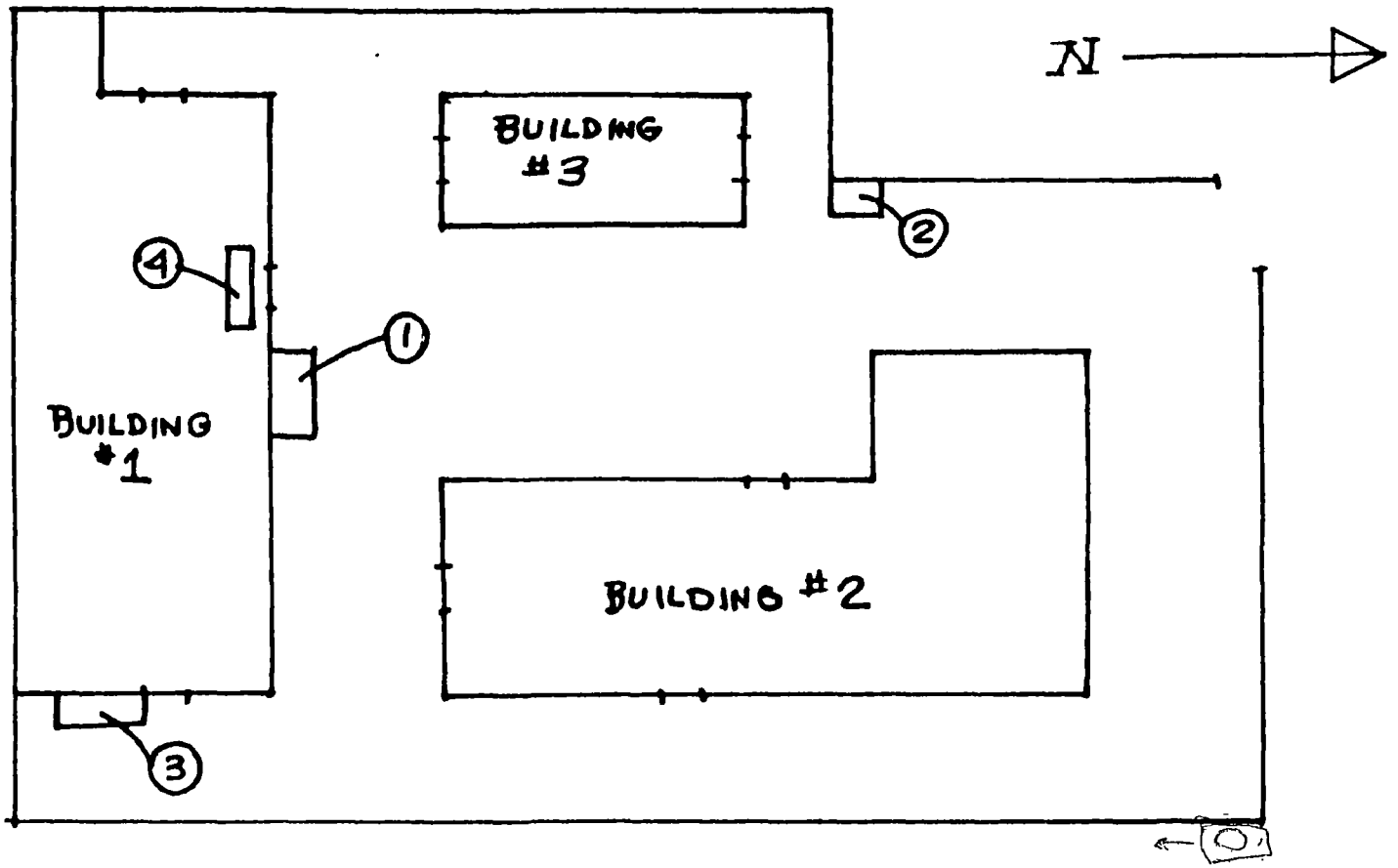
**STORAGE PRESSURE CODE**

1 Ambient Pressure
2 Greater than Ambient Pressure
3 Less than Ambient Pressure

**TEMPERATURE CODE**

4 Ambient Temperature
5 Greater than Ambient Temperature
6 Less than Ambient Temperature
7 Cryogenic Conditions

# TRICO - TORRANCE FACILITY




\# 1 - PAINT STORAGE
\# 2 - PROPANE STORAGE
\# 3 - OIL STORAGE
\# 4 - PAINT DIP TANK

BY: D.G. 11-26-90

LOS ANGELES COUNTY FIRE DEPARTMENT

# ACUTELY HAZARDOUS MATERIALS REGISTRATION

THIS FORM IS REQUIRED ANNUALLY FOR ALL ACUTELY HAZARDOUS MATERIALS IN ADDITION TO LISTING THEM AS REQUIRED ON THE ANNUAL INVENTORY REGISTRATION REQUIRED FOR ANY OF THE EPA'S 360 EXTREMELY HAZARDOUS SUBSTANCES

This form shall be typed or printed legibly in ink. Copies of this form may be made and attached for the reporting of more acutely hazardous materials or mixtures than can be registered in the space below. Return the completed original and any additional copies.

THIS REPORT IS FOR A CORRECTION ☐ OR ANNUAL REGISTRATION ☐ YEAR 19 91

| | | | |
|---|---|---|---|
| BUSINESS NAME Trico Industries, Inc. | | TAXPAYER I.D. # | |
| SITE ADDRESS 3040 E. Slauson Avenue | CITY Huntington Pk. | STATE CA | ZIP 90255 |
| MAILING ADDRESS Same | CITY | STATE | ZIP |
| PRINCIPAL BUSINESS ACTIVITY Oil well pumping equipment manufacturing | | | |
| PRINT NAME OF PERSON PREPARING THIS DOCUMENT James H. Dunavant | | DATE | |
| PREPARER'S PHONE ( 213) 586- 8941 | OWNER/OPERATOR'S PHONE ( 213 ) 586-8820 | | |
| SIGNATURE OF OWNER/OPERATOR Raymond T. Whalon | | | |
| PRINT NAME OF OWNER/OPERATOR Raymond T. Whalon | | | |

| | | | |
|---|---|---|---|
| COMMON OR BRAND NAME None | CHEMICAL NAME | | C.A.S. # |
| MAX STORAGE TEMP | MAX STORAGE PRESS | MAX PROCESS TEMP | MAX PROCESS PRESSURE |
| PHYSICAL STATE ☐ SOLID ☐ LIQUID ☐ GAS | TYPE ☐ PURE ☐ MIXTURE ☐ WASTE | MAXIMUM DAILY AMOUNT OF AHM OR MIXTURE CONTAINING AHM HANDLED (THIS QUANTITY TO BE REPORTED IN POUNDS) LBS | |
| NAME OF AHM IN MIXTURE OR WASTE | | % WT OF AHM IN MIXTURE OR WASTE % | |
| BRIEF DESCRIPTION OF PROCESSES OR HANDLING OF THIS AHM | | | |

| | | | |
|---|---|---|---|
| COMMON OR BRAND NAME | CHEMICAL NAME | | C.A.S. # |
| MAX STORAGE TEMP | MAX STORAGE PRESS | MAX PROCESS TEMP | MAX PROCESS PRESSURE |
| PHYSICAL STATE ☐ SOLID ☐ LIQUID ☐ GAS | TYPE ☐ PURE ☐ MIXTURE ☐ WASTE | MAXIMUM DAILY AMOUNT OF AHM OR MIXTURE CONTAINING AHM HANDLED (THIS QUANTITY TO BE REPORTED IN POUNDS) LBS | |
| NAME OF AHM IN MIXTURE OR WASTE | | % WT OF AHM IN MIXTURE OR WASTE % | |
| BRIEF DESCRIPTION OF PROCESSES OR HANDLING OF THIS AHM | | | |

| | | | |
|---|---|---|---|
| COMMON OR BRAND NAME | CHEMICAL NAME | | C.A.S. # |
| MAX STORAGE TEMP | MAX STORAGE PRESS | MAX PROCESS TEMP | MAX PROCESS PRESSURE |
| PHYSICAL STATE ☐ SOLID ☐ LIQUID ☐ GAS | TYPE ☐ PURE ☐ MIXTURE ☐ WASTE | MAXIMUM DAILY AMOUNT OF AHM OR MIXTURE CONTAINING AHM HANDLED (THIS QUANTITY TO BE REPORTED IN POUNDS) LBS | |
| NAME OF AHM IN MIXTURE OR WASTE | | % WT OF AHM IN MIXTURE OR WASTE % | |
| BRIEF DESCRIPTION OF PROCESSES OR HANDLING OF THIS AHM | | | |

| RECVD | CK BY | FEE GP | TOTAL RU | DATE | BY | I.D.# |
|---|---|---|---|---|---|---|
| | | | | | | |

HM3777 L.A. CO. FIRE 9/90



PACCAR 01431

Form 575
1/87.

FILED APR 20 1987

# LOS ANGELES COUNTY FIRE DEPARTMENT
# HAZARDOUS MATERIALS DISCLOSURE QUESTIONNAIRE

Please read the instructions prior to completing and returning this form.

To avoid penalty, the completed form must be returned by: APR 21 1987

## SECTION I: ADMINISTRATIVE INFORMATION

1. Business Address 1206 W. 196th STREET
   City TORRANCE, CA Zip Code 90502
2. Business Name TRICO INDUSTRIES
3. Business Phone (213) 516-5125
4. Mailing Address 1206 W. 196th STREET
   City TORRANCE, CA Zip Code 90502
5. Business Owner PACCAR - TRICO DIVISION
6. Principle Business Activity OILWELL PARTS MANUFACTURER

## SECTION II: OCCUPANCY DATA

| | YES | NO |
|---|---|---|
| 1. Does your business handle a hazardous material at or above the specified reportable quantity? (500 pounds, 55 gallons or 200 cubic feet of compressed gas) | X | |
| If yes, do you claim the hazardous material to be a trade secret? | | X |
| 2. Does your business occupy more than one building, structure or area at the above location? | X | |
| If yes, how many buildings, structures or areas contain a reportable quantity of a hazardous material? 3 | | |
| 3. Does your business occupy more than one floor of a building at the above address? | | X |
| If yes, how many floors contain a reportable quantity of a hazardous material? | | |
| 4. Does your business have an above or below ground storage tank? | | X |
| 5. Does your business handle any pesticide, herbicide, or insecticide for other than retail sales? | | X |

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 # HAHQ36-00-9481
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.

Leo P. Cahill
Signature

PLANT MANAGER
Title

4-20-87
Date

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

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

CFIRS JURIS. CODE 79

INSPECTOR _____ VERIFIED / /



PACCAR 01433

Form 577
1/87

# LOS ANGELES COUNTY FIRE DEPARTMENT
# HAZARDOUS MATERIALS BUSINESS PLAN

Please read the instructions prior to completing and returning this form to:

Los Angeles County Fire Department
Prevention and Conservation Bureau
Hazardous Materials Section
P.O. Box 3009, Terminal Annex
Los Angeles, CA 90051

To avoid penalty this form must be returned by: APR 21 1987

## SECTION I: BUSINESS IDENTIFICATION DATA

A. Business Address: 19706 South Normandie Ave. Torrance, CA 90502

B. Facility Unit: PRESS DEPT.

C. City: TORRANCE, CA Zip Code 90502

D. Business Name: TRICO INDUSTRIES

E. Business Phone: (213)516-5115

F. Mailing Address: P.O. Box 4358

G. City: TORRANCE, CA Zip Code 90510

H. Business Owner: PACCAR, INC.

## SECTION II: EMERGENCY RESPONSE PLANS AND PROCEDURES

A. Business Plan Location:

PRESS DEPT. PLANT MANAGERS OFFICE

B. Emergency Notifications:

1. Local Emergency Response Personnel

Fire Agency: LOS ANGELES COUNTY FIRE DEPT.

Phone: 911

Notified By: LEO CAHILL, PLNAT MANAGER

Police Agency: LOS ANGELES COUNTY SHERIFFS DEPT.

Phone: 911

Notified By: LEO CAHILL, PLANT MANAGER

2. Administering Agency

Agency: LOS ANGELES COUNTY FIRE DEPARTMENT

Phone: (213) 265-2706

Notified By: LEO CAHILL, PLANT MANAGER

3. State Office Of Emergency Services

Phone: (800) 852-7550 or (916) 427-4341

Notified By: LEO CAHILL, PLANT MANAGER

C. Local Emergency Medical Assistance Appropriate for Potential Accident Scenarios in Your Business:

1. Facility: TORRANCE MEDICAL EMERGENCY CLINIC

Address: 2406 TORRANCE, BLVD

City: TORRANCE, CA Zip Code 90501

Phone: (213 ) 348-3420

Facility: LITTLE COMPANY OF MARY HOSPITAL

Address: 4101 TORRANCE BLVD.

City: TORRANCE, CA Zip Code 90510

Phone: (213 ) 540-7676

2. Emergency Medical Agency: _____

_____

Phone: ( )

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:

*PROPER STORAGE AND DISPOSAL OF SAME.*

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

E. Immediate Notification and Evacuation of Your Facility:

*HANDLED AND CONTROLLED BY MANAGEMENT, FOREMAN AND LEADMAN PERSONNEL.*

## SECTION III: EMPLOYEE TRAINING PROGRAM

### A. Methods for Safely Handling Hazardous Materials:

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

### B. Procedures for Coordinating Activities with Response Agencies:

*HANDLED AND CONTROLLED BY MANAGEMENT, FOREMAN AND LEADMAN PERSONNEL.*



PACCAR 01438

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

*HANDLED THROUGH SAFETY COMMITTEE AND MANAGEMENT PERSONNEL.*

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

*HANDLED BY MANAGEMENT, FOREMAN AND LEADMAN PERSONNEL.*



PACCAR 01439

E. Provisions for Ensuring Initial and Refresher Training:

*HANDLED THROUGH SAFETY COMMITTEE.*

SECTION IV: CERTIFICATION

I, *LEO P. 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 | *PLANT MANAGER* Title | *5-1-87* Date |
|---|---|---|

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

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

CFIRS JURIS. CODE *79*

INSPECTOR _____ VERIFIED */ /*

1/9/87



PACCAR 01440

Form 578
1/87

# LOS ANGELES COUNTY FIRE DEPARTMENT HAZARDOUS MATERIALS INVENTORY

PAGE ___ OF ___

BUSINESS NAME TRICO INDUSTRIES BUSINESS ADDRESS 19706 S. NORMANDIE AVE. TORRANCE, CA 90502 FACILITY UNIT ___

BUSINESS PHONE (213) 516-5115 BUSINESS MAILING ADDRESS P.O. BOX 4356 TORRANCE, CA 90510

PRINCIPLE BUSINESS ACTIVITY OILWELL PARTS MANUFACTURER **DATE** 4 / 20 / 87

PURPOSE OF DISCLOSURE: XX ANNUAL DISCLOSURE ___ CHANGE OF BUSINESS ADDRESS ___ CHANGE OF BUSINESS OWNERSHIP ___ CHANGE OF BUSINESS NAME

___ PREVIOUSLY UNDISCLOSED HAZARDOUS MATERIALS ___ 100% OR MORE INCREASE IN QUANTITY OF A PREVIOUSLY DISCLOSED MATERIAL

CONTACT #1 LEO P. CAHILL TITLE PLANT MANAGER PHONE (BUSINESS HOURS) (213) 516-5115 PHONE (AFTER BUSINESS HOURS) (213) 542-1292

CONTACT #2 JIM NICOL TITLE ORDER DESK PHONE (BUSINESS HOURS) (213) 516-5114 PHONE (AFTER BUSINESS HOURS) (213) 376-6258

| TYPE CODE | MAXIMUM AMOUNT | ANNUAL AMOUNT | UNIT | CONT. CODE | USE CODE | LOCATION WITHIN FACILITY UNIT | %/WT. | CHEMICAL NAME/ COMMON NAME | C.A.S. NUMBER |
|---|---|---|---|---|---|---|---|---|---|
| M | 700 | 2500 | GAL | 1 \| 0 | 3 \| 2 | NORTH SIDE OF WELD SHOP | 0% | PAINT - DIPPING ENAMEL | |
| M | 300 | 8000 | GAL | 1 \| 0 | 3 \| 2 | NORTH SIDE OF WELD SHOP | 0% | NAPHTHA-PETROLEUM 1100 SOLVENT 00083794 | |
| P | 499 | 5000 | GAL | 0 \| 6 | 2 \| 2 | NORTH OF SLAJOR BUILDING | 0% | PROPANE 01126714 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

OFFICIAL USE ONLY

DIVISION ___ BATTALION ___ STATION ___ INSP. UNIT ___ INSPECTOR ___ CFIRS JURIS. CODE ___ INSPECTOR ___ VERIFIED ___ / ___ / ___

PACCAR 01441

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

April 20, 1987

Los Angeles County Fire Department
Hazardous Materials Section
P.O. Box 3009, Terminal Annex
Los Angeles, California 90051

To Whom It May Concern,

Due to the drastic cut in personnel of my staff, I find that I will need a 14-day extension. The Business Plan and Inventory will be in to you by May 1, 1987. THANK-YOU.

Sincerely,

TRICO INDUSTRIES

Leo P. Cahill
Plant Manager

# COUNTY OF LOS ANGELES

FIRE DEPARTMENT

POST OFFICE BOX 3009, TERMINAL ANNEX
LOS ANGELES CALIFORNIA 90051

(213) 265-2706

JOHN W ENGLUND
FIRE CHIEF
FORESTER & FIRE WARDEN


January 1, 1987

Dear Business Owner:

SUBJECT: HAZARDOUS MATERIALS BUSINESS PLAN

Recently enacted State law mandates all counties and cities to implement a program which will require all businesses handling hazardous materials to submit a Business Plan which shall include information on inventories, employee training, and emergency response plans and procedures. The law was enacted to provide information which will aid emergency response personnel and also be made available to governmental agencies and the public.

Within your community, this program is being implemented by the Los Angeles County Fire Department, as specified in Title 2 of the Los Angeles County Code. Our records indicate that your business handles hazardous materials in quantities that will require disclosure under the law.

Please read the attached requirements and instructions prior to completion of the enclosed Business Plan form. Your Business Plan is required to be completed and returned to the following address within twenty-one (21) calendar days.

Los Angeles County Fire Department
Prevention and Conservation Bureau
Hazardous Materials Section
P.O. Box 3009, Terminal Annex
Los Angeles, CA 90051

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF

| | | | | | | |
|---|---|---|---|---|---|---|
| AGOURA HILLS | BRADBURY | GLENDORA | LAKEWOOD | NORWALK | ROLLING HILLS ESTATES | WALNUT |
| ARTESIA | CARSON | HAWAIIAN GARDENS | LA MIRADA | PALMDALE | ROSEMEAD | WEST HOLLYWOOD |
| AZUSA | CERRITOS | HIDDEN HILLS | LANCASTER | PALOS VERDES ESTATES | SAN DIMAS | WESTLAKE VILLAGE |
| BALDWIN PARK | CLAREMONT | HUNTINGTON PARK | LA PUENTE | PARAMOUNT | SIGNAL HILL | WHITTIER |
| BELL | COMMERCE | INDUSTRY | LAWNDALE | PICO RIVERA | SOUTH EL MONTE | |
| BELLFLOWER | CUDAHY | IRWINDALE | LOMITA | RANCHO PALOS VERDES | SOUTH GATE | |
| BELL GARDENS | DUARTE | LA CANADA FLINTRIDGE | MAYWOOD | ROLLING HILLS | TEMPLE CITY | |

If you have any questions or need additional information, please contact the Hazardous Materials Section of the Los Angeles County Fire Department, Monday through Friday, 8:00 a.m. - 4:30 p.m. at (213) 265-2706.

Thank you for your cooperation and assistance.

Very truly yours,

JOHN W. ENGLUND

By Robert P. Blackburn
ROBERT P. BLACKBURN, FIRE MARSHAL
PREVENTION AND CONSERVATON BUREAU

RPB:ah

Attachment

# LOS ANGELES COUNTY FIRE DEPARTMENT
# HAZARDOUS MATERIALS BUSINESS PLAN
# INSTRUCTIONS

Review these instructions prior to completion of the attached Business Plan forms.

Ensure that all required information is complete and accurate.

All entries must be typed.

Prior to returning, make a copy for your records.

All forms shall be completed and returned within twenty-one (21) calendar days.

If your business has an existing plan which exceeds the requirements contained within the Los Angeles County Fire Department Business Plan, summarize the applicable sections of your plan in the spaces provided.

## SECTION I: BUSINESS IDENTIFICATION DATA

Complete all items in this section.

B. Facility Unit:

Facility units are separate buildings, structures or areas located at the same address which are part of your business and contain reportable quantities of hazardous materials. In the space provided, enter the designation (name, number, etc.) for each such location. A separate business plan shall be completed for each facility unit.

## SECTION II: EMERGENCY RESPONSE PLANS AND PROCEDURES

In completing the items listed in Sections II A through II D, consideration shall be given to the size and nature of your business, the nature of the damage potential of the hazardous materials handled, and the proximity of your business to residential and other areas of population.

A. Business Plan Location:

In the space provided, indicate where your Business Plan will be filed at your facility. The plan shall be made available to emergency response and jurisdictional inspection personnel upon request.

B. Emergency Notifications:

In the event of a release or threatened release of hazardous materials at your business, you are required to make immediate notification to the following agencies. Include phone numbers for each agency and the name of the person at your business responsible for making the notification.

ITEM 1: The agencies in this section are your local police and fire departments. The telephone number for both is 911.

ITEM 2: Your business' administering agency is the Los Angeles County Fire Department. The telephone number is: (213) 265-2706, Monday through Friday, 8:00 a.m. - 4:30 p.m.

ITEM 3: The telephone numbers for the State Office of Emergency Services are: (800) 852-7550 or (916) 427-4341.

C. Local Emergency Medical Assistance Appropriate for Potential Accident Scenarios in Your Business:

ITEM 1: Identify local medical treatment facilities appropriate for aiding persons injured by a release of hazardous materials present at your business.

ITEM 2: Indicate the agency and phone number which provides emergency medical response for your business.

D. Mitigation, Prevention and Abatement of Hazards:

ITEM 1: Explain your business' safeguards and safety procedures to prevent the release or spill of hazardous materials, and methods of minimizing and removing the hazards.

ITEM 2: A private on-site response team consists of persons within the facility who are necessary to respond to an incident.

E. Immediate Notification and Evacuation of Your Facility:

Describe your business' procedures for immediate notification and evacuation of your facility.



PACCAR 01446

## SECTION III: EMPLOYEE TRAINING PROGRAM

Your business' training program shall be reasonable and appropriate for the size of the business and the nature of the hazardous materials handled, and shall take into consideration the responsibilities of the employees to be trained.

Describe your business' employee training relating to the five (5) areas specified in Items A - E.

## SECTION IV: CERTIFICATION

In the spaces provided, enter the name, signature and title of a responsible representative of your business.

## SECTION V: INVENTORY

Refer to Inventory instructions.

DO NOT MAKE ANY ENTRIES IN THE "OFFICIAL USE ONLY" SECTION



PACCAR 01447

# COUNTY OF LOS ANGELES

FIRE DEPARTMENT

POST OFFICE BOX 3009 TERMINAL ANNEX
LOS ANGELES CALIFORNIA 90051

JOHN W ENGLUND
FIRE CHIEF
FORESTER & FIRE WARDEN

(213) 265-2706


January 1, 1987

Dear Business Owner,

SUBJECT: HAZARDOUS MATERIALS DISCLOSURE QUESTIONNAIRE

During the past year Assembly Bills 2185, 2187, and 3777 were chaptered into law and added to Division 20, commencing with Section 25500 of the California Health and Safety Code. The primary purpose of this law is to provide readily available information regarding the location, type and health risks of hazardous materials to emergency response personnel, authorized governmental officials and the public.

The County of Los Angeles Fire Department has been designated as the administering agency responsible for implementing this program in your community. Every business is required to comply with the reporting requirements as set forth in Title 2 of the Los Angeles County Code.

The law requires disclosure by all businesses which handle a hazardous material or a mixture containing a hazardous material in a quantity at any one time during the reporting year equal to, or greater than, a total weight of 500 pounds, or a total volume of 55 gallons, or 200 cubic feet at standard temperature and pressure for compressed gas.

A hazardous material contained solely in a consumer product for direct distribution to, and use by, the general public is exempt from further reporting requirements, unless the individual container size equals or exceeds the above stated reportable quantities (500 pounds, 55 gallons, or 200 cubic feet). This determination is made in response to public health, safety, or environmental concerns.

A hazardous material may be broadly defined as any material that, because of its quantity, concentration or physical or chemical characteristics, poses a significant present or potential hazard

to human health and safety or to the environment. A hazardous material includes, but is not limited to, a hazardous substance, hazardous waste, and any material which a handler or the administering agency has a reasonable basis for believing would be injurious to the health and safety of persons or harmful to the environment if released into the work place or the environment.

If you are in doubt whether a material is hazardous or not, please include that material in your consideration when completing the attached form. Even though you may not use, handle or store a hazardous material, the attached questionnaire is required to be completed and returned to the following address within twenty-one (21) calendar days.

Los Angeles County Fire Department
Prevention and Conservation Bureau
Hazardous Materials Section
P.O. Box 3009, Terminal Annex
Los Angeles, CA 90051

Each business that is classified as a hazardous material handler will be contacted in the near future by this Department to ensure compliance with the law. Depending on the type and quantity of hazardous materials used, generated, stored, or handled by your business, you may be required to submit additional information in the future.

If you have any questions or need additional information please contact the Hazardous Materials Section, Monday through Friday, 8:00 a.m. - 4:30 p.m. at (213) 265-2706.

Thank you for your anticipated cooperation and assistance.

Very truly yours,

JOHN W. ENGLUND

By Robert P. Blackburn
ROBERT P. BLACKBURN, FIRE MARSHAL
PREVENTION AND CONSERVATION BUREAU

RPB:ah

Attachment

# LOS ANGELES COUNTY FIRE DEPARTMENT
# HAZARDOUS MATERIALS DISCLOSURE QUESTIONNAIRE
# INSTRUCTIONS

Use these instructions to complete the attached questionnaire.

Ensure that all information is complete and accurate.

All entries must be typed.

Complete and return within twenty-one (21) calendar days.

## SECTION I: ADMINISTRATIVE INFORMATION

Complete Items 1 through 6.

ITEM 6: This entry relates to the type of business, such as metal plating, chemical manufacturing, automobile service station, etc.

## SECTION II: OCCUPANCY DATA

ITEM 1: Answer yes or no. The attached cover letter defines both hazardous materials and reportable quantities. Trade secrets are as defined in subdivision (d) of Section 6254.7 of the Government Code and Section 1060 of the Evidence Code.

ITEM 2: Answer yes or no. If yes, enter the number of buildings in the space provided.

ITEM 3: Answer yes or no.

ITEM 4: Answer yes or no.

ITEM 5: Answer yes or no.

ITEM 6: If your business possesses any licenses or permits from the agencies listed, indicate the license or permit number(s) in the spaces provided.

## SECTION III: CERTIFICATION

In the spaces provided, enter the name, signature and title of the owner or authorized representative of your business.

DO NOT MAKE ANY ENTRIES IN THE "OFFICIAL USE ONLY" SECTION

# HAZARDOUS MATERIALS HANDLER REQUIREMENTS AND RESPONSIBILITIES

The following information will assist you in understanding your requirements and responsibilities under Chapter 6.95, Division 20, beginning with Section 25500 of the Health and Safety Code and Title 2 of the Los Angeles County Code. Reference to the administering agency means the Los Angeles County Fire Department.

## REPORTABLE QUANTITIES

Any business which handles a hazardous material which has a quantity at any one time during the reporting year equal to, or greater than, a total weight of 500 pounds, or a total volume of 55 gallons, or 200 cubic feet at standard temperature and pressure for compressed gas, shall establish and implement a Business Plan for emergency response to a release or threatened release of hazardous material.

Hazardous materials contained solely in a consumer product for direct distribution to, and use by, the general public is exempt from further reporting requirements, unless the individual container size equals or exceeds the above stated reportable quantities. This determination is made in response to public health, safety, or environmental concerns.

Hazardous materials which are stored while in transit or temporarily maintained in a fixed facility for a period of less than thirty (30) days during the course of transportation are exempt from the inventory requirements of the Business Plan.

Railroad cars containing hazardous materials remaining within the same railroad facility or business facility for more than thirty (30) days are deemed stored at that location and are subject to all reporting requirements.

The administering agency, upon written application may exempt a handler from any portion of the Business Plan and/or exempt a hazardous material from the Inventory Form, if it is determined this exemption does not pose a significant hazard to human health, safety or the environment.

## BUSINESS PLAN

Business Plans shall include applicable provisions of the Health and Safety Code and any supplemental information that the administering agency finds necessary to protect the health and safety of persons, property, or the environment.

If, after review, the Business Plan is determined to be deficient, the handler shall be notified of the defects and be required to submit a corrected Business Plan within 30 days of notice.

The administering agency shall exempt a business operating a farm for purposes of cultivating the soil or raising or harvesting any agricultural or horticultural commodity from filing specified portions of the information in the Business Plan.

Any business required to file a Pipeline Operations Contingency Plan in accordance with the California Pipeline Safety Act of 1981, may file a copy of those plans with the administering agency in place of the Emergency Response Plan section of the Business Plan.

BUSINESS PLAN - REVIEW, REVISION AND CHANGES

The handler shall review the Business Plan at least once every two years to determine if a revision is needed, and certify to the administering agency that the review was completed and necessary changes were made to the plan. A copy of these changes shall be submitted to the administering agency as part of this certification.

Whenever a substantial change in the handler's operations occur which requires a modification of the Business Plan, the handler shall submit a copy of the plan revisions to the administering agency within 30 days of the operational change.

Any business which handles a reportable quantity of a hazardous material shall annually submit a completed Inventory Form to the jurisdictional administering agency.

TRADE SECRET INFORMATION

If a business believes that the submission of the Inventory Form involves the release of "trade secret" information, that belief shall be indicated on the submitted Inventory Form. As used in this Chapter "trade secret" has the meanings given to it by Section 6254.7 of the Government Code and Section 1060 of the Evidence Code.

Any information which is considered a "trade secret" shall not be disclosed to anyone except the following:

(1) An officer, employee, or contractor of the County, City, State, or the United States, in connection with the official duties of that officer or employee under any law for the protection of health and safety.

(2) A physician, when he certifies in writing to the administering agency that the information is necessary to the medical treatment of his patient.



PACCAR 01452

## REPORTING REQUIREMENTS

The handler shall, upon discovery, provide an immediate verbal report of any release or threatened release of a hazardous material to local emergency response personnel, the administering agency and the Office of Emergency Services.

This report shall be required if there is a reasonable belief that the release or threatened release poses a significant present or potential hazard to human health and safety, property, or the environment.

The report shall include, as a minimum:

- The exact location of the incident
- The name of the person making the report
- The hazardous materials involved
- An estimate of the quantity of hazardous materials involved
- If known, the potential hazards presented by the involved hazardous materials

"Release" means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, unless permitted or authorized by a regulatory agency.

"Threatened release" means a condition creating a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment.

## FACILITY ACCESS

The handler shall provide all State, City, or County fire, public health or safety and emergency rescue personnel with access to the handler's facilities.

## FEES

Fees to recover the costs of program administration will vary from $50.00 to $250.00, based on the quantity of hazardous materials handled by your business. The following chart reflects the fee amount in relation to the quantity of materials in each physical state (solid, liquid, or compressed gas).



PACCAR 01453

After verification by this agency of the information contained in your Business Plan, your business will be billed at the appropriate fee amount for your handler classification.

| Handler Classification | MINOR | MODERATE | MAJOR |
|---|---|---|---|
| Fee Amount | $50.00 | $150.00 | $250.00 |
| Solid (Pounds) | 500-5,000 | 5,001-25,000 | 25,001+ |
| Liquid (Gallons) | 55-550 | 551-2,750 | 2,751+ |
| Compressed Gas (Cubic Feet) | 200-2,000 | 2,001-10,000 | 10,001+ |

Exception: Underground fuel storage tanks will be charged at the minor handler amount of $50.00.

## VIOLATIONS AND FINES

Any business that violates any provision of the Business Plan shall be civilly liable in an amount of not more than two thousand dollars ($2,000) for each day of the violation.

Any business that knowingly violates any provision of the Business Plan shall be civilly liable in an amount not to exceed five thousand dollars ($5,000) for each day of the violation.

Any person or business who fails to immediately report any release or threatened release of a hazardous material to the administering agency shall, upon conviction, be punished by a fine of not more than twenty-five thousand dollars ($25,000) for each day of violation, or by imprisonment in the County jail for not more than one year, or by both the fine and imprisonment. For a second conviction, the person shall be punished by a fine of not less than two thousand dollars ($2,000) or more than fifty thousand dollars ($50,000) per day of violation, or by imprisonment in the State prison for 16, 20, or 24 months or in the County jail for not more than one year, or by both the fine and imprisonment.

If the violation results in, or significantly contributes to an emergency, including a fire, to which the County or City is required to respond, the person shall also be assessed the full cost of the County or City emergency response as well as the cost of cleaning up and disposing of the hazardous materials.



PACCAR 01454

## HAZARDOUS MATERIAL DEFINITIONS

Hazardous materials are those chemicals or substances which exhibit physical or health hazards, whether the materials are in a usable or waste state.

PHYSICAL HAZARD - is a chemical for which there is scientifically valid evidence that it is a (an):

Blasting agent
Combustible liquid
Compressed gas
Cryogenic fluid
Explosive
Flammable gas
Flammable liquid
Flammable solid
Oxidizer
Pyrophoric
Unstable (reactive)
Water-reactive

HEALTH HAZARD - is a chemical for which there is statistically significant evidence based on at least one study conducted in accordance with established scientific principles that acute or chronic health effects may occur in exposed persons. The term "health hazard" includes chemicals which are:

Carcinogens
Corrosives
Etiologic agent
Highly toxic (including poisons)
Irritants
Radioactive
Target organ toxins

### A. PHYSICAL HAZARD DEFINITIONS

BLASTING AGENT - is any material or mixture consisting of a fuel and oxidizer intended for blasting, not otherwise classified as an explosive, in which none of the ingredients is classified as explosives, provided that the finished product as mixed and packaged for use or shipment cannot be detonated by means of a Number 8 test blasting cap when unconfined. Materials or mixtures classified as nitrocarbonitrates by the Department of Transportation regulations shall be included in this definition.

COMBUSTIBLE LIQUID - is a liquid having a flash point at or above 100° F.

COMPRESSED GAS - is (1) a gas or mixture of gases in a container, having an absolute pressure exceeding 40 psi at 70°F (21.1°C); or (2) a gas or mixture of gases in a container, having an absolute pressure exceeding 104 psi at 130°F (54.4 °C) regardless of the pressure at 70°F (21.1°C).

CYROGENIC FLUIDS - are those fluids that have a normal boiling point below -150°F.

EXPLOSIVE - is (1) a chemical that causes a sudden, almost instantaneous release of pressure, gas, and heat when subjected to sudden shock, pressure or high temperatures; or (2) any chemical other than a blasting agent, commonly used or intended to be used for the purpose of producing an explosive effect.

FLAMMABLE GAS - is a gas which is flammable in a mixture of thirteen (13) percent or less (by volume) with air, or the flammable range with air is wider than twelve (12) percent, regardless of the lower limit.

FLAMMABLE LIQUID - is any liquid having a flash point below 100°F and having a vapor pressure not exceeding 40 psi at 100°F.

FLAMMABLE SOLID - is a solid substance, other than one which is defined as a blasting agent or explosive, that is liable to cause fire through friction, or as a result of retained heat from manufacture or which has an ignition temperature below 212°F, or which burns so vigorously or persistently when ignited so as to create a serious hazard. This includes finely divided solid materials which, when dispersed in air as a cloud, may be ignited and cause an explosion.

OXIDIZER - is a chemical, other than a blasting agent or explosive, that initiates or promotes combustion in other materials, thereby causing fire either of itself or through the release of oxygen or other gases.

PYROPHORIC - is a chemical that will spontaneously ignite in air at a temperature of 130 1/2°F (54.4 1/2°C) or below.

UNSTABLE (reactive) - is a chemical which in the pure state, or as produced or transported, will vigorously polymerize, decompose, condense, or will become self-reactive under conditions of shock, pressure or temperature.



PACCAR 01456

WATER-REACTIVE MATERIALS - are materials which explode, violently react, produce flammable, toxic or other hazardous gases or evolve enough heat to cause self-ignition or ignition of nearby combustibles upon exposure to water or moisture.

B. HEALTH HAZARDS

CARCINOGEN - a chemical is considered to be a carcinogen if: (1) it has been evaluated by the International Agency for Research on Cancer (IARC) and found to be a carcinogen or potential carcinogen; or (2) it is listed as a carcinogen or potential carcinogen in the latest edition of the Annual Report on Carcinogens published by the National Toxicology Program (NTP).

CORROSIVE - is a chemical that causes visible destruction of, or irreversible lacerations in, living tissue.

ETIOLOGIC AGENT - is a micro-organism, or its toxin, which causes or may cause human disease, and is limited to those agents listed in CFR 42, part 72.3.

HIGHLY TOXIC MATERIALS - are chemicals or substances classified as "Poison A or B" under Title 49 of the Code of Federal Regulations (CFR 49); or which have been assigned a health hazard rating of 3 or 4 when rated in accordance with Uniform Fire Code (UFC) Standard Number 79-3.

IRRITANT - is a substance other than a corrosive which causes a reversible inflammatory effect on living tissue by chemcial action at the site of contact.

RADIOACTIVE MATERIAL - is any material or combination of materials that spontaneously emits ionizing radiation.

TARGET ORGAN TOXIN - is a substance which causes damage (target organ effects) to particular organs or systems.



PACCAR 01457

James — Lisa —

cc Dennis Opacki
fyc
RKS 3/12/91

TRICO INDUSTRIES, INC.
KOBE HYDRAULIC PUMPS
P.O. Box 2909 • 3040 East Slauson Avenue, Huntington Park, California 90255
(213) 586-8800 • Telex 683-1574 • FAX (213) 586-8808/8809

March 6, 1991

Office of Environmental Affairs
P.O. Box 2815
Sacramento, California 95812

Attention: Section 313 Reports

I am submitting amended toxic chemical release forms for the years 1987, 1988 and 1989 for the Trico Industries, Torrance facility. Research indicated there was a release of chemicals identified on the section 313 Toxic Chemicals list in, the otherwise use category, excess of the 10,000 lb. limit.

A consulting firm, see attached, indicated, for 1987, the facility wasn't subject to filing. Since the amounts of enamel paint and toluene used remained the same for 1988 and 1989 the facility thought they were not subject to filing for those two years.

If you have any questions please don't hesitate to call me at (213) 586-8941.

Respectfully

James H. Dunavant

James H. Dunavant
Environmental Manufacturing Engineer

JHD:m

cc: Ray Whalon
Bill Selvig
Leo Cahill
Gary Brookshire
Bob Butler

TRICO INDUSTRIES, INC.
KOBE HYDRAULIC PUMPS
P O Box 2909 • 3040 East Slauson Avenue, Huntington Park, California 90255
(213) 586-8800 • Telex 683-1574 • FAX. (213) 586-8808/8809

March 6, 1991

U.S. Environmental Protection Agency
P.O. Box 70266
Washington, D.C. 20024-0266

Attention: Toxic Chemical Release Inventory

I am submitting amended toxic chemical release forms for the years 1987, 1988 and 1989 for the Trico Industries, Torrance facility. Research indicated there was a release of chemicals identified on the section 313 Toxic Chemicals list in, the otherwise use category, excess of the 10,000 lb. limit.

A consulting firm, see attached, indicated, for 1987, the facility wasn't subject to filing. Since the amounts of enamel paint and toluene used remained the same for 1988 and 1989 the facility thought they were not subject to filing for those two years.

If you have any questions please don't hesitate to call me at (213) 586-8941.

Respectfully,

James H. Dunavant
Environmental Manufacturing Engineer

JHD:m

cc: Ray Whalon
Bill Selvig
Leo Cahill
Gary Brookshire
Bob Butler

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

2/21/91
1987 - MSDS

File: 1993 form R

SARA Title III, Section 313

Form R
Production Year 1992

1. Facility: Trico - Torrance, CA

2. What is/are your SIC code(s) 3561

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1992, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

James H. Dunavant
Signed

6-18-93
Date

Return to: J. C. Leonard
Environmental Engineer
Bellevue, WA

by July 30, 1993

[ ] Previously submitted Form R for production year 1992

(IMPORTANT: Type or print; read instructions before completing form)

Approved OMB Number: 2070-0093
Approval Expires: 11/92



EPA
United States Environmental Protection Agency

# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical, Category, or Generic Name |
| Toluene |

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

## PART I. FACILITY IDENTIFICATION INFORMATION

**SECTION 1. REPORTING YEAR**

19 91

**SECTION 2. TRADE SECRET INFORMATION**

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms)
[X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon, VP Manufacturing

Signature: Raymond T. Whalon

Date Signed: 3-8-93

**SECTION 4. FACILITY IDENTIFICATION**

4.1

| | |
|---|---|
| Facility or Establishment Name: Trico Industries, Inc. | TRI Facility ID Number: 13-90-04573470-6-CA |
| Street Address: 1206 W. 196th St. | |
| City: Torrance | County: Los Angeles |
| State: CA | Zip Code: 90502 |
| Mailing Address (if different from street address): | PUT LABEL HERE |
| City: | |
| State: / Zip Code: | |

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | | b. [ ] Part of a facility | | | |
| 4.3 | Technical Contact | Name: Jim Dunavant | | | Telephone Number (include area code): (231) 586-8941 | | |
| 4.4 | Public Contact | Name: Terry Hall | | | Telephone Number (include area code): (213) 586-8840 | | |
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05-486-4145 | | | | | |
| | | b. | | | | | |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAD000014472 | | | | | |
| | | b. | | | | | |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A | | | | | |
| | | b. | | | | | |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A | | | | | |
| | | b. | | | | | |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 834 1267 |

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category or Generic Name: Tolune

### SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you complete Section 2 below.)

| | |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 108-88-3 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Toluene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | — |

### SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you complete Section 1 above.)

| | |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

### SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

| | | | If produce or import: |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. ☐ Produce<br>b. ☐ Import | c. ☐ For on-site use/processing<br>d. ☐ For sale/distribution<br>e. ☐ As a byproduct<br>f. ☐ As an impurity |
| 3.2 | Process the toxic chemical: | a. ☐ As a reactant<br>b. ☐ As a formulation component | c. ☐ As an article component<br>d. ☐ Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. ☐ As a chemical processing aid<br>b. ☒ As a manufacturing aid | c. ☐ Ancillary or other use |

### SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

| | | |
|---|---|---|
| 4.1 | 03 | (Enter two-digit code from instruction package.) |

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-0453470-6-CA |
| Toxic Chemical Category or Generic Name |
| Toluene |

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 29,326 | E | |
| 5.2 | Stack or point air emissions | ☒ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name: N/A | | | | |
| 5.3.2 | Stream or Water Body Name: N/A | | | | |
| 5.3.3 | Stream or Water Body Name: N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.



Range Codes A = 1 - 10 pounds B = 11 - 499 pounds, C = 500 - 999 pounds

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical Category, or Generic Name |
| Toluene |

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|
| 5.3. | Stream or Water Body Name | | | |
| N/A | | | | |
| 5.3. | Stream or Water Body Name | | | |
| N/A | | | | |
| 5.3. | Stream or Water Body Name | | | |
| N/A | | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | N/A |

**6.1.B POTW Name and Location Information**

| | |
|---|---|
| 6.1.B. POTW Name | 6.1.B. POTW Name |
| N/A | N/A |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here: [ ] (example: 1, 2, 3, etc.)



Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical, Category, or Generic Name |
| Toluene |

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13 -90-04573470-6-CA

Chemical, Category, or Generic Name: Toluene

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released * | 27,560 | 27,000 | 29,326 | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | 0 | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | 0 | |
| 8.4 | Quantity recycled on-site | 0 | 0 | 0 | |
| 8.5 | Quantity recycled off-site | 0 | 0 | 0 | |
| 8.6 | Quantity treated on-site | 0 | 0 | 0 | |
| 8.7 | Quantity treated off-site | 0 | 0 | 0 | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | N/A | | | |
| 8.9 | Production ratio or activity index | | | | |

| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | |
|---|---|---|---|---|
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | YES [ ] | NO [X] |
|---|---|---|---|

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Toluene

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes No |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes No |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes No |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes No |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes No |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)



Range Codes: A = 1 - 10 pounds, B = 11 - 499 pounds, C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Xylene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)

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Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes [ ] No [ ] |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes [ ] No [ ] |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes [ ] No [ ] |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes [ ] No [ ] |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes [ ] No [ ] |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Chemical Category or Generic Name |
| Xylene |

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released * | 18 | 18 | 15 | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | 0 | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | 0 | |
| 8.4 | Quantity recycled on-site | 0 | 0 | 0 | |
| 8.5 | Quantity recycled off-site | 0 | 0 | 0 | |
| 8.6 | Quantity treated on-site | 0 | 0 | 0 | |
| 8.7 | Quantity treated off-site | 0 | 0 | 0 | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | | | N/A | |
| 8.9 | Production ratio or activity index | | | | |

| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | |
|---|---|---|---|---|
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | YES [ ] | NO [X] |
|---|---|---|---|

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching dumping or disposing into the environment." Do not include any quantity treated on-site or off-site

(IMPORTANT. Type or print; read instructions before completing form)

Approved OMB Number: 2070-0093
Approval Expires: 11/92



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# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Xylene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: [ ]

For EPA use only

**IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.**

## PART I. FACILITY IDENTIFICATION INFORMATION

**SECTION 1. REPORTING YEAR**

19 92

**SECTION 2. TRADE SECRET INFORMATION**

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms)
[X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon, VP Manufacturing

Signature: Raymond T. Whalon

Date Signed: 3-8-93

**SECTION 4. FACILITY IDENTIFICATION**

4.1

Facility or Establishment Name: Trico Industries, Inc.

TRI Facility ID Number: 13-90-045737470-6-CA

Street Address: 1206 W. 196 th St.

City: Torrance

County: Los Angeles

State: CA

Zip Code: 90502

Mailing Address (if different from street address):

City:

State:

Zip Code:

PUT LABEL HERE

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | |
|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | b. [ ] Part of a facility |
| 4.3 | Technical Contact | Name: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 4.4 | Public Contact | Name: Terry Hall | Telephone Number (include area code): (213) 586-8840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05 486 4145 |
| | | b. |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAL 0000 14472 |
| | | b. |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A |
| | | b. |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A |
| | | b. |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR, Inc. |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 8341267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

| TRI FACILITY ID NUMBER |
|---|
| 13-90-0453470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

| SECTION 1. TOXIC CHEMICAL IDENTITY | (Important: DO NOT complete this section if you complete Section 2 below.) |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 1330-20-7 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Xylene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | |

| SECTION 2. MIXTURE COMPONENT IDENTITY | (Important: DO NOT complete this section if you complete Section 1 above.) |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

**SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY**
(Important: Check all that apply.)

| | | | If produce or import: |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. ☐ Produce<br>b. ☐ Import | c. ☐ For on-site use/processing<br>d. ☐ For sale/distribution<br>e. ☐ As a byproduct<br>f. ☐ As an impurity |
| 3.2 | Process the toxic chemical: | a. ☐ As a reactant<br>b. ☐ As a formulation component | c. ☐ As an article component<br>d. ☐ Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. ☐ As a chemical processing aid<br>b. ☐ As a manufacturing aid | c. ☒ Ancillary or other use |

**SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

| | | |
|---|---|---|
| 4.1 | 02 (Enter two-digit code from instruction package.) | |

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United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Xylene

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 15 | C | |
| 5.2 | Stack or point air emissions | ☐ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name: N/A | | | | |
| 5.3.2 | Stream or Water Body Name: N/A | | | | |
| 5.3.3 | Stream or Water Body Name: N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

Range Codes: A = 1 - 10 pounds, B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical Category or Generic Name: Xylene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | |

6.1.B POTW Name and Location Information

| | |
|---|---|
| 6.1.B.__ POTW Name | 6.1.B.__ POTW Name |
| N/A | |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]
(example: 1, 2, 3, etc.)



Range Codes A = 1 - 10 pounds, B = 11 - 499 pounds
C = 500 999 pounds

SARA Title III, Section 313

Form R
Production Year 1991

1. Facility: Torrance, Ca

2. What is/are your SIC code(s) 3561

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

Signed

8-27-97
Date

Return to: J. C. Leonard
Environmental Engineer
Bellevue, WA

by September 4, 1992

[ ] Previously submitted Form R for production year 1991

(IMPORTANT: Type or print; read instructions before completing form)

Form Approved OMB Number 2070-0093
Approval Expires 11/92



EPA
United States Environmental Protection Agency

# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

## PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR: 19 91

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
☐ Yes (Answer question 2.2; Attach substantiation forms) ☒ No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: ☐ Sanitized ☐ Unsanitized

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name: Trico Industries, Inc.

TRI Facility ID Number: 13-90-04573470

Street Address: 1206 W. 196th St.

City: Torrance

County: Los Angeles

State: CA

Zip Code: 90502

Mailing Address (if different from street address):

City:

State:

Zip Code:

90502TRCND1206W
TRICO INDUSTRIES INC.
1206 W. 196TH ST.
TORRANCE, CA 90502
Box 438

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | |
|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | b. [ ] Part of a facility |
| 4.3 | Technical Contact | Name: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 4.4 | Public Contact | Name: Terry Hall | Telephone Number (include area code): (213) 586-8840 |

| 4.5 SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
|---|---|---|---|---|---|---|

| 4.6 Latitude and Longitude | Latitude | | | Longitude | | |
|---|---|---|---|---|---|---|
| | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05 486 4145 |
| | | b. |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAL 0000 14472 |
| | | b. |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A |
| | | b. |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A |
| | | b. |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR, Inc. |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 8341267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

| TRI FACILITY ID NUMBER |
|---|
| 13-90-0453470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

| SECTION 1. TOXIC CHEMICAL IDENTITY | (Important: DO NOT complete this section if you complete Section 2 below.) |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 1330-20-7 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Xylene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | |

| SECTION 2. MIXTURE COMPONENT IDENTITY | (Important: DO NOT complete this section if you complete Section 1 above.) |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

**SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY**
(Important: Check all that apply.)

| | | | |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. ☐ Produce<br>b. ☐ Import | If produce or import:<br>c. ☐ For on-site use/processing<br>d. ☐ For sale/distribution<br>e. ☐ As a byproduct<br>f. ☐ As an impurity |
| 3.2 | Process the toxic chemical: | a. ☐ As a reactant<br>b. ☐ As a formulation component | c. ☐ As an article component<br>d. ☐ Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. ☐ As a chemical processing aid<br>b. ☐ As a manufacturing aid | c. ☒ Ancillary or other use |

**SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

| | | |
|---|---|---|
| 4.1 | 02 (Enter two-digit code from instruction package.) | |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category or Generic Name: Xylene

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 18 | C | |
| 5.2 | Stack or point air emissions | ☐ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name: N/A | | | | |
| 5.3.2 | Stream or Water Body Name: N/A | | | | |
| 5.3.3 | Stream or Water Body Name: N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.

EPA Form 9350-1 (Rev 5/14/92) - Previous editions are obsolete

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | |

**6.1.B POTW Name and Location Information**

| | | | |
|---|---|---|---|
| 6.1.B.__ POTW Name | | 6.1.B.__ POTW Name | |
| N/A | | | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip Code | State | Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]
(example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)

EPA Form 9350-1 (Rev 5/14/92) - Previous editions are obsolete.

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 [ ] 2 [ ] | 7A.1c | 7A.1d | 7A.1e |
| | 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] | | % | Yes [ ] No [ ] |
| 7A.2a | 7A.2b 1 [ ] 2 [ ] | 7A.2c | 7A.2d | 7A.2e |
| | 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] | | % | Yes [ ] No [ ] |
| 7A.3a | 7A.3b 1 [ ] 2 [ ] | 7A.3c | 7A.3d | 7A.3e |
| | 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] | | % | Yes [ ] No [ ] |
| 7A.4a | 7A.4b 1 [ ] 2 [ ] | 7A.4c | 7A.4d | 7A.4e |
| | 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] | | % | Yes [ ] No [ ] |
| 7A.5a | 7A.5b 1 [ ] 2 [ ] | 7A.5c | 7A.5d | 7A.5e |
| | 3 [ ] 4 [ ] 5 [ ] 6 [ ] 7 [ ] 8 [ ] | | % | Yes [ ] No [ ] |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Chemical, Category or Generic Name: Xylene

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released * | 18 | 18 | | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 | Quantity recycled on-site | 0 | 0 | | |
| 8.5 | Quantity recycled off-site | 0 | 0 | | |
| 8.6 | Quantity treated on-site | 0 | 0 | | |
| 8.7 | Quantity treated off-site | 0 | 0 | | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | | | N/A | |
| 8.9 | Production ratio or activity index | | | | |

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
|---|---|---|---|---|
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| | | YES | NO |
|---|---|---|---|
| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | | X |

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on site or off site.

(IMPORTANT: Type or print: read instructions before completing form)

Form Approved OMB Number: 2070-0093
Approval Expires: 11/92



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# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA use only

**IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.**

## PART I. FACILITY IDENTIFICATION INFORMATION

**SECTION 1. REPORTING YEAR**

19 91

**SECTION 2. TRADE SECRET INFORMATION**

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon, V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

**SECTION 4. FACILITY IDENTIFICATION**

4.1
Facility or Establishment Name: Trico Industries, Inc.
TRI Facility ID Number: 13-90-04573470-6-CA
Street Address: 1206 W. 196th St.
City: Torrance
County: Los Angeles
State: CA
Zip Code: 90502
Mailing Address (if different from street address):
City:
State:
Zip Code:

PUT LABEL HERE

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | |
|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | b. [ ] Part of a facility |
| 4.3 | Technical Contact | Name: Jim Dunavant | Telephone Number (include area code): (231) 586-8941 |
| 4.4 | Public Contact | Name: Terry Hall | Telephone Number (include area code): (213) 586-8840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |

| | | Latitude | | | Longitude | | |
|---|---|---|---|---|---|---|---|
| 4.6 | Latitude and Longitude | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05-486-4145 |
| | | b. |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAD000014472 |
| | | b. |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A |
| | | b. |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A |
| | | b. |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 834 1267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Tolune

### SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you complete Section 2 below.)

| | |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 108-88-3 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Toluene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | |

### SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you complete Section 1 above.)

| | |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

### SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

| | | | |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>d. [ ] For sale/distribution<br>e. [ ] As a byproduct<br>f. [ ] As an impurity |
| 3.2 | Process the toxic chemical: | a. [ ] As a reactant<br>b. [ ] As a formulation component | c. [ ] As an article component<br>d. [ ] Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. [ ] As a chemical processing aid<br>b. [x] As a manufacturing aid | c. [ ] Ancillary or other use |

### SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

| | | |
|---|---|---|
| 4.1 | 03 | (Enter two-digit code from instruction package.) |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-0453470-6-CA

Toxic Chemical Category, or Generic Name: Tolulen

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 27,560 | E | |
| 5.2 | Stack or point air emissions | ☒ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.3.2 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.3.3 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 3 -90-04573470-6-CA

Chemical Category, or Generic Name: Toluene

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released* | 27,560 | 27,000 | | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 | Quantity recycled on-site | 0 | 0 | | |
| 8.5 | Quantity recycled off-site | 0 | 0 | | |
| 8.6 | Quantity treated on-site | 0 | 0 | | |
| 8.7 | Quantity treated off-site | 0 | 0 | | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | N/A | | | |
| 8.9 | Production ratio or activity index | | | | |

| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | |
|---|---|---|---|---|
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | YES [ ] | NO [X] |
|---|---|---|---|

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical, Category, or Generic Name |
| Toluene |

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes [ ] No [ ] |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes [ ] No [ ] |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes [ ] No [ ] |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes [ ] No [ ] |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes [ ] No [ ] |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)

Range Codes: A = 1 - 10 pounds B = 11 - 499 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|
| 5.3.__ Stream or Water Body Name: N/A | | | |
| 5.3.__ Stream or Water Body Name: N/A | | | |
| 5.3.__ Stream or Water Body Name: N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | N/A |

**6.1.B POTW Name and Location Information**

| 6.1.B.__ POTW Name | 6.1.B.__ POTW Name |
|---|---|
| N/A | N/A |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here: [ ] (example: 1, 2, 3, etc.)



Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

SARA Title III, Section 313

Form R
Production Year 1991

1. Facility: Torrance, Ca

2. What is/are your SIC code(s) 3561

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

Signed

8-27-92
Date

Return to: J. C. Leonard
Environmental Engineer
Bellevue, WA

by September 4, 1992

[ ] Previously submitted Form R for production year 1991

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|
| 5.3.__ Stream or Water Body Name<br>N/A | | | |
| 5.3.__ Stream or Water Body Name<br>N/A | | | |
| 5.3.__ Stream or Water Body Name<br>N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | N/A |

**6.1.B POTW Name and Location Information**

| | |
|---|---|
| 6.1.B.__ POTW Name<br>N/A | 6.1.B.__ POTW Name<br>N/A |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here: [ ] (example: 1, 2, 3, etc.)

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

(IMPORTANT Type or print; read instructions before completing form)

Form Approved OMB Number: 2070 0093
Approval Expires: 11/92



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# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA Use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

## PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR: 19 91

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms)
[X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

SECTION 4. FACILITY IDENTIFICATION

4.1
Facility or Establishment Name: Trico Industries, Inc.
TRI Facility ID Number: 13-90-04573470
Street Address: 1206 W. 196th St.
City: Torrance
County: Los Angeles
State: CA
Zip Code: 90502
Mailing Address (if different from street address):
City:
State:
Zip Code:

90502TRCND1206W
TRICO INDUSTRIES INC.
1206 W. 196TH ST.
TORRANCE, CA 90502
Box 435

EPA
United States Environmental Protection Agency

# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2 Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here: ☐ (example: 1, 2, 3, etc.)

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence (enter 3-character code(s)) | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes [ ] No [ ] |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes [ ] No [ ] |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes [ ] No [ ] |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes [ ] No [ ] |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes [ ] No [ ] |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Chemical Category or Generic Name |
| Xylene |

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released * | 18 | 18 | | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 | Quantity recycled on-site | 0 | 0 | | |
| 8.5 | Quantity recycled off-site | 0 | 0 | | |
| 8.6 | Quantity treated on-site | 0 | 0 | | |
| 8.7 | Quantity treated off-site | 0 | 0 | | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | | | N/A | |
| 8.9 | Production ratio or activity index | | | | |

| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | |
|---|---|---|---|---|
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | YES [ ] | NO [X] |
|---|---|---|---|

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on site or off site.

(IMPORTANT: Type or print; read instructions before completing form)

Form Approved OMB Number: 2070-0093
Approval Expires: 11/92



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# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

## PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR: 19 91

### SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

### SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon, V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

### SECTION 4. FACILITY IDENTIFICATION

4.1
Facility or Establishment Name: Trico Industries, Inc.
TRI Facility ID Number: 13-90-04573470-6-CA
Street Address: 1206 W. 196th St.
City: Torrance
County: Los Angeles
State: CA
Zip Code: 90502
Mailing Address (if different from street address):
City:
State:
Zip Code:

PUT LABEL HERE

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | |
|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [x] An entire facility | b. [ ] Part of a facility |
| 4.3 | Technical Contact | Name: Jim Dunavant | Telephone Number (include area code): (231) 586-8941 |
| 4.4 | Public Contact | Name: Terry Hall | Telephone Number (include area code): (213) 586-8840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05-486-4145 |
| | | b. |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAD000014472 |
| | | b. |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A |
| | | b. |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A |
| | | b. |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 834 1267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical, Category, or Generic Name |
| Tolune |

### SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you complete Section 2 below.)

| | |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 108-88-3 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Toluene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | — |

### SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you complete Section 1 above.)

| | |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

### SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

| | | | If produce or import: |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. [ ] Produce<br>b. [ ] Import | c. [ ] For on-site use/processing<br>d. [ ] For sale/distribution<br>e. [ ] As a byproduct<br>f. [ ] As an impurity |
| 3.2 | Process the toxic chemical: | a. [ ] As a reactant<br>b. [ ] As a formulation component | c. [ ] As an article component<br>d. [ ] Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. [ ] As a chemical processing aid<br>b. [x] As a manufacturing aid | c. [ ] Ancillary or other use |

### SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

| | | |
|---|---|---|
| 4.1 | 03 | (Enter two-digit code from instruction package.) |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-0453470-6-CA

Toxic Chemical Category or Generic Name: Tolulen

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 27,560 | E | |
| 5.2 | Stack or point air emissions | ☒ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.3.2 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.3.3 | Stream or Water Body Name | | | | |
| | N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.



Range Codes A = 1 - 10 pounds B = 11 - 499 pounds C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13 -90-04573470-6-CA

Chemical Category or Generic Name: Toluene

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released* | 27,560 | 27,000 | | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 | Quantity recycled on-site | 0 | 0 | | |
| 8.5 | Quantity recycled off-site | 0 | 0 | | |
| 8.6 | Quantity treated on-site | 0 | 0 | | |
| 8.7 | Quantity treated off-site | 0 | 0 | | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | N/A | | | |
| 8.9 | Production ratio or activity index | | | | |

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
|---|---|---|---|---|
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| | | YES | NO |
|---|---|---|---|
| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | | X |

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Toluene

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence [enter 3-character code(s)] | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes No |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes No |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes No |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes No |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes No |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here: [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2.__ Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)



Range Codes A = 1 - 10 pounds, B = 11 - 499 pounds, C = 500 - 999 pounds

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | |
|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | b. [ ] Part of a facility |
| 4.3 | Technical Contact | Name: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 4.4 | Public Contact | Name: Terry Hall | Telephone Number (include area code): (213) 586-8840 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05 486 4145 |
| | | b. |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAL 0000 14472 |
| | | b. |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A |
| | | b. |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A |
| | | b. |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR, Inc. |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 8341267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

| TRI FACILITY ID NUMBER |
|---|
| 13-90-0453470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

| SECTION 1. TOXIC CHEMICAL IDENTITY | (Important: DO NOT complete this section if you complete Section 2 below.) |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 1330-20-7 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Xylene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | |

| SECTION 2. MIXTURE COMPONENT IDENTITY | (Important: DO NOT complete this section if you complete Section 1 above.) |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

**SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY**
(Important: Check all that apply.)

| | | | |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. ☐ Produce<br>b. ☐ Import | If produce or import:<br>c. ☐ For on-site use/processing<br>d. ☐ For sale/distribution<br>e. ☐ As a byproduct<br>f. ☐ As an impurity |
| 3.2 | Process the toxic chemical: | a. ☐ As a reactant<br>b. ☐ As a formulation component | c. ☐ As an article component<br>d. ☐ Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. ☐ As a chemical processing aid<br>b ☐ As a manufacturing aid | c. ☒ Ancillary or other use |

**SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

| | | |
|---|---|---|
| 4.1 | 02 (Enter two-digit code from instruction package.) | |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Xylene

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 18 | C | |
| 5.2 | Stack or point air emissions | ☐ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name: N/A | | | | |
| 5.3.2 | Stream or Water Body Name: N/A | | | | |
| 5.3.3 | Stream or Water Body Name: N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2. Basis of Estimate (enter code) |
|---|---|
| N/A | |

6.1.B POTW Name and Location Information

| | |
|---|---|
| 6.1.B.__ POTW Name | 6.1.B.__ POTW Name |
| N/A | |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]
(example: 1, 2, 3, etc.)

SARA Title III, Section 313

Form R
Production Year 1991

1. Facility: Torrance, Ca

2. What is/are your SIC code(s) 3561

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

Signed

8-27-92
Date

Return to: J. C. Leonard
Environmental Engineer
Bellevue, WA

by September 4, 1992

[ ] Previously submitted Form R for production year 1991

(IMPORTANT Type or print, read instructions before completing form)

Form Approved OMB Number 2070 0093
Approval Expires 11/92



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# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical, Category, or Generic Name: Xylene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See Instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA use only

IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

## PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR: 19 91

### SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
[ ] Yes (Answer question 2.2; Attach substantiation forms) [X] No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: [ ] Sanitized [ ] Unsanitized

### SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

### SECTION 4. FACILITY IDENTIFICATION

4.1

Facility or Establishment Name: Trico Industries, Inc.

TRI Facility ID Number: 13-90-04573470

Street Address: 1206 W. 196th St.

City: Torrance

County: Los Angeles

State: CA

Zip Code: 90502

Mailing Address (if different from street address):

City:

State:

Zip Code:

90502TRCND1206W
TRICO INDUSTRIES INC.
1206 W. 196TH ST.
TORRANCE, CA 90502
Box 435

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 4. FACILITY IDENTIFICATION (Continued)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | | b. [ ] Part of a facility | | | |
| 4.3 | Technical Contact | Name: James H. Dunavant | | | Telephone Number (include area code): (213) 586-8941 | | |
| 4.4 | Public Contact | Name: Terry Hall | | | Telephone Number (include area code): (213) 586-8840 | | |
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05 486 4145 | | | | | |
| | | b. | | | | | |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAL 0000 14472 | | | | | |
| | | b. | | | | | |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A | | | | | |
| | | b. | | | | | |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A | | | | | |
| | | b. | | | | | |

### SECTION 5. PARENT COMPANY INFORMATION

| | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR, Inc. |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 8341267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

| TRI FACILITY ID NUMBER |
|---|
| 13-90-0453470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

| SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you complete Section 2 below.) | |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) |
| | 1330-20-7 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) |
| | Xylene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |
| | |

| SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you complete Section 1 above.) | |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important. Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |
| | |

| SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY (Important: Check all that apply.) | | | |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. ☐ Produce<br>b. ☐ Import | If produce or import:<br>c. ☐ For on-site use/processing<br>d. ☐ For sale/distribution<br>e. ☐ As a byproduct<br>f. ☐ As an impurity |
| 3.2 | Process the toxic chemical: | a. ☐ As a reactant<br>b. ☐ As a formulation component | c. ☐ As an article component<br>d. ☐ Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. ☐ As a chemical processing aid<br>b. ☐ As a manufacturing aid | c. ☒ Ancillary or other use |

| SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR | | |
|---|---|---|
| 4.1 | 02 (Enter two-digit code from instruction package.) | |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Xylene

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 18 | C | |
| 5.2 | Stack or point air emissions | ☐ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name<br>N/A | | | | |
| 5.3.2 | Stream or Water Body Name<br>N/A | | | | |
| 5.3.3 | Stream or Water Body Name<br>N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.

EPA Form 9350-1 (Rev. 5/14/92) - Previous editions are obsolete.

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Toxic Chemical Category, or Generic Name |
| Xylene |

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |
| 5.3.__ | Stream or Water Body Name | | | |
| | N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | |

**6.1.B POTW Name and Location Information**

| | | | |
|---|---|---|---|
| 6.1.B.__ POTW Name | | 6.1.B.__ POTW Name | |
| N/A | | | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip Code | State | Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here. [ ]
(example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Xylene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)

Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Toxic Chemical, Category, or Generic Name |
| Xylene |

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - *Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.*

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence (enter 3-character code(s)) | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 | 7A.1c | 7A.1d | 7A.1e |
| | 3 4 5 6 7 8 | | % | Yes [ ] No [ ] |
| 7A.2a | 7A.2b 1 2 | 7A.2c | 7A.2d | 7A.2e |
| | 3 4 5 6 7 8 | | % | Yes [ ] No [ ] |
| 7A.3a | 7A.3b 1 2 | 7A.3c | 7A.3d | 7A.3e |
| | 3 4 5 6 7 8 | | % | Yes [ ] No [ ] |
| 7A.4a | 7A.4b 1 2 | 7A.4c | 7A.4d | 7A.4e |
| | 3 4 5 6 7 8 | | % | Yes [ ] No [ ] |
| 7A.5a | 7A.5b 1 2 | 7A.5c | 7A.5d | 7A.5e |
| | 3 4 5 6 7 8 | | % | Yes [ ] No [ ] |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Xylene

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[X] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[X] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470 |
| Chemical Category or Generic Name |
| Xylene |

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|---|
| 8.1 | Quantity released * | 18 | 18 | | |
| 8.2 | Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 | Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 | Quantity recycled on-site | 0 | 0 | | |
| 8.5 | Quantity recycled off-site | 0 | 0 | | |
| 8.6 | Quantity treated on-site | 0 | 0 | | |
| 8.7 | Quantity treated off-site | 0 | 0 | | |
| 8.8 | Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | | | N/A | |
| 8.9 | Production ratio or activity index | | | | |

| 8.10 | Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11. | | | |
|---|---|---|---|---|
| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | YES [ ] | NO [X] |
|---|---|---|---|

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

(IMPORTANT: Type or print; read instructions before completing form)

Form Approved OMB Number. 2070-0093
Approval Expires: 11/92



EPA United States Environmental Protection Agency

# FORM R TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

WHERE TO SEND COMPLETED FORMS:
1. EPCRA Reporting Center, P.O. Box 23779, Washington, DC 20026-3779, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision: X

For EPA use only

**IMPORTANT: See instructions to determine when "Not Applicable (NA)" boxes should be checked.**

## PART I. FACILITY IDENTIFICATION INFORMATION

**SECTION 1. REPORTING YEAR**

19 91

**SECTION 2. TRADE SECRET INFORMATION**

2.1 Are you claiming the toxic chemical identified on page 3 trade secret?
☐ Yes (Answer question 2.2; Attach substantiation forms) ☒ No (Do not answer 2.2; Go to Section 3)

2.2 If yes in 2.1, is this copy: ☐ Sanitized ☐ Unsanitized

**SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)**

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: Raymond T. Whalon, V.P. Manufacturing

Signature: Raymond T. Whalon

Date Signed: 8-3-92

**SECTION 4. FACILITY IDENTIFICATION**

4.1
Facility or Establishment Name: Trico Industries, Inc.
TRI Facility ID Number: 13-90-04573470-6-CA
Street Address: 1206 W. 196th St.
City: Torrance
County: Los Angeles
State: CA
Zip Code: 90502
Mailing Address (if different from street address):
City:
State:
Zip Code:

PUT LABEL HERE

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# EPA FORM R

## PART I. FACILITY IDENTIFICATION INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Toluene

| SECTION 4. FACILITY IDENTIFICATION (Continued) | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.2 | This report contains information for: (Important: check only one) | a. [X] An entire facility | | b. [ ] Part of a facility | | | |
| 4.3 | Technical Contact | Name: Jim Dunavant | | | Telephone Number (include area code): (231) 586-8941 | | |
| 4.4 | Public Contact | Name: Terry Hall | | | Telephone Number (include area code): (213) 586-8840 | | |
| 4.5 | SIC Code (4-digit) | a. 3561 | b. | c. | d. | e. | f. |
| 4.6 | Latitude and Longitude | Latitude | | | Longitude | | |
| | | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | | 33 | 51 | 10 | 118 | 17 | 45 |
| 4.7 | Dun & Bradstreet Number(s) (9 digits) | a. 05-486-4145 | | | | | |
| | | b. | | | | | |
| 4.8 | EPA Identification Number(s) (RCRA I.D. No.) (12 characters) | a. CAD000014472 | | | | | |
| | | b. | | | | | |
| 4.9 | Facility NPDES Permit Number(s) (9 characters) | a. N/A | | | | | |
| | | b. | | | | | |
| 4.10 | Underground Injection Well Code (UIC) I.D. Number(s) (12 digits) | a. N/A | | | | | |
| | | b. | | | | | |

| SECTION 5. PARENT COMPANY INFORMATION | | |
|---|---|---|
| 5.1 | Name of Parent Company | [ ] NA PACCAR |
| 5.2 | Parent Company's Dun & Bradstreet Number | [ ] NA (9 digits) 04 834 1267 |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category, or Generic Name: Tolune

### SECTION 1. TOXIC CHEMICAL IDENTITY

(Important: DO NOT complete this section if you complete Section 2 below.)

| | |
|---|---|
| 1.1 | CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) 108-88-3 |
| 1.2 | Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Toluene |
| 1.3 | Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "yes." Generic Name must be structurally descriptive.) |

### SECTION 2. MIXTURE COMPONENT IDENTITY

(Important: DO NOT complete this section if you complete Section 1 above.)

| | |
|---|---|
| 2.1 | Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.) |

### SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

| | | | |
|---|---|---|---|
| 3.1 | Manufacture the toxic chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>d. [ ] For sale/distribution<br>e. [ ] As a byproduct<br>f. [ ] As an impurity |
| 3.2 | Process the toxic chemical: | a. [ ] As a reactant<br>b. [ ] As a formulation component | c. [ ] As an article component<br>d. [ ] Repackaging |
| 3.3 | Otherwise use the toxic chemical: | a. [ ] As a chemical processing aid<br>b. [X] As a manufacturing aid | c. [ ] Ancillary or other use |

### SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

| | | |
|---|---|---|
| 4.1 | 03 | (Enter two-digit code from instruction package.) |

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-0453470-6-CA

Toxic Chemical, Category, or Generic Name: Tolulen

### SECTION 5. RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| | | | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 | Fugitive or non-point air emissions | ☐ NA | 27,560 | E | |
| 5.2 | Stack or point air emissions | ☒ NA | | | |
| 5.3 | Discharges to receiving streams or water bodies (enter one name per box) | | | | |
| 5.3.1 | Stream or Water Body Name: N/A | | | | |
| 5.3.2 | Stream or Water Body Name: N/A | | | | |
| 5.3.3 | Stream or Water Body Name: N/A | | | | |
| 5.4 | Underground injections on-site | ☒ NA | | | |
| 5.5 | Releases to land on-site | | | | |
| 5.5.1 | Landfill | ☒ NA | | | |
| 5.5.2 | Land treatment/ application farming | ☒ NA | | | |
| 5.5.3 | Surface impoundment | ☒ NA | | | |
| 5.5.4 | Other disposal | ☒ NA | | | |

☐ Check here only if additional Section 5.3 information is provided on page 5 of this form.



Range Codes A = 1 - 10 pounds B = 11 - 499 pounds, C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: L3 -90-04573470-6-CA

Chemical Category or Generic Name: Toluene

### SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

| *All quantity estimates can be reported using up to two significant figures.* | Column A 1990 (pounds/year) | Column B 1991 (pounds/year) | Column C 1992 (pounds/year) | Column D 1993 (pounds/year) |
|---|---|---|---|---|
| 8.1 Quantity released * | 27,560 | 27,000 | | |
| 8.2 Quantity used for energy recovery on-site | 0 | 0 | | |
| 8.3 Quantity used for energy recovery off-site | 0 | 0 | | |
| 8.4 Quantity recycled on-site | 0 | 0 | | |
| 8.5 Quantity recycled off-site | 0 | 0 | | |
| 8.6 Quantity treated on-site | 0 | 0 | | |
| 8.7 Quantity treated off-site | 0 | 0 | | |
| 8.8 Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year) | N/A | | | |
| 8.9 Production ratio or activity index | | | | |

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

| | Source Reduction Activities [enter code(s)] | Methods to Identify Activity (enter codes) | | |
|---|---|---|---|---|
| 8.10.1 | N/A | a. | b. | c. |
| 8.10.2 | N/A | a. | b. | c. |
| 8.10.3 | N/A | a. | b. | c. |
| 8.10.4 | N/A | a. | b. | c. |

| | | YES | NO |
|---|---|---|---|
| 8.11 | Is additional optional information on source reduction, recycling, or pollution control activities included with this report? (Check one box) | | X |

* Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated on-site or off-site.

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

| TRI FACILITY ID NUMBER |
|---|
| 13-90-04573470-6-CA |
| Toxic Chemical Category or Generic Name |
| Toluene |

### SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

[x] Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ]

### SECTION 7C. ON-SITE RECYCLING PROCESSES

[x] Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1 [ ] 2 [ ] 3 [ ] 4 [ ] 5 [ ]

6 [ ] 7 [ ] 8 [ ] 9 [ ] 10 [ ]

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Toluene

### SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

| a. General Waste Stream (enter code) | b. Waste Treatment Method(s) Sequence (enter 3-character code(s)) | c. Range of Influent Concentration | d. Waste Treatment Efficiency Estimate | e. Based on Operating Data? |
|---|---|---|---|---|
| 7A.1a | 7A.1b 1 2 3 4 5 6 7 8 | 7A.1c | 7A.1d % | 7A.1e Yes No |
| 7A.2a | 7A.2b 1 2 3 4 5 6 7 8 | 7A.2c | 7A.2d % | 7A.2e Yes No |
| 7A.3a | 7A.3b 1 2 3 4 5 6 7 8 | 7A.3c | 7A.3d % | 7A.3e Yes No |
| 7A.4a | 7A.4b 1 2 3 4 5 6 7 8 | 7A.4c | 7A.4d % | 7A.4e Yes No |
| 7A.5a | 7A.5b 1 2 3 4 5 6 7 8 | 7A.5c | 7A.5d % | 7A.5e Yes No |

If additional copies of page 7 are attached, indicate the total number of pages in this box [ ] and indicate which page 7 this is, here. [ ] (example: 1, 2, 3, etc.)

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical, Category, or Generic Name: Toluene

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

### SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. Off-site EPA Identification Number (RCRA ID No.): N/A

Off-Site Location Name:

Street Address:

City: County:

State: Zip Code: Is location under control of reporting facility or parent company? ☐ Yes ☐ No

| A. Total Transfers (pounds/year) (enter range code or estimate) | B. Basis of Estimate (enter code) | C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code) |
|---|---|---|
| 1. N/A | 1. | 1. M |
| 2. | 2. | 2. M |
| 3. | 3. | 3. M |
| 4. | 4. | 4. M |

If additional pages of Part II, Section 6.2 are attached, indicate the total number of pages in this box ☐ and indicate which Part II, Section 6.2 page this is, here. ☐ (example: 1, 2, 3, etc.)

Range Codes A = 1 - 10 pounds, B = 11 - 499 pounds, C = 500 - 999 pounds

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# EPA FORM R

## PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI FACILITY ID NUMBER: 13-90-04573470-6-CA

Toxic Chemical Category or Generic Name: Toluene

### SECTION 5.3 ADDITIONAL INFORMATION ON RELEASES OF THE TOXIC CHEMICAL TO THE ENVIRONMENT ON-SITE

| 5.3 Discharges to receiving streams or water bodies (enter one name per box) | A. Total Release (pounds/year) (enter range code from instructions or estimate) | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|
| 5.3.__ Stream or Water Body Name<br>N/A | | | |
| 5.3.__ Stream or Water Body Name<br>N/A | | | |
| 5.3.__ Stream or Water Body Name<br>N/A | | | |

### SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

#### 6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTW)

**6.1.A Total Quantity Transferred to POTWs and Basis of Estimate**

| 6.1.A.1 Total Transfers (pounds/year) (enter range code or estimate) | 6.1.A.2 Basis of Estimate (enter code) |
|---|---|
| N/A | N/A |

**6.1.B POTW Name and Location Information**

| | |
|---|---|
| 6.1.B.__ POTW Name<br>N/A | 6.1.B.__ POTW Name<br>N/A |
| Street Address | Street Address |
| City / County | City / County |
| State / Zip Code | State / Zip Code |

If additional pages of Part II, Sections 5.3 and/or 6.1 are attached, indicate the total number of pages in this box [ ] and indicate which Part II, Sections 5.3/6.1 page this is, here: [ ] (example: 1, 2, 3, etc.)



Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

SARA Title III, Section 313

Form R
Production Year 1990

1. Facility: Trico Industries - Torrance

2. What is/are your SIC code(s) 3533

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

James H. Durant
Signed

7-24-91
Date

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

by July 19, 1991

Approval Expires 01/91

*(Important: Type or print; read instructions before completing form.)*



**EPA** U.S. Environmental Protection Agency

# TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

**PART I. FACILITY IDENTIFICATION INFORMATION**

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C. 20503

| | | | |
|---|---|---|---|
| 1. | 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2, Go to question 1.3.) | 1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized | 1.3 Reporting Year 1990 |

**2. CERTIFICATION** (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:

Signature: | Date signed:

**3. FACILITY IDENTIFICATION**

| | | |
|---|---|---|
| 3.1 | Facility or Establishment Name: TRICO INDUSTRIES, INC. | |
| | Street Address: 1206 W. 196th Street | |
| | City: Torrance | County: Los Angeles |
| | State: California | Zip Code: 90502 |
| 3.2 | This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility. | |
| 3.3 | Technical Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.4 | Public Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.5 | SIC Code (4 digit): a. 3561 b. c. d. e. f. | |

| | Latitude | | | Longitude | | |
|---|---|---|---|---|---|---|
| 3.6 | Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| | 33 | 51 | 10 | 118 | 17 | 45 |

| | | |
|---|---|---|
| 3.7 | Dun & Bradstreet Number(s): a. 05 486 4145 | b. N/A |
| 3.8 | EPA Identification Number(s) (RCRA I.D. No.): a. HG HQ 36-018986 | b. N/A |
| 3.9 | NPDES Permit Number(s): a. N/A | b. |
| 3.10 | Receiving Streams or Water Bodies (enter one name per box): a. N/A | b. N/A |
| | c. | d. |
| | e. | f. |
| 3.11 | Underground Injection Well Code (UIC) Identification Number(s): a. N/A | b. |

**WHERE TO SEND COMPLETED FORMS:**

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

**4. PARENT COMPANY INFORMATION**

| | |
|---|---|
| 4.1 | Name of Parent Company: PACCAR |
| 4.2 | Parent Company's Dun & Bradstreet Number: 04 834 1267 |

*(Important: Type or print, read instructions before completing form )*



EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use )

**1. PUBLICLY OWNED TREATMENT WORKS (POTWs)**

| 1.1 POTW name | | 1.2 POTW name | |
|---|---|---|---|
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |

**2. OTHER OFF-SITE LOCATIONS** (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE)

| 2.1 Off-site location name | | 2.2 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No ) | | EPA Identification Number (RCRA ID No ) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.3 Off-site location name | | 2.4 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID. No ) | | EPA Identification Number (RCRA ID No ) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |
| **2.5 Off-site location name** | | **2.6 Off-site location name** | |
| EPA Identification Number (RCRA ID No ) | | EPA Identification Number (RCRA ID No ) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |
| [ ] Check if additional pages of Part II are attached How many? _____ | | | |



PACCAR 01536

EPA

# EPA FORM R
## PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list Enter NA if reporting a chemical category ) 108-88-3 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list ) Toluene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes " Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1 )

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers, letters, spaces punctuation) )

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply )

| | | | | | |
|---|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce | b [ ] Import | If produce or import: c. [ ] For on-site use/processing | d. [ ] For sale/distribution |
| | | | | e. [ ] As a byproduct | f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant | d [ ] Repackaging only | b. [ ] As a formulation component | c. [ ] As an article component |
| 3.3 | Otherwise use the chemical: | a [ ] As a chemical processing aid | | b. [ ] As a manufacturing aid | c. [X] Ancillary or other use |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[0|4] (enter code)

**5 RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A 1 and A.2)

| | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 | 1-499 | 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] | [ ] | [ ] | 27,560 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] | [ ] | [ ] | | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3 10 for stream(s) in the box provided ) 5.3.1 [ ] | 5.3.1a | [ ] | [ ] | [ ] | | 5.3 1b [ ] | 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] | [ ] | [ ] | | 5.3.2b [ ] | 5 3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] | [ ] | [ ] | | 5.3.3b [ ] | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] | [ ] | [ ] | | 5.4b [ ] | |
| 5.5 Releases to land: 5.5 1 On-site landfill | 5.5.1a | [ ] | [ ] | [ ] | | 5.5.1b [ ] | |
| 5.5 2 Land treatment/application farming | 5.5.2a | [ ] | [ ] | [ ] | | 5.5.2b [ ] | |
| 5 5.3 Surface impoundment | 5.5.3a | [ ] | [ ] | [ ] | | 5.5.3b [ ] | |
| 5 5 4 Other disposal | 5.5.4a | [ ] | [ ] | [ ] | | 5.5 4b [ ] | |

[X] (Check if additional information is provided on Part IV-Supplemental Information )

*(Important. Type or print, read instructions before completing form.)*



EPA

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PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category ) 1330-20-7 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list ) Xylene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers, letters, spaces, punctuation) )

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply )

| | | | | |
|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>e. [ ] As a byproduct | d. [ ] For sale/distribution<br>f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant<br>d [ ] Repackaging only | b. [ ] As a formulation component | c. [ ] As an article component |
| 3.3 | Otherwise use the chemical: | a [ ] As a chemical processing aid | b. [ ] As a manufacturing aid | c. [X] Ancillary or other use |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[ ][ ] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 18 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided ) 5.3.1 [ ] | 5.3.1a | [ ] [ ] [ ] | | 5.3.1b [ ] | 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] [ ] [ ] | | 5.3.2b [ ] | 5.3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] [ ] [ ] | | 5.3.3b [ ] | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] [ ] [ ] | | 5.4b [ ] | |
| 5.5 Releases to land | | | | | |
| 5.5.1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | | 5.5.1b [ ] | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | | 5.5.2b [ ] | |
| 5.5.3 Surface impoundment | 5.5.3a | [ ] [ ] [ ] | | 5.5.3b [ ] | |
| 5.5.4 Other disposal | 5.5.4a | [ ] [ ] [ ] | | 5.5.4b [ ] | |

[ ] (Check if additional information is provided on Part IV-Supplemental Information )



PACCAR 01538

*(Important: Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|---|---|---|---|---|
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1) 1 | [ ] [ ] [ ] | | 6.1.1b | |
| 6.2.1 Other off-site location (enter location number from Part II, Section 2) 2 | [ ] [ ] [ ] | | 6.2.1b | 6.2.1c M |
| 6.2.2 Other off-site location (enter location number from Part II, Section 2) 2 | [ ] [ ] [ ] | | 6.2.2b | 6.2.2c M |
| 6.2.3 Other off-site location (enter location number from Part II, Section 2) 2 | [ ] [ ] [ ] | | 6.2.3b | 6.2.3c M |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.1a | 7.1b | 7.1c | 7.1d [ ] | 7.1e % | 7.1f [ ] [ ] |
| 7.2a | 7.2b | 7.2c | 7.2d [ ] | 7.2e % | 7.2f [ ] [ ] |
| 7.3a | 7.3b | 7.3c | 7.3d [ ] | 7.3e % | 7.3f [ ] [ ] |
| 7.4a | 7.4b | 7.4c | 7.4d [ ] | 7.4e % | 7.4f [ ] [ ] |
| 7.5a | 7.5b | 7.5c | 7.5d [ ] | 7.5e % | 7.5f [ ] [ ] |
| 7.6a | 7.6b | 7.6c | 7.6d [ ] | 7.6e % | 7.6f [ ] [ ] |
| 7.7a | 7.7b | 7.7c | 7.7d [ ] | 7.7e % | 7.7f [ ] [ ] |
| 7.8a | 7.8b | 7.8c | 7.8d [ ] | 7.8e % | 7.8f [ ] [ ] |
| 7.9a | 7.9b | 7.9c | 7.9d [ ] | 7.9e % | 7.9f [ ] [ ] |
| 7.10a | 7.10b | 7.10c | 7.10d [ ] | 7.10e % | 7.10f [ ] [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr) | Prior year (lbs/yr) | Or percent change | C. Index | D. Reason for Action (enter code) |
|---|---|---|---|---|---|
| M | | | % | . | R |

*(Important: Type or print; read instructions before completing form.)*



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## PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

### ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C.% From Stormwater |
|---|---|---|---|---|---|
| 5.3 Discharges to receiving streams or water bodies | 5.3.___ ☐ / 5.3.___a | [ ] [ ] [ ] | | 5.3 ___b ☐ | 5.3.___c |
| (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.___ ☐ / 5.3.___a | [ ] [ ] [ ] | | 5.3.___b ☐ | 5.3.___c |
| | 5.3 ___ ☐ / 5.3 ___a | [ ] [ ] [ ] | | 5.3.___b ☐ | 5.3 ___c |

### ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C. Type of Treatment/ Disposal (enter code in box provided) |
|---|---|---|---|---|
| 6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 . ☐ | [ ] [ ] [ ] | | 6.1.___b ☐ | |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . ☐ | [ ] [ ] [ ] | | 6.2.___b ☐ | 6.2.___c M ☐☐ |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . ☐ | [ ] [ ] [ ] | | 6.2.___b ☐ | 6.2.___c M ☐☐ |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . ☐ | [ ] [ ] [ ] | | 6.2.___b ☐ | 6.2.___c M ☐☐ |

### ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code in box provided) | B. Treatment Method (enter code in box provided) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a ☐ | 7.___b ☐☐☐ | 7.___c ☐ | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |

SARA Title III, Section 313

Form R
Production Year 1990

1. Facility: Trico Industries - Torrance

2. What is/are your SIC code(s) 3533

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

James H. Dunavant
Signed

7-24-91
Date

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

by July 19, 1991

Approval Expires 01/91

(Important: Type or print, read instructions before completing form.)



EPA U S Environmental Protection Agency

# TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Chief Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D C 20460 Attn TRI Burden and to the Office of Information and Regulatory Affairs Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D C 20603

| | | | |
|---|---|---|---|
| 1. | 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2, Go to question 1.3.) | 1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized | 1.3 Reporting Year 1990 |

2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

Signature | Date signed

## 3 FACILITY IDENTIFICATION

| | | |
|---|---|---|
| 3.1 | Facility or Establishment Name: TRICO INDUSTRIES, INC. | |
| | Street Address: 1206 W. 196th Street | |
| | City: Torrance | County: Los Angeles |
| | State: California | Zip Code: 90502 |
| 3.2 | This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility | |
| 3.3 | Technical Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.4 | Public Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.5 | SIC Code (4 digit) a. 3561 b. c. d. e. f. | |
| 3.6 | Latitude: Degrees 33, Minutes 51, Seconds 10 | Longitude: Degrees 118, Minutes 17, Seconds 45 |
| 3.7 | Dun & Bradstreet Number(s) a. 05 486 4145 | b. N/A |
| 3.8 | EPA Identification Number(s) (RCRA I.D. No.) a. HG HQ 36-018986 | b. N/A |
| 3.9 | NPDES Permit Number(s) a. N/A | b. |
| 3.10 | Receiving Streams or Water Bodies (enter one name per box) a. N/A | b. N/A |
| | c. | d. |
| | e. | f. |
| 3.11 | Underground Injection Well Code (UIC) Identification Number(s) a. N/A | b. |

WHERE TO SEND COMPLETED FORMS:

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

## 4 PARENT COMPANY INFORMATION

| | |
|---|---|
| 4.1 | Name of Parent Company: PACCAR |
| 4.2 | Parent Company's Dun & Bradstreet Number: 04 834 1267 |

*(Important: Type or print, read instructions before completing form.)*



EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

| 1.1 POTW name | | 1.2 POTW name | |
|---|---|---|---|
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

| 2.1 Off-site location name | | 2.2 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.3 Off-site location name | | 2.4 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |
| **2.5 Off-site location name** | | **2.6 Off-site location name** | |
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |
| [ ] Check if additional pages of Part II are attached. How many? _____ | | | |

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list Enter NA if reporting a chemical category ) 108-88-3 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.) Toluene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes " Generic name must be structurally descriptive ) |

2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1 )

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers letters, spaces punctuation) )

3 ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply )

| | | | | |
|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce<br>b [ ] Import | If produce or import.<br>c. [ ] For on-site use/processing<br>e. [ ] As a byproduct | d. [ ] For sale/distribution<br>f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant<br>d. [ ] Repackaging only | b. [ ] As a formulation component | c. [ ] As an article component |
| 3.3 | Otherwise use the chemical: | a. [ ] As a chemical processing aid | b [ ] As a manufacturing aid | c. [X] Ancillary or other use |

4 MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[0 4] (enter code)

5 RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 27,560 | 5.1b [E] | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3 10 for stream(s) in the box provided ) 5.3.1 [ ] | 5.3.1a | [ ] [ ] [ ] | | 5.3.1b [ ] | C % From Stormwater 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] [ ] [ ] | | 5.3.2b [ ] | 5.3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] [ ] [ ] | | 5.3.3b [ ] | 5.3.3c |
| 5.4 Underground Injection | 5.4a | [ ] [ ] [ ] | | 5.4b [ ] | |
| 5.5 Releases to land<br>5.5.1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | | 5.5.1b [ ] | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | | 5.5.2b [ ] | |
| 5.5.3 Surface impoundment | 5.5.3a | [ ] [ ] [ ] | | 5.5.3b [ ] | |
| 5.5.4 Other disposal | 5.5.4a | [ ] [ ] [ ] | | 5.5.4b [ ] | |

[X] (Check if additional information is provided on Part IV-Supplemental Information )

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2.)

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category.) 1330-20-7 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.) Xylene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply.)

| | | | |
|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>d. [ ] For sale/distribution<br>e. [ ] As a byproduct<br>f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant<br>b. [ ] As a formulation component<br>c. [ ] As an article component<br>d. [ ] Repackaging only | |
| 3.3 | Otherwise use the chemical: | a. [ ] As a chemical processing aid<br>b. [ ] As a manufacturing aid<br>c. [X] Ancillary or other use | |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[ ][ ] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 | 1–499 | 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] | [ ] | [ ] | 18 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] | [ ] | [ ] | | 5.2b | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.1 | 5.3.1a | [ ] | [ ] | [ ] | | 5.3.1b | 5.3.1c |
| 5.3.2 | 5.3.2a | [ ] | [ ] | [ ] | | 5.3.2b | 5.3.2c |
| 5.3.3 | 5.3.3a | [ ] | [ ] | [ ] | | 5.3.3b | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] | [ ] | [ ] | | 5.4b | |
| 5.5 Releases to land: 5.5.1 On-site landfill | 5.5.1a | [ ] | [ ] | [ ] | | 5.5.1b | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] | [ ] | [ ] | | 5.5.2b | |
| 5.5.3 Surface impoundment | 5.5.3a | [ ] | [ ] | [ ] | | 5.5.3b | |
| 5.5.4 Other disposal | 5.5.4a | [ ] | [ ] | [ ] | | 5.5.4b | |

[ ] (Check if additional information is provided on Part IV–Supplemental Information.)

*(Important: Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|---|---|---|---|---|
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1) [1] [ ] | [ ] [ ] [ ] | | 6.1.1b [ ] | |
| 6.2.1 Other off-site location (enter location number from Part II, Section 2.) [2] [ ] | [ ] [ ] [ ] | | 6.2.1b [ ] | 6.2.1c [M] [ ] [ ] |
| 6.2.2 Other off-site location (enter location number from Part II, Section 2) [2] [ ] | [ ] [ ] [ ] | | 6.2.2b [ ] | 6.2.2c [M] [ ] [ ] |
| 6.2.3 Other off-site location (enter location number from Part II, Section 2) [2] [ ] | [ ] [ ] [ ] | | 6.2.3b [ ] | 6.2.3c [M] [ ] [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.1a [ ] | 7.1b [ ][ ][ ] | 7.1c [ ] | 7.1d [ ] | 7.1e % | 7.1f [ ] [ ] |
| 7.2a [ ] | 7.2b [ ][ ][ ] | 7.2c [ ] | 7.2d [ ] | 7.2e % | 7.2f [ ] [ ] |
| 7.3a [ ] | 7.3b [ ][ ][ ] | 7.3c [ ] | 7.3d [ ] | 7.3e % | 7.3f [ ] [ ] |
| 7.4a [ ] | 7.4b [ ][ ][ ] | 7.4c [ ] | 7.4d [ ] | 7.4e % | 7.4f [ ] [ ] |
| 7.5a [ ] | 7.5b [ ][ ][ ] | 7.5c [ ] | 7.5d [ ] | 7.5e % | 7.5f [ ] [ ] |
| 7.6a [ ] | 7.6b [ ][ ][ ] | 7.6c [ ] | 7.6d [ ] | 7.6e % | 7.6f [ ] [ ] |
| 7.7a [ ] | 7.7b [ ][ ][ ] | 7.7c [ ] | 7.7d [ ] | 7.7e % | 7.7f [ ] [ ] |
| 7.8a [ ] | 7.8b [ ][ ][ ] | 7.8c [ ] | 7.8d [ ] | 7.8e % | 7.8f [ ] [ ] |
| 7.9a [ ] | 7.9b [ ][ ][ ] | 7.9c [ ] | 7.9d [ ] | 7.9e % | 7.9f [ ] [ ] |
| 7.10a [ ] | 7.10b [ ][ ][ ] | 7.10c [ ] | 7.10d [ ] | 7.10e % | 7.10f [ ] [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr) | Prior year (lbs/yr) | Or percent change | C. Index | D. Reason for Action (enter code) |
|---|---|---|---|---|---|
| [M] [ ] | _____ | _____ | _____ % | [ ] . [ ] | [R] [ ] |



PACCAR 01546

*(Important: Type or print; read instructions before completing form.)*



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## PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use )

### ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 1-499 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C % From Stormwater |
|---|---|---|---|---|---|---|
| 5.3 Discharges to receiving streams or water bodies | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| (Enter letter code from Part I Section 3.10 for stream(s) in the box provided ) | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |

### ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A.Total Transfers (lbs/yr) A.1 Reporting Ranges 0 1-499 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C. Type of Treatment/ Disposal (enter code in box provided) |
|---|---|---|---|---|
| 6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 . - | [ ] [ ] [ ] | | 6.1.___b | |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2 ) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2 ) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2 ) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |

### ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code in box provided) | B. Treatment Method (enter code in box provided) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes No |
|---|---|---|---|---|---|
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |



PACCAR 01547

SARA Title III, Section 313

Form R
Production Year 1990

1. Facility: Trico Industries - Torrance

2. What is/are your SIC code(s) 3533

3. Is/are your code(s) between 20 - 39?

   [✓] Yes, go to question 4

   [ ] No, sign below and return

4. Did you manufacture or process more than 25,000# of any listed chemical?

   [ ] Yes Go to question 5

   [✓] No Go to question 5

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

   [✓] Yes

   [ ] No

6. If you checked yes to either question 4 or 5, attach a copy of your completed Form R for production year 1990, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

James H. Dunavant
Signed

7-24-91
Date

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

by July 19, 1991

Approval Expires 01/91

*(Important: Type or print, read instructions before completing form.)*



**EPA** U.S. Environmental Protection Agency

# TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460 Attn: TRI Burden and to the Office of Information and Regulatory Affairs Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington D.C. 20503

EPA FORM **R**

## PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use.)

| | | | |
|---|---|---|---|
| 1. | 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.) | 1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized | 1.3 Reporting Year 1990 |

**2. CERTIFICATION** (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:

Signature: | Date signed:

**3. FACILITY IDENTIFICATION**

| | | |
|---|---|---|
| 3.1 | Facility or Establishment Name: TRICO INDUSTRIES, INC. | |
| | Street Address: 1206 W. 196th Street | |
| | City: Torrance | County: Los Angeles |
| | State: California | Zip Code: 90502 |
| 3.2 | This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility. | |
| 3.3 | Technical Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.4 | Public Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.5 | SIC Code (4 digit): a. 3561 b. c. d. e. f. | |
| 3.6 | Latitude: Degrees 33, Minutes 51, Seconds 10 | Longitude: Degrees 118, Minutes 17, Seconds 45 |
| 3.7 | Dun & Bradstreet Number(s): a. 05 486 4145 | b. N/A |
| 3.8 | EPA Identification Number(s) (RCRA I.D. No.): a. HG HQ 36-018986 | b. N/A |
| 3.9 | NPDES Permit Number(s): a. N/A | b. |
| 3.10 | Receiving Streams or Water Bodies (enter one name per box): a. N/A | b. N/A |
| | c. | d. |
| | e. | f. |
| 3.11 | Underground Injection Well Code (UIC) Identification Number(s): a. N/A | b. |

**WHERE TO SEND COMPLETED FORMS:**

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

**4. PARENT COMPANY INFORMATION**

| | |
|---|---|
| 4.1 | Name of Parent Company: PACCAR |
| 4.2 | Parent Company's Dun & Bradstreet Number: 04 834 1267 |

*(Important: Type or print; read instructions before completing form )*



EPA

EPA FORM R

PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use )

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

| 1.1 POTW name | | 1.2 POTW name | |
|---|---|---|---|
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

| 2.1 Off-site location name | | 2.2 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No ) | | EPA Identification Number (RCRA ID No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.3 Off-site location name | | 2.4 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID No ) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.5 Off-site location name | | 2.6 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID. No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

[ ] Check if additional pages of Part II are attached How many? _____

*(Important Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list Enter NA if reporting a chemical category.) 108-88-3 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.) Toluene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1 1 is checked "Yes " Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1 )

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers, letters, spaces punctuation) )

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply )

| | | | | | |
|---|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>e. [ ] As a byproduct | d. [ ] For sale/distribution<br>f. [ ] As an impurity | |
| 3.2 | Process the chemical: | a. [ ] As a reactant<br>d. [ ] Repackaging only | b. [ ] As a formulation component | c. [ ] As an article component | |
| 3.3 | Otherwise use the chemical: | a. [ ] As a chemical processing aid | b. [ ] As a manufacturing aid | c. [X] Ancillary or other use | |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[0 4] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 27,560 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | | 5.2b | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided ) 5.3.1 | 5.3.1a | [ ] [ ] [ ] | | 5.3.1b | C % From Stormwater 5.3.1c |
| 5.3.2 | 5.3.2a | [ ] [ ] [ ] | | 5.3.2b | 5.3.2c |
| 5.3.3 | 5.3.3a | [ ] [ ] [ ] | | 5.3.3b | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] [ ] [ ] | | 5.4b | |
| 5.5 Releases to land<br>5.5.1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | | 5.5.1b | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | | 5.5.2b | |
| 5.5.3 Surface impoundment | 5.5.3a | [ ] [ ] [ ] | | 5.5.3b | |
| 5.5.4 Other disposal | 5.5.4a | [ ] [ ] [ ] | | 5.5.4b | |

[X] (Check if additional information is provided on Part IV-Supplemental Information.)

*(Important: Type or print, read instructions before completing form )*



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PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use.)

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2.)

| | |
|---|---|
| 1.1 | (Reserved) |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list Enter NA if reporting a chemical category ) 1330-20-7 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list ) Xylene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g , numbers, letters, spaces, punctuation) )

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply )

| | | | | |
|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce | *If produce or import:* c. [ ] For on-site use/processing | d. [ ] For sale/distribution |
| | | b. [ ] Import | e. [ ] As a byproduct | f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant | b. [ ] As a formulation component | c. [ ] As an article component |
| | | d. [ ] Repackaging only | | |
| 3.3 | Otherwise use the chemical: | a. [ ] As a chemical processing aid | b. [ ] As a manufacturing aid | c. [X] Ancillary or other use |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[ ][ ] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 18 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) 5.3.1 [ ] | 5.3.1a | [ ] [ ] [ ] | | 5.3.1b [ ] | 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] [ ] [ ] | | 5.3.2b [ ] | 5.3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] [ ] [ ] | | 5.3.3b [ ] | 5.3 3c |
| 5.4 Underground injection | 5.4a | [ ] [ ] [ ] | | 5.4b [ ] | |
| 5.5 Releases to land: 5.5.1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | | 5.5.1b [ ] | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | | 5.5.2b [ ] | |
| 5 5.3 Surface impoundment | 5 5.3a | [ ] [ ] [ ] | | 5.5.3b [ ] | |
| 5.5 4 Other disposal | 5.5.4a | [ ] [ ] [ ] | | 5.5.4b [ ] | |

[ ] (Check if additional information is provided on Part IV-Supplemental Information )

*(Important: Type or print; read instructions before completing form.)*



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PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use )

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|---|---|---|---|---|
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1 [ ] | [ ] [ ] [ ] | | 6.1.1b [ ] | |
| 6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 . [ ] | [ ] [ ] [ ] | | 6.2.1b [ ] | 6.2.1c M [ ] [ ] |
| 6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 . [ ] | [ ] [ ] [ ] | | 6.2.2b [ ] | 6.2.2c M [ ] [ ] |
| 6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 . [ ] | [ ] [ ] [ ] | | 6.2.3b [ ] | 6.2.3c M [ ] [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental information.)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes | No |
|---|---|---|---|---|---|---|
| 7.1a [ ] | 7.1b [ ][ ][ ] | 7.1c [ ] | 7.1d [ ] | 7.1e % | 7.1f [ ] | [ ] |
| 7.2a [ ] | 7.2b [ ][ ][ ] | 7.2c [ ] | 7.2d [ ] | 7.2e % | 7.2f [ ] | [ ] |
| 7.3a [ ] | 7.3b [ ][ ][ ] | 7.3c [ ] | 7.3d [ ] | 7.3e % | 7.3f [ ] | [ ] |
| 7.4a [ ] | 7.4b [ ][ ][ ] | 7.4c [ ] | 7.4d [ ] | 7.4e % | 7.4f [ ] | [ ] |
| 7.5a [ ] | 7.5b [ ][ ][ ] | 7.5c [ ] | 7.5d [ ] | 7.5e % | 7.5f [ ] | [ ] |
| 7.6a [ ] | 7.6b [ ][ ][ ] | 7.6c [ ] | 7.6d [ ] | 7.6e % | 7.6f [ ] | [ ] |
| 7.7a [ ] | 7.7b [ ][ ][ ] | 7.7c [ ] | 7.7d [ ] | 7.7e % | 7.7f [ ] | [ ] |
| 7.8a [ ] | 7.8b [ ][ ][ ] | 7.8c [ ] | 7.8d [ ] | 7.8e % | 7.8f [ ] | [ ] |
| 7.9a [ ] | 7.9b [ ][ ][ ] | 7.9c [ ] | 7.9d [ ] | 7.9e % | 7.9f [ ] | [ ] |
| 7.10a [ ] | 7.10b [ ][ ][ ] | 7.10c [ ] | 7.10d [ ] | 7.10e % | 7.10f [ ] | [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental information.)

## 8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr) | Prior year (lbs/yr) | Or percent change | C. Index | D. Reason for Action (enter code) |
|---|---|---|---|---|---|
| M [ ] | _____ | _____ | _____ % | [ ] . [ ] | R [ ] |

*(Important: Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use)

## ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C.% From Stormwater |
|---|---|---|---|---|---|
| 5.3 Discharges to receiving streams or water bodies | 5.3.___ | 5.3.___a [ ] [ ] [ ] | | 5.3.___b | 5.3 ___c |
| (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.___ | 5.3.___a [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| | 5.3.___ | 5.3.___a [ ] [ ] [ ] | | 5.3.___b | 5.3 ___c |

## ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C. Type of Treatment/ Disposal (enter code in box provided) |
|---|---|---|---|---|
| 6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1. | [ ] [ ] [ ] | | 6.1.___b | |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2. | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2. | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2. | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code in box provided) | B. Treatment Method (enter code in box provided) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |



PACCAR 01554

James
Lisa

SARA Title III, Section 313

Form R
Production Year 1989

1. Facility TRICO-TORRANCE-PLANT

2. What is your SIC code(s)? 34

Is it between 20 - 39?

(X) Yes, go to question 3

[] No, sign below and return

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

[] Yes, go to question 4

(X) No, go to question 4

4. Did you manufacture or process more than 25,000# of any listed chemical?

[] Yes, go to question 5

(X) 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 1989, sign below and return. If you checked no to both questions 4 and 5, sign below and return.

Leo P. Cahill
Signed

6-14-90
Date

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

by July 5, 1990

Approval Expires 01/91

(Important Type or print, read instructions before completing form)



EPA U.S. Environmental Protection Agency

# TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch (PM-223), US EPA, 401 M St., SW, Washington, D.C. 20460, Attn: TRI Burden and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (2070-0093), Washington, D.C. 20503

EPA FORM **R**

**PART I. FACILITY IDENTIFICATION INFORMATION**

(This space for your optional use)

| | | | |
|---|---|---|---|
| 1. | 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2, Attach substantiation forms.) [ ] No (Do not answer 1.2, Go to question 1.3.) | 1.2 If "Yes" in 1.1, is this copy [ ] Sanitized [ ] Unsanitized | 1.3 Reporting Year 19 82 |

**2. CERTIFICATION** (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: James H. Dunavant Environmental/Manufacturing Engineer

Signature: James H. Dunavant — Date signed: 3-6-91

**3. FACILITY IDENTIFICATION**

| | | |
|---|---|---|
| 3.1 | Facility or Establishment Name: TRICO INDUSTRIES, INC. | |
| | Street Address: 1206 W. 196th Street | |
| | City: Torrance | County: Los Angeles |
| | State: California | Zip Code: 90502 |
| 3.2 | This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility | |
| 3.3 | Technical Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.4 | Public Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.5 | SIC Code (4 digit): a. 3561 b. c. d. e. f. | |
| 3.6 | Latitude: Degrees 33, Minutes 51, Seconds 10 | Longitude: Degrees 118, Minutes 17, Seconds 45 |
| 3.7 | Dun & Bradstreet Number(s): a. 05 486 4145 | b. N/A |
| 3.8 | EPA Identification Number(s) (RCRA I.D. No.): a. ~~HG HQ 36 018986~~ CAX 000014472 | b. N/A |
| 3.9 | NPDES Permit Number(s): a. N/A | b. |
| 3.10 | Receiving Streams or Water Bodies (enter one name per box): a. N/A | b. N/A |
| | c. | d. |
| | e. | f. |
| 3.11 | Underground Injection Well Code (UIC) Identification Number(s): a. N/A | b. |

**WHERE TO SEND COMPLETED FORMS:**

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

**4. PARENT COMPANY INFORMATION**

| | |
|---|---|
| 4.1 | Name of Parent Company: PACCAR |
| 4.2 | Parent Company's Dun & Bradstreet Number: 04 834 1267 |

*(Important: Type or print; read instructions before completing form.)*



EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

| 1.1 POTW name | | 1.2 POTW name | |
|---|---|---|---|
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

| 2.1 Off-site location name | | 2.2 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.3 Off-site location name | | 2.4 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.5 Off-site location name | | 2.6 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID. No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | (Reserved) |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting a chemical category ) 108-88-3 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list ) Toluene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes " Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers, letters, spaces punctuation) )

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply )

| | | | | |
|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a.[ ] Produce<br>b.[ ] Import | If produce or import:<br>c.[ ] For on-site use/processing<br>e.[ ] As a byproduct | d.[ ] For sale/distribution<br>f.[ ] As an impurity |
| 3.2 | Process the chemical: | a.[ ] As a reactant<br>d.[ ] Repackaging only | b.[ ] As a formulation component | c.[ ] As an article component |
| 3.3 | Otherwise use the chemical: | a.[ ] As a chemical processing aid | b.[ ] As a manufacturing aid | c.[X] Ancillary or other use |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[0|4] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 48,843 | 5.1b [E] | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | N.A | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3 10 for stream(s) in the box provided ) 5.3.1 [ ] | 5.3.1a | [ ] [ ] [ ] | N.A | 5.3.1b [ ] | 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] [ ] [ ] | N.A | 5.3.2b [ ] | 5.3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] [ ] [ ] | N.A | 5.3.3b [ ] | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] [ ] [ ] | N.A | 5.4b [ ] | |
| 5.5 Releases to land<br>5.5.1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | N.A | 5.5.1b [ ] | |
| 5.5.2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | N.A | 5.5.2b [ ] | |
| 5.5.3 Surface impoundment | 5.5.3a | [ ] [ ] [ ] | N.A | 5.5.3b [ ] | |
| 5.5.4 Other disposal | 5.5.4a | [ ] [ ] [ ] | N.A | 5.5.4b [ ] | |

[X] (Check if additional information is provided on Part IV-Supplemental Information )

*(Important: Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|---|---|---|---|---|
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1 . | [ ] [ ] [ ] | N.A | 6.1.1b | |
| 6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A | 6.2.1b | 6.2.1c M |
| 6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A | 6.2.2b | 6.2.2c M |
| 6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A | 6.2.3b | 6.2.3c M |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.1a | 7.1b | 7.1c | 7.1d [ ] | 7.1e N.A % | 7.1f [ ] [ ] |
| 7.2a | 7.2b | 7.2c | 7.2d [ ] | 7.2e N.A % | 7.2f [ ] [ ] |
| 7.3a | 7.3b | 7.3c | 7.3d [ ] | 7.3e N.A % | 7.3f [ ] [ ] |
| 7.4a | 7.4b | 7.4c | 7.4d [ ] | 7.4e N.A % | 7.4f [ ] [ ] |
| 7.5a | 7.5b | 7.5c | 7.5d [ ] | 7.5e N.A % | 7.5f [ ] [ ] |
| 7.6a | 7.6b | 7.6c | 7.6d [ ] | 7.6e N.A % | 7.6f [ ] [ ] |
| 7.7a | 7.7b | 7.7c | 7.7d [ ] | 7.7e N.A % | 7.7f [ ] [ ] |
| 7.8a | 7.8b | 7.8c | 7.8d [ ] | 7.8e N.A % | 7.8f [ ] [ ] |
| 7.9a | 7.9b | 7.9c | 7.9d [ ] | 7.9e N.A % | 7.9f [ ] [ ] |
| 7.10a | 7.10b | 7.10c | 7.10d [ ] | 7.10e N.A % | 7.10f [ ] [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr) | Prior year (lbs/yr) | Or percent change | C. Index | D. Reason for Action (enter code) |
|---|---|---|---|---|---|
| M | | | % | . | R |

*(Important: Type or print; read instructions before completing form )*



EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

## ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C.% From Stormwater |
|---|---|---|---|---|---|---|
| 5.3 Discharges to receiving streams or water bodies | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |

## ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C. Type of Treatment/ Disposal (enter code in box provided) |
|---|---|---|---|---|
| 6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) 1 . | [ ] [ ] [ ] | | 6.1.___b | |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code in box provided) | B. Treatment Method (enter code in box provided) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |



PACCAR 01563

Approval Expires 01/91

(Important Type or print, read instructions before completing form)



EPA U S Environmental Protection Agency

# TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

EPA FORM **R**

PART I. FACILITY IDENTIFICATION INFORMATION

(This space for your optional use)

Public reporting burden for this collection of information is estimated to vary from 30 to 34 hours per response with an average of 32 hours per response including time for reviewing instructions searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to Chief, Information Policy Branch (PM-223), US EPA 401 M St. SW, Washington, D C 20460 Attn TRI Burden and to the Office of Information and Regulatory Affairs Office of Management and Budget Paperwork Reduction Project (2070-0093), Washington, D C 20503

| | | | |
|---|---|---|---|
| 1. | 1.1 Are you claiming the chemical identity on page 3 trade secret? [ ] Yes (Answer question 1.2. Attach substantiation forms.) [ ] No (Do not answer 1.2; Go to question 1.3.) | 1.2 If "Yes" in 1.1, is this copy [ ] Sanitized [ ] Unsanitized | 1.3 Reporting Year 19 87 |

**2. CERTIFICATION** (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report

Name and official title of owner/operator or senior management official: James H. Dunavant Environmental/Manufacturing Engineer

Signature: James H. Dunavant — Date signed: 3-6-91

**3. FACILITY IDENTIFICATION**

| | | |
|---|---|---|
| 3.1 | Facility or Establishment Name: TRICO INDUSTRIES, INC. | |
| | Street Address: 1206 W. 196th Street | |
| | City: Torrance | County: Los Angeles |
| | State: California | Zip Code: 90502 |
| 3.2 | This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility | |
| 3.3 | Technical Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.4 | Public Contact: James H. Dunavant | Telephone Number (include area code): (213) 586-8941 |
| 3.5 | SIC Code (4 digit): a. 3561 b. c. d. e. f. | |
| 3.6 | Latitude: Degrees 33, Minutes 51, Seconds 10 | Longitude: Degrees 118, Minutes 17, Seconds 45 |
| 3.7 | Dun & Bradstreet Number(s): a. 05 486 4145 | b. N/A |
| 3.8 | EPA Identification Number(s) (RCRA I D No.): a. ~~HG HQ 36 018986~~ CAX 000 14972 | b. N/A |
| 3.9 | NPDES Permit Number(s): a. N/A | b. |
| 3.10 | Receiving Streams or Water Bodies (enter one name per box): a. N/A | b. N/A |
| | c. | d. |
| | e. | f. |
| 3.11 | Underground Injection Well Code (UIC) Identification Number(s): a. N/A | b. |

**WHERE TO SEND COMPLETED FORMS:**

1. U.S. ENVIRONMENTAL PROTECTION AGENCY
   P.O. BOX 70266
   WASHINGTON, DC 20024-0266
   ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions Appendix E)

**4. PARENT COMPANY INFORMATION**

| | |
|---|---|
| 4.1 | Name of Parent Company: PACCAR |
| 4.2 | Parent Company's Dun & Bradstreet Number: 04 834 1267 |

*(Important: Type or print, read instructions before completing form.)*



EPA

EPA FORM R
PART II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

(This space for your optional use.)

**1. PUBLICLY OWNED TREATMENT WORKS (POTWs)**

| 1.1 POTW name | | 1.2 POTW name | |
|---|---|---|---|
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |

**2. OTHER OFF-SITE LOCATIONS** (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

| 2.1 Off-site location name | | 2.2 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

| 2.3 Off-site location name | | 2.4 Off-site location name | |
|---|---|---|---|
| EPA Identification Number (RCRA ID. No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |
| **2.5 Off-site location name** | | **2.6 Off-site location name** | |
| EPA Identification Number (RCRA ID No.) | | EPA Identification Number (RCRA ID. No.) | |
| Street Address | | Street Address | |
| City | County | City | County |
| State | Zip | State | Zip |
| Is location under control of reporting facility or parent company? [ ] Yes [ ] No | | Is location under control of reporting facility or parent company? [ ] Yes [ ] No | |

[ ] Check if additional pages of Part II are attached. How many? _____

EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION

(This space for your optional use )

**1. CHEMICAL IDENTITY** (Do not complete this section if you complete Section 2 )

| | |
|---|---|
| 1.1 | [Reserved] |
| 1.2 | CAS Number (Enter the number exactly as it appears on the 313 list Enter NA if reporting a chemical category ) 1330-20-7 |
| 1.3 | Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.) Xylene |
| 1.4 | Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes " Generic name must be structurally descriptive ) |

**2. MIXTURE COMPONENT IDENTITY** (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e g , numbers, letters, spaces, punctuation).)

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply.)

| | | | | |
|---|---|---|---|---|
| 3.1 | Manufacture the chemical: | a. [ ] Produce<br>b. [ ] Import | If produce or import:<br>c. [ ] For on-site use/processing<br>e. [ ] As a byproduct | d. [ ] For sale/distribution<br>f. [ ] As an impurity |
| 3.2 | Process the chemical: | a. [ ] As a reactant<br>d. [ ] Repackaging only | b. [ ] As a formulation component | c. [ ] As an article component |
| 3.3 | Otherwise use the chemical: | a. [ ] As a chemical processing aid | b. [ ] As a manufacturing aid | c. [X] Ancillary or other use |

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR**

[ ][ ] (enter code)

**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE**

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A 1 and A.2) | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. % From Stormwater |
|---|---|---|---|---|---|
| 5.1 Fugitive or non-point air emissions | 5.1a | [ ] [ ] [ ] | 29 | 5.1b E | |
| 5.2 Stack or point air emissions | 5.2a | [ ] [ ] [ ] | N.A. | 5.2b [ ] | |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided ) 5.3.1 [ ] | 5.3.1a | [ ] [ ] [ ] | N.A. | 5.3 1b [ ] | 5.3.1c |
| 5.3.2 [ ] | 5.3.2a | [ ] [ ] [ ] | N.A | 5.3.2b [ ] | 5.3.2c |
| 5.3.3 [ ] | 5.3.3a | [ ] [ ] [ ] | N.A | 5.3.3b [ ] | 5.3.3c |
| 5.4 Underground injection | 5.4a | [ ] [ ] [ ] | N.A | 5.4b [ ] | |
| 5.5 Releases to land<br>5.5 1 On-site landfill | 5.5.1a | [ ] [ ] [ ] | N.A | 5.5.1b [ ] | |
| 5 5 2 Land treatment/application farming | 5.5.2a | [ ] [ ] [ ] | N.A | 5.5.2b [ ] | |
| 5 5 3 Surface impoundment | 5 5.3a | [ ] [ ] [ ] | N.A | 5 5.3b [ ] | |
| 5.5 4 Other disposal | 5.5.4a | [ ] [ ] [ ] | N.A | 5.5 4b [ ] | |

[ ] (Check if additional information is provided on Part IV-Supplemental Information )

*(Important Type or print, read instructions before completing form.)*



EPA

EPA FORM R

PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

(This space for your optional use.)

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1-499 / 500-999 | A.2 Enter Estimate | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|---|---|---|---|---|
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1 . | [ ] [ ] [ ] | N.A. | 6.1.1b | |
| 6.2.1 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A. | 6.2.1b | 6.2.1c M |
| 6.2.2 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A. | 6.2.2b | 6.2.2c M |
| 6.2.3 Other off-site location (enter location number from Part II, Section 2.) 2 . | [ ] [ ] [ ] | N.A. | 6.2.3b | 6.2.3c M |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY N.A.

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes | No |
|---|---|---|---|---|---|---|
| 7.1a | 7.1b | 7.1c | 7.1d [ ] | 7.1e % | 7.1f [ ] | [ ] |
| 7.2a | 7.2b | 7.2c | 7.2d [ ] | 7.2e % | 7.2f [ ] | [ ] |
| 7.3a | 7.3b | 7.3c | 7.3d [ ] | 7.3e % | 7.3f [ ] | [ ] |
| 7.4a | 7.4b | 7.4c | 7.4d [ ] | 7.4e % | 7.4f [ ] | [ ] |
| 7.5a | 7.5b | 7.5c | 7.5d [ ] | 7.5e % | 7.5f [ ] | [ ] |
| 7.6a | 7.6b | 7.6c | 7.6d [ ] | 7.6e % | 7.6f [ ] | [ ] |
| 7.7a | 7.7b | 7.7c | 7.7d [ ] | 7.7e % | 7.7f [ ] | [ ] |
| 7.8a | 7.8b | 7.8c | 7.8d [ ] | 7.8e % | 7.8f [ ] | [ ] |
| 7.9a | 7.9b | 7.9c | 7.9d [ ] | 7.9e % | 7.9f [ ] | [ ] |
| 7.10a | 7.10b | 7.10c | 7.10d [ ] | 7.10e % | 7.10f [ ] | [ ] |

[ ] (Check if additional information is provided on Part IV-Supplemental Information.)

## 8. OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal: Current reporting year (lbs/yr) | Prior year (lbs/yr) | Or percent change | C. Index | D. Reason for Action (enter code) |
|---|---|---|---|---|---|
| M | | | % | . | R |

*(Important. Type or print; read instructions before completing form.)*



EPA

EPA FORM R

PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III. Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

(This space for your optional use.)

## ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE (Part III, Section 5.3)

| You may report releases of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | | A. Total Release (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C.% From Stormwater |
|---|---|---|---|---|---|---|
| 5.3 Discharges to receiving streams or water bodies | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |
| | 5.3.___ | 5.3.___a | [ ] [ ] [ ] | | 5.3.___b | 5.3.___c |

## ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS (Part III, Section 6)

| You may report transfers of less than 1,000 lbs. by checking ranges under A.1. (Do not use both A.1 and A.2) | | A. Total Transfers (lbs/yr) A.1 Reporting Ranges 0 / 1–499 / 500–999 | A.2 Enter Estimate | B. Basis of Estimate (enter code in box provided) | C. Type of Treatment/ Disposal (enter code in box provided) |
|---|---|---|---|---|---|
| 6.1.___ Discharge to POTW (enter location number from Part II, Section 1.) | 1 | [ ] [ ] [ ] | | 6.1.___b | |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) | 2 | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) | 2 | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |
| 6.2.___ Other off-site location (enter location number from Part II, Section 2.) | 2 | [ ] [ ] [ ] | | 6.2.___b | 6.2.___c M |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code in box provided) | B. Treatment Method (enter code in box provided) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes / No |
|---|---|---|---|---|---|
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |
| 7.___a | 7.___b | 7.___c | 7.___d [ ] | 7.___e % | 7.___f [ ] [ ] |

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

   (X) No, Go to Question 4

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

   ( ) Yes, Go to Question 5

   (X) 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.

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.

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

# RESPONSE #14

December 29, 2005
5-91M-15268-0

PACCAR Inc.
777 106th Avenue NE
Bellevue, Washington 98009

Attention: Mr. Fred Benz

**Subject:** **Drain Line Survey**
**Former Trico Torrance Industries Facility**
1206 W. 196th Street
Torrance, California

Dear Mr. Benz:

This letter report summarizes the findings of a drain line survey carried out by AMEC Earth and Environmental, Inc. (AMEC) at the former Trico Torrance Industries Facilities at 1206 W 196th Street, located in Torrance, California (Figure 1). The scope of services for this survey was completed in accordance with AMEC Proposal No. 2005 W-0181, under Scope of Work Task 1, dated April 22, 2005. The drain line survey activities are summarized below.

## PURPOSE

The purpose of the drain line survey was to identify drainage lines around what had been reported to be a "former cesspool" and trace them back to determine their source; and identify sanitary sewer and storm water drain lines servicing the property.

## BACKGROUND

The former Trico Torrance Industries Facilities in Torrance (Figure 1), California (hereafter referred to as the Site) is approximately 100,000 square feet in area, located in an industrial area of an unincorporated section of the County of Los Angeles, California. The Site is developed with three buildings A, B, and C and paved with asphalt concrete or concrete slab-on-grade with no exposed soil. Mighty USA, Inc., understood to be PACCAR's tenant, is using Building A for assembly of machine parts, and Buildings B and C for storage of imported patio furniture products. Historically, the adjacent property to the west and the Site (19706 South Normandie Avenue and 1206 W 196th Street, respectively) were formerly owned and occupied by Trico. Trico sold the adjacent property to the west (19706 South Normandie Avenue) to Mighty Enterprises in 1989. American Polystyrene (formerly Amoco Chemical) is located to the north; Mighty Enterprises and a lumberyard are located to the west; Redman Manufacturing (a

AMEC Earth & Environmental, Inc.
11335 NE 122nd Way, Suite 100
Kirkland, Washington
USA 98034
(425) 820-4669 Phone
(425) 821-3914 Facsimile
www.amec.com

heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track are located between the Site and the R.R. Donnelly and Sons facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 200 and 600 feet northwest of the Site, respectively.

It has been reported that two former clarifiers and a single former cesspool had been constructed and used as part of the former manufacturing processes at the site. One of the clarifiers was completely removed in 2004, however both clarifiers had been cleaned and abandoned in-place at some point before 1993. The suspected, former wastewater cesspool was the focus of this survey.

## DATA RESEARCH

AMEC visited several city and county offices to obtain information regarding storm water drain lines, and sewer lines that exist inside and outside the Site property. AMEC visited the following offices for utility location information: the City of Torrance – Building and Safety Office; the City of San Pedro – Building and Safety Office; the City of Los Angeles – Building and Safety Office; the County of Los Angeles which included Los Angeles offices on Temple Street and Spring Street; the Lomita Office; and the Alhambra Public Works Office. AMEC also obtained sewer and storm water drain line drawings from the City of Los Angeles, Navigate LA website. Please see Appendix B for information obtained for these offices and from the Navigate LA website.

AMEC visited the County of Los Angeles, Lomita Office on 07 November 2005 for information regarding permits and plans for the site. AMEC obtained a copy of a permit issued to American Chemsolv Company in the spring of 1957 that indicate there may have been a drywell on the site. On close inspection this drywell permit does not relate to the suspect cesspool but may be related to a structure located near the former clarifier situated between Buildings A and B.

In addition, AMEC staff talked with Mighty staff about the location of site utilities and inspected the cesspool.

## SITE SURVEY

On September 20, 2005, AMEC met with Subsurface Survey and Associates, Inc. (SSAI) at the Site to perform the drain line survey. At the time of the meeting, SSAI decided that the drain line survey could not be performed due to rain and thunderstorms in the area since this would cause interferences with the equipment used to perform the survey and also would create unsafe work conditions. The drain line survey was postponed until September 23, 2005.

On September 23, 2005, AMEC met with SSAI at the Site and commenced the drain line survey. SSAI started at the cesspool and located lines running to and from the cesspool using a metal fish-tape and a utility tracer.

"CESSPOOL" STRUCTURE

The structure referred to as the "cesspool" structure was inspected and was found to have a solid concrete base and body. The structure was also very shallow with the bottom at less than six feet below ground surface. The structure contained a float level switch and a submersible pump mounted about 18 inch below the water line. The pump discharged through an approximately 2 inch diameter line running to the north. Although the base of the structure could not be clearly seen, the structure had a solid concrete body and a steel rod was used to scrape and tap along the base and sides. It was determined that the structures' base and body were solid concrete without holes or bottom permeations.

A visual inspection around the cesspool showed two in-feed lines entering the drainage structure. One line appeared to connect to the roof drain for rainwater but had been cut-off at the ground level. The second line led back into Building A but could not be traced as it appeared to be blocked. The second line may have been a machine cooling water discharge line. Building A was reported to employ various machines that required cooling water. Based on the piping observed inside Building A, most of the machine cooling water was plumbed to discharge through the former clarifier in the southeast corner of the property. The former southeast clarifier then discharged to a surface water drainage channel along the eastern boundary of the site. As stated earlier, the southeast corner clarifier had been cleaned and abandoned in-place at some point before 1993, and then completely removed in 2004 as part of recent site investigations.

A single discharge line was detected leaving the drainage structure (former cesspool) running due north parallel to the eastern side of building A, before making a 90° turn towards the west into Building "A" and then a little further north turning towards the east. The line running towards the east terminated shortly before a surface water drainage channel located along the eastern boundary and the line is likely capped or blocked as there was no outfall observed in the channel.

BUILDING "A" DRAIN LINE AND SANITARY SEWER

SSAI identified the buried portion of the drain line that runs through the center of Building A. The drain line originates at an open drain grate just inside the west end of Building A and runs through the center of Building A to another open drain grate just inside the east end of the building. The line then runs eastwards to the property boundary towards the surface water channel along the eastern property line. However, there was no visual evidence of any outfall from the drain line to the surface water drainage channel.

The bathroom located within Building A has reportedly been out of use for some time and the sewer line going into the bathroom was closed (Mighty employee – Mr. Louis Vargas). The sewer line flows from the bathroom located in ~~of~~ the center of the building and flows due north connecting with the side sewer line running along 196th Street that is connected to the main sewer at the frontage on Normandie Avenue.

SURFACE WATER DRAINAGE CHANNEL

It appears that the discharge line leaving the drainage structure (former cesspool) heading east and the drain line exiting Building A, had discharged at one time to the surface water drainage channel running along the eastern property boundary. The surface water drainage channel starts from the AMOCO property to the north and flows into an unknown drain just after crossing, and south of 197th Street. The water flows from north to south. Reportedly, no water has been observed flowing from the Trico property to the surface drainage channel (Mighty employee - Mr. Louis Vargas). Based on the appearance of the surface drainage channel, lack of an outfall may be due to the channel being rebuilt by others in the past when all unused outfalls were cut off.

W. 196TH STREET SANITARY SEWER

SSAI inspected a sewer manhole located along the northern edge of the property, the sewer lines were confirmed to enter and exit the manhole on a west/east path. A suspected branch of the sewer line was marked on the ground based solely on visible scars on the asphalt, heading on a southeast bearing (due to the depth of the sewer line, SSAI was unable to confirm or refute the suspected branch). Because of the existence of a bathroom in the northeast corner of Building B, the sewer line probably connects to that location and building. According to the County lateral sewer connection plans, the sewer line on the northern edge passes along W 196th St and joins into the Normandie Avenue main sewer line. Two other sewer manholes are found on Normandie Avenue to the north and south of the Mighty office building. The manhole to the south serves as the connection for the sewer from Mighty to the main line. The sewer flow direction is from north to south.

SSAI traversed the areas west of building B and north of building A and found only one anomaly; a circular patch of new concrete located near 2003 boring BL-10 which most likely, represents the recent boring BL-10. Please see Appendix A for SSAI full site survey report and Figure 2 for the location of identified site features of note.

**FINDINGS**

AMEC used previous survey data, data obtained from the offices of the City of Los Angeles and County of Los Angeles, data collected from the City of Los Angeles, Navigate LA website, and from the drain line survey performed by SSAI to locate and map sewer lines and storm water drain lines. Figure 2 shows all of the data gathered during the drain line survey. Appendix A includes SSAI full site survey report. Appendix B includes information obtained from the City of Los Angeles and County of Los Angeles offices and from the Navigate LA website. Appendix C includes AMEC's field notes detailing the events of the data research process and the Site visit with SSAI. Appendix D includes old permit information, sewer plans and Site photos.

As noted, it appears that the "former cesspool" is actually an interceptor drainage structure for rainwater and possibly machine cooling water. The interceptor is complete with a solid concrete vessel body, an integral pump operating float switch, a 2 inch diameter submersible pump, and an abandoned discharge line pumping to a surface water drainage channel along the eastern

property boundary. One observed in-feed line appears to be from the roof drain whilst another in-feed line enters from Building A. Building A was inspected to determine where the line may have led from but no obvious location was observed, although it is suspected that a potential machine cooling water discharge may have existed.

The discharge line coming out of the interceptor drainage structure pumps water towards the surface water drainage channel outside the property boundary and a branch on the discharge line either entered or exited from Building A. The signal died out when traced into Building A and near the water valve box potentially due to a blockage or capping.

The sewer lines on the northern boundary were traced on an east/west path to enter and exit a manhole at the northern end of the site but could not be followed due to the depth of the sewer line which was beyond the GPR detection range. The sewer lines goes along W196th St. and connects to the main sewer line on Normandie Avenue. Connected along the W 196th St. branch line is the site side sewer connecting to Building A bathroom and it is suspected that the branch line also has a "Y" at the end of the W. 196th St. line connecting to Building B's former bathroom.

In conclusion from the research at local city offices, county office and drain line survey, it would appear that there the "cesspool" was misnamed and that the drainage structure in question was used as an interceptor for rainwater collection and possibly machine cooling water. The interceptor drainage structure is no longer in use.

If you have any questions regarding this report, please feel free to call the undersigned at (714) 779-2591.

Respectfully,

**AMEC Earth & Environmental, Inc.**

Lloyd Tangunan
Environmental Technician

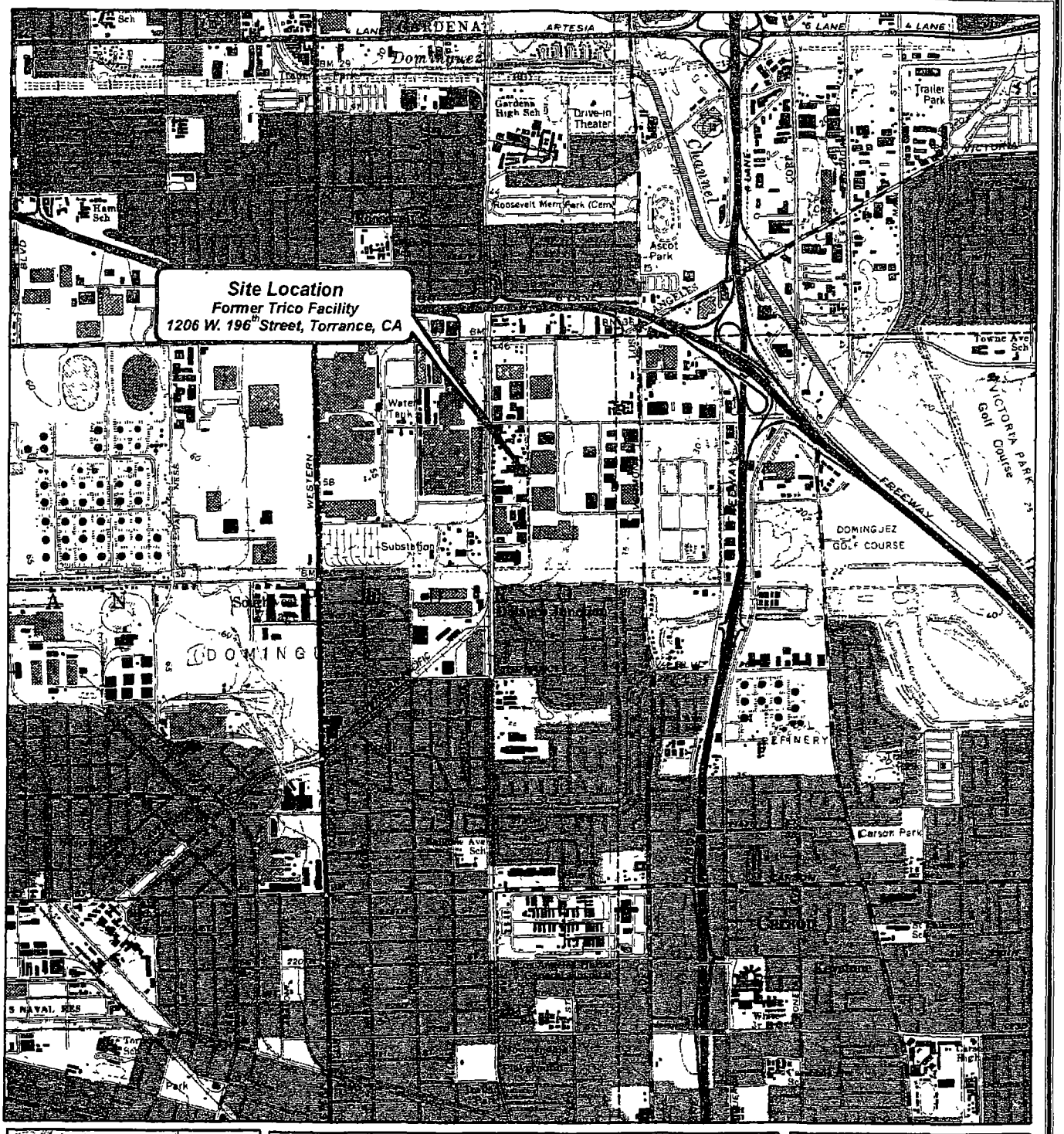
Maheshwar Mettu
Project Engineer

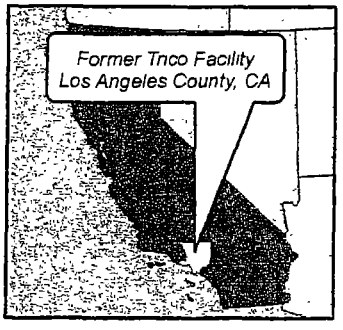
LT/MM/cjw

Enclosed: Figure 1 – Site Location Map
Figure 2 – Site Layout Map

Appendix A – Subsurface Survey and Associates, Inc. Drain Line Survey Report
Appendix B – Research Data
Appendix C – Field Notes
Appendix D – Old permits, Sewer plans, and Site photos

# FIGURES



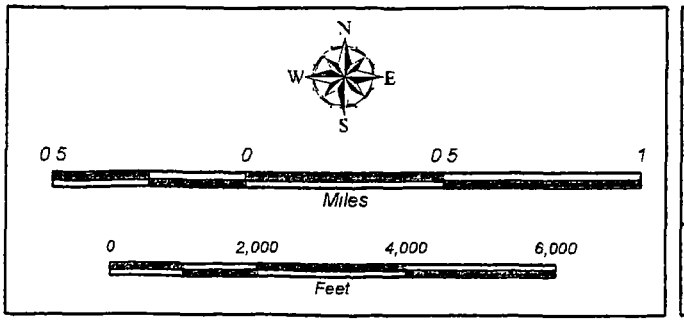
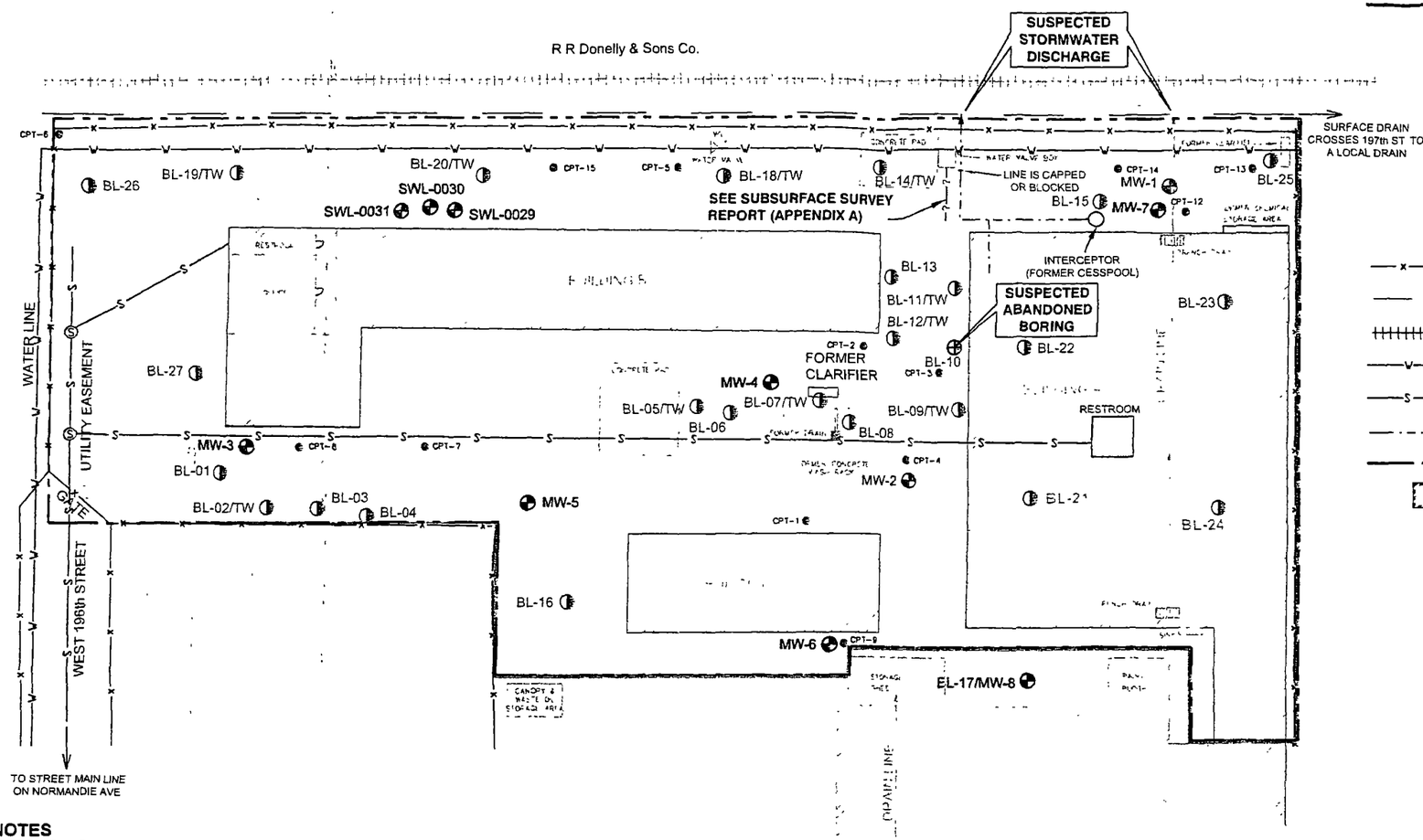




FIGURE 1
SITE LOCATION MAP

amec

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




## LEGEND

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

## NOTES

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

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2. DATE OF SURVEY JANUARY 17, 2003

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

4 TW - TEMPORARY WELL LOCATION

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

SCALE: 1" = 50'

0' 25' 50' 75' 100'

FORMER TRICO FACILITY
1206 W 196TH STREET
TORRANCE, CALIFORNIA

amec

7376 S W DURHAM ROAD
PORTLAND, OR 97224

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

**SITE LAYOUT** — FIGURE 2

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

# APPENDIX A

## SUBSURFACE SURVEY AND ASSOCIATES, INC.
## DRAIN LINE SURVEY REPORT

**SubSurface Surveys & Associates, Inc.**
***An Applied Geophysical Company***

215 S Hwy 101, Suite 203
Solana Beach, CA 92075

Office: (858) 481-8949
Fax: (858) 481-8998

December 21, 2005

AMEC Earth & Environmental, Inc.
1290 North Hancock Street
Suite 102
Anaheim, California 92075

Project/Invoice Number 05-382

Attn: Maheshwar R. Mettu

Re: Geophysical Investigation, Utilities/Abandoned Well Survey, Former Trico Facility, 1206 West 196th Street, Torrance, California **(2nd Revision)**

This report is to present the results of our geophysical survey carried out over portions of former Trico facility property, located at 1206 West 196th Street, in Torrance, California (Figure 1) on September 22, 2005. Purpose of the survey was to locate and identify, insofar as possible, any drain or sewer lines located within a large portion of the former Trico facility. Finally, the last objective of the survey was to include the findings of the geophysical survey within a detailed site interpretation map provided by the client (Figure 2).

A combination of electromagnetic induction (EM), magnetometer and ground penetrating radar (GPR) was applied to the search. A utility locator with line tracing capabilities was also brought to the field and used where risers exist onto which a signal could be impressed and traced. However, both EM instruments were directly affected by interference, believed to be caused by metallic reinforcing materials embedded within the ground cover, thus strictly limiting the survey to GPR and line tracer activities.

Multiple methods were utilized because each instrument senses different material properties of the ground and buried objects. At any given site the situation, geologic and cultural, may be such that one or more of the instruments may record excessive "noise", the ground may not provide sufficient contrasts, or there may be overlapping anomalies, for a given instrument to be effective. Summarily stated, there are generally instrumental limits and interpretational impediments.

Survey Design – The area to be surveyed was indicated in the field by the client and included numerous above-ground cultural objects that could potentially cause interference with the instruments should a formal rectilinear grid for data collection be established. In situations such as this, the best use of time is achieved by systematically free-traversing with the instruments while monitoring them continuously to determine which responses are significant and due to true subsurface targets, and which are due to above-ground features and must be ignored. Multiple GPR profiles were also collected throughout the area and in specific areas for confirmation where other instruments detected anomalies. Where applicable, the line tracer was also utilized to locate and trace out pipes and conduits by energizing nearby risers.

A Geonic's model EM61, and a Fischer M-Scope, were used for the EM sampling, thus confirming presence of metallic reinforcing materials within ground cover. A Sensors & Software Noggin Ground Penetrating Radar unit produced the radar images. A Schonstedt GA-52 magnetic gradiometer was brought into the field, however due to the presence of metallic reinforcing, the magnetic gradiometer was not applied to the survey. Finally, a Metrotech 9890 utility locator rounded out the tools applied. (See appendix for description of geophysical equipment used.)

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the findings of our investigation were marked on the ground cover at the site. The intent of this document is to demonstrate the procedure, and report the findings of the work.

GPR was especially useful at detecting both metallic and non-metallic lines and utilities. According to principles of physics, radar penetration is a function of soil conductivity and dielectric constant. At this site, local conditions were reasonably favorable for radar penetration due to the nature of the soil and materials covering the survey areas. This resulted in radar penetration down to approximately 3.0 feet bgs.

Buried piping and utilities detected during the surveys were marked with spray chalk on the ground cover at the site (red for electric, blue for water, green for suspected sewer/storm drain, and white for unknown) and documented in site photographs (Figures 3-10). The survey area consisted predominantly of asphalt-covered surfaces, along with a few slabs of concrete, both of which were reinforced, thus limiting the survey crew to GPR and line tracer activities.

In order to detail a drain line originating from a presumed abandoned cesspool, located near the southeast corner of the property, a metal fish-tape was inserted into an exposed pipe within the cesspool and traced using a utility locator. The signal was detected running parallel to the eastern wall of Building A. This signal then made two 90 degree turns, the first towards the west entering building A near its northern wall, and the second just a few feet further to the north, finally breaking 90 degrees towards the east (Figure 2). After the signal entered building A and neared the water valve box, the line tracer was unable to further detect the signal, nor was GPR able to confirm either of the mark-outs. Furthermore, Figure 5 illustrates an unknown line, possibly a water line, originating from a water valve box and running parallel with the cesspool's drain line. Additionally, upon visual inspection of a sewer manhole located along the northern edge of the property, lines were confirmed to enter and exit the manhole on an east/west path. Plus, a suspected branch of the sewer line was marked on the ground based solely on visible scars within the asphalt, heading at a southeast bearing (Figure 2). Unfortunately, due to the depth of the sewer line, GPR was unable to confirm or refute the suspected branch line.

Lastly, the areas west of Building B and north of Building A were traversed with the GPR in hopes of detecting a suspected abandoned monitoring well. Passes with the GPR within areas specified by the client were collected at approximately two feet intervals along both north-south and east-west headings. However, while GPR did not produce any images that shared characteristics with that of an abandoned well, a circular patch of concrete located near BL-10 may either represent the lost well, or more likely, may represent BL-10 (Figure 10).

*Subsurface Survey's professional personnel are trained and experienced and have completed thousands of projects since the company's inception in 1988. It is our policy to work diligently to bring this training and experience to bear to acquire quality data sets, which in turn, can provide clues useful in formulating our interpretations. Still, non-uniqueness of interpretations, methodological limitations, and non-target interferences are prevailing problems. Subsurface Surveys makes no guarantee either expressed or implied regarding the accuracy of the interpretations presented. And, in no event will Subsurface Surveys be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.*

All data acquired in these surveys are in confidential file in this office, and are available for review by your staff, or by us at your request, at any time. We appreciate the opportunity to participate in this project. Please call, if there are questions.

Ryan T. Merkey
Project Geophysicist

Gary W. Crosby, PhD, GP# 960
Senior Geophysicist

# SITE PHOTOGRAPHS

Former Trico Facility
1206 West 195th Street
Torrance, California

Figure 3

Figure 4

Figure 5

Figure 6

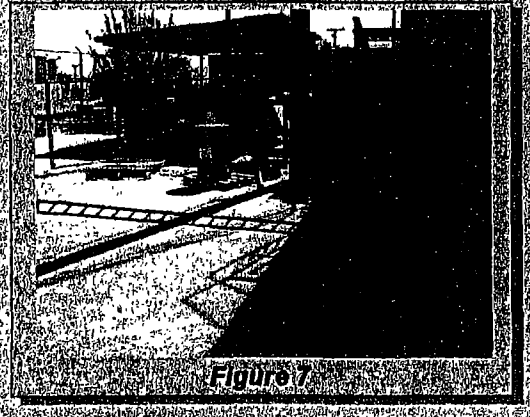


Figure 7

Figure 8

Figure 9

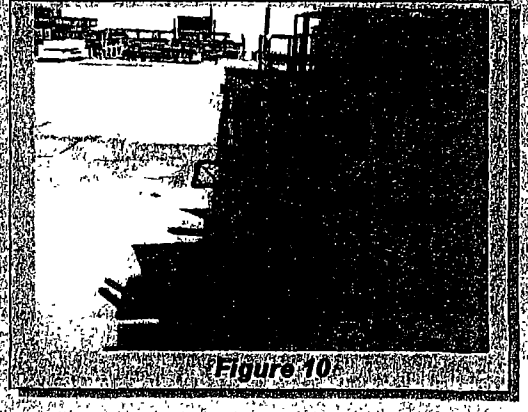


Figure 10

## Appendix

Brief Description of the Geophysical Methods Applied – The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) are sensed by the M-Scope. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than it is to conductors off to the side.

The EM-61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets. Conductive objects, to a depth of approximately 11 feet bgs can be detected.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

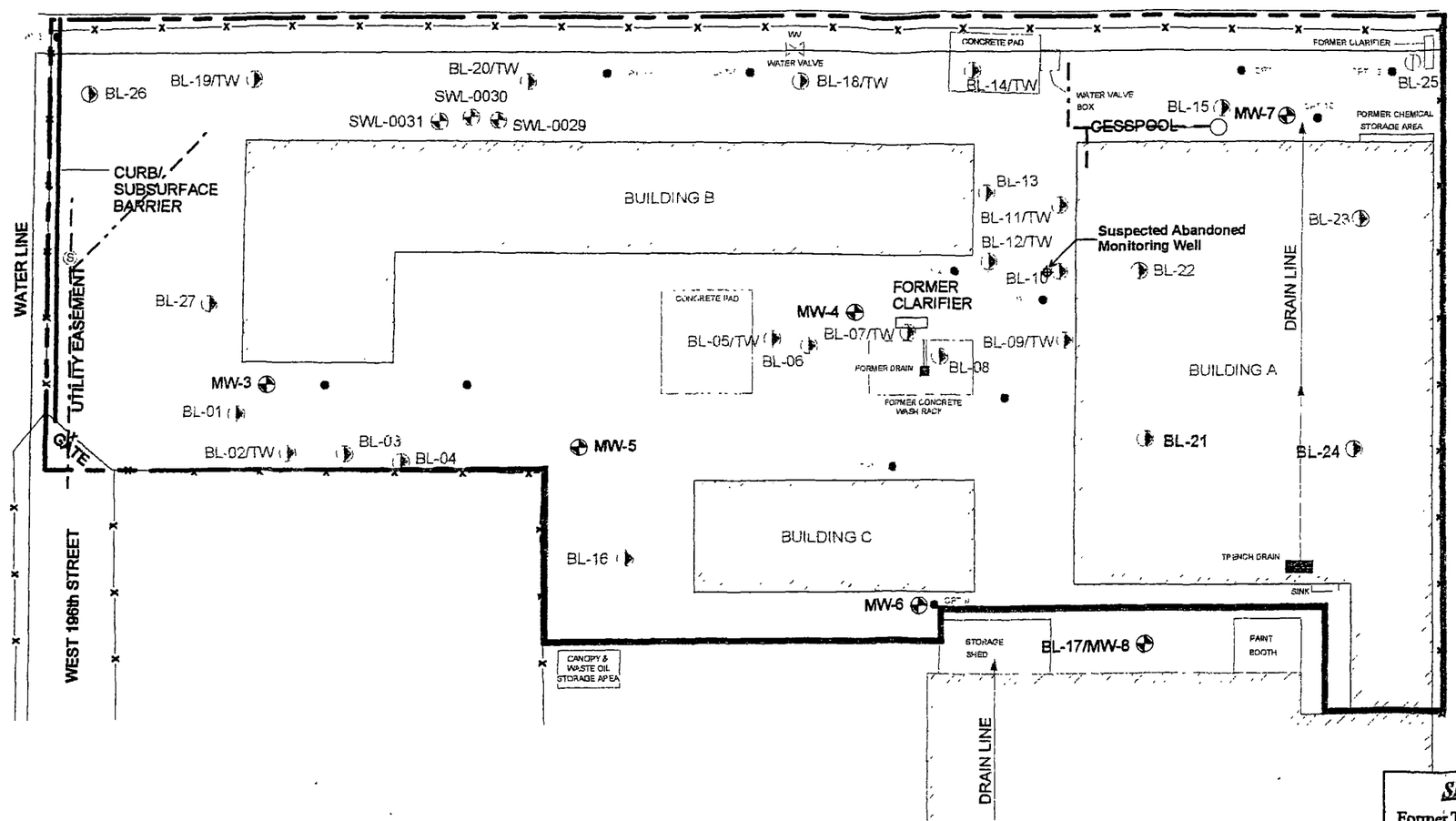
The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

Sub Surface Surveys

# SITE INTERPRETATION MAP

R R Donelly & Sons Co.




**SITE**

Former Trico Facility
1206 W. 196th Street
Torrance, California

**DRAFTED**

22 September 2005

*Not To Scale*

**LEGEND**

- sewer line
- storm drain line
- suspected abandoned well

**FIGURE 2**

# SITE LOCATION MAP

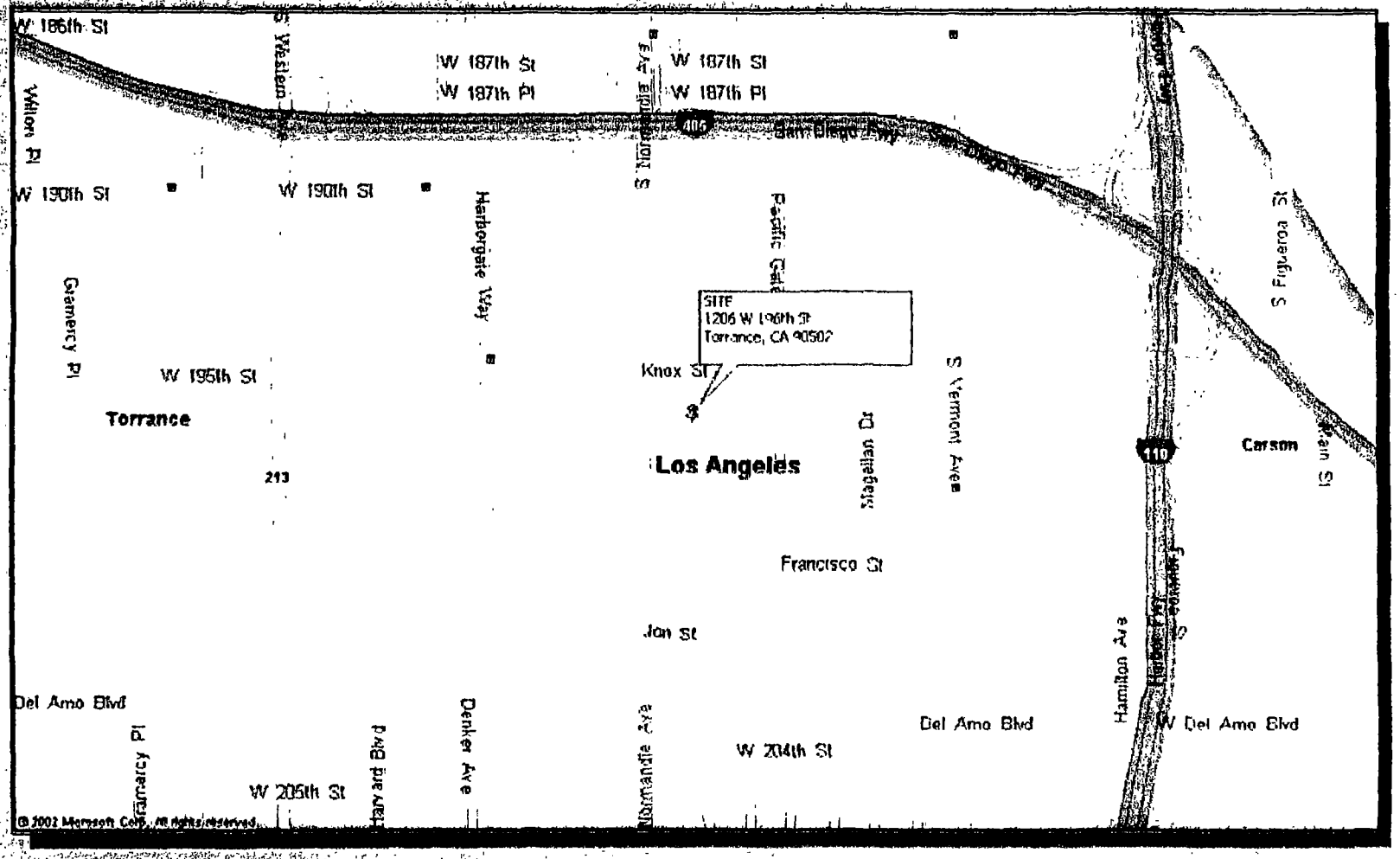
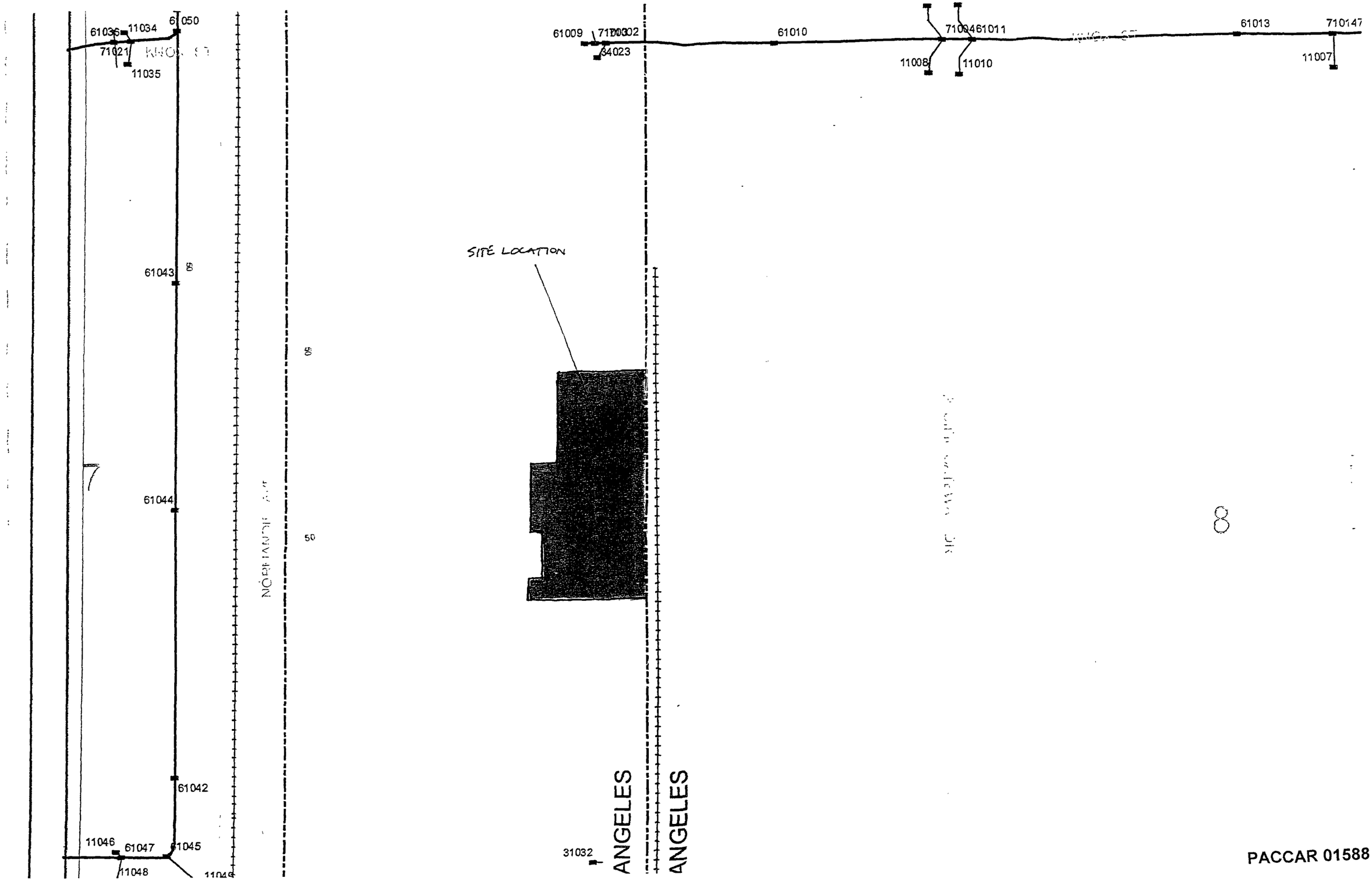
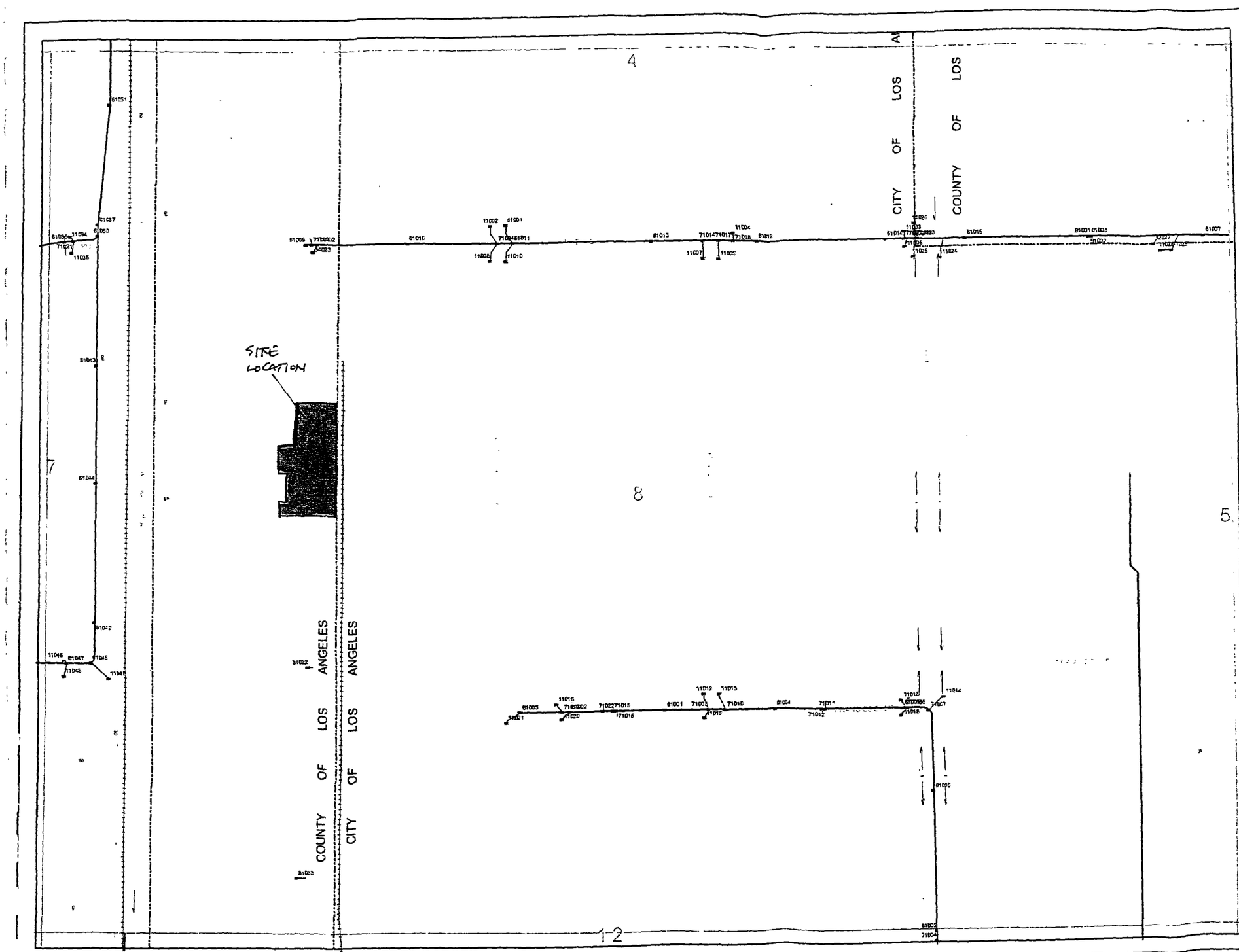



FIGURE 1

# APPENDIX B

# RESEARCH DATA

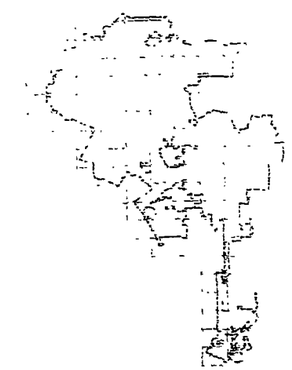

61036
11034
61050
71021
11035
61043
50
7
61044
50
61042
11046
61047
61045
11048
61009
71100302
34023
61010
71004
61011
11008
11010
61013
710147
11007
SITE LOCATION
31032
ANGELES
ANGELES
8




**Drainage Map No. 599**
**Quadrant No. 2**
**Grid No. 8**

- Inlet
- Buildings & Cultural Features
- Coast/Stormwater Channel
- City of Los Angeles
- Flow of Direction
- Intermediate Contour
- Stormwater Pipe
- Stormwater Lateral
- Relief Sewer
- Abandoned Pipe
- Miscellaneous Pipe
- Railroad
- Jetty
- Los Angeles City Limit

Location Index



Primary Office HARBOR

Feet
0 100 200 400 600

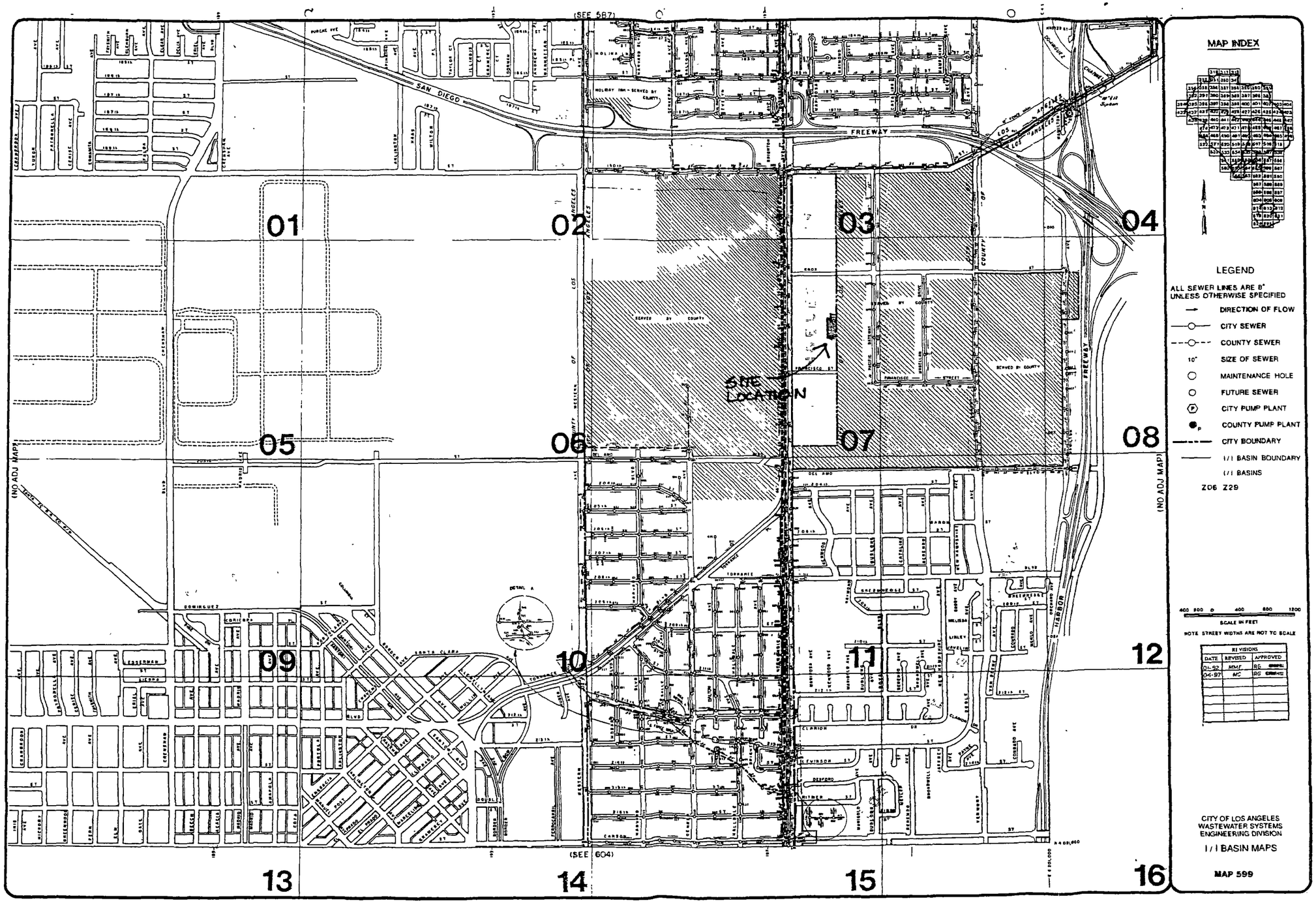
ENGINEERING

Landbase data is from the City of Los Angeles Survey and Mapping Division
Contours are derived from USGS digital elevation models
Drainage features are digitized from Stormwater Management drainage maps
Coordinate system is shown in California State Plane NAD83 Zone 5 (feet)
Cultural data are from Thomas Brothers maps digital data

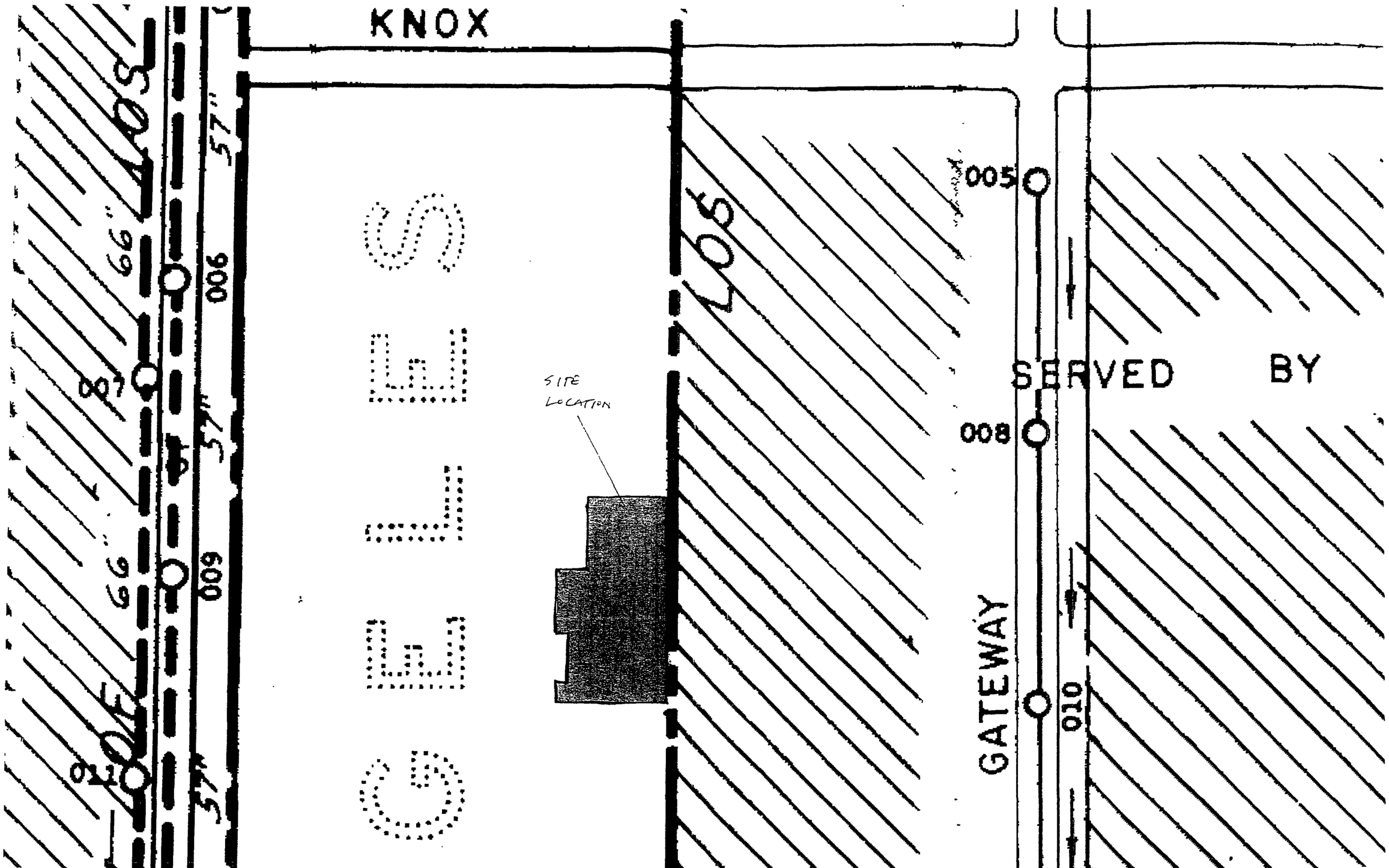
**Drainage feature revised date. August 1995**
**Landbase revised date July 1995**
**Contour revised date November 1992**

***Date Plotted 7/12/2005***

PACCAR 01589




PACCAR 01590




PACCAR 01591

# APPENDIX C

## AMEC Field Notes

amec

# Field Activity Daily Log

Project 1206 W 196th ST, Torrance, CA
Job No. 591M152680
Day & Date Thurs. 9/8/05

Completed By L Tanyman
Approved By



**Field Activity Subject:**
Research for Drain line Survey @ City of LA, County of LA

| Time | Description of Daily Activities and Events |
|---|---|
| 0900 | On-site @ City of Torrance Bldg & Safety to get any drawings or information about any sewer lines or storm drain line coming into the property. Bldg. & Safety told me that they didn't have that information Property not in Torrance city records. |
| 1000 | On-site @ County of LA in Lomita to get any drawings or information on any sewer lines with in the property. After they researched records, they were able to give me one drawing that shows sewer lines & Sewer manhole that appear to be on 196th ST but not on property but just NW outside fence line. |
| 1100 | On-site @ City of San Pedro Bldg & Safety to get any drawings or information about any lines, utility lines on the property. They told me that I need to go the County of LA offices on Temple St. |
| 1230 | On-site @ County of LA on Temple St. Found out that this is the wrong office for that kind of information I was told to go to County of LA offices on N. Figueroa St. |
| 1315 | On-site @ 201 N Figueroa St - County of LA offices Bldg. & Safety After they researched records, they could not find any drawings or information about this proper |
| 1345 | Called the County of LA information line to see if they can direct me about how to get this informati |
| 1415 | I proceed to the County of LA Public works |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** | **Important Telephone Calls:** |
| Clear, Sunny | Mahesh Mattu |

**Personnel on Site:**

amec

# Field Activity Daily Log

Project 1206 W 196th St. Torrance, CA
Job No. 591M152680
Day & Date Thurs. 9/8/05

Completed By L Tanguma
Approved By



**Field Activity Subject:**

| Time | Description of Daily Activities and Events |
|---|---|
| | offices located in Alhambra. |
| 1500 | On-site @ County of LA Public works Division. After |
| | talking to the representative he showed me drawings |
| | of the area, which didn't show me any utility lines |
| | on the property or going into the property. He told me |
| | to try the County of LA office in Lomita, which I |
| | already did. |
| 1545 | Headed back to office, will research Navigate LA |
| | website on the City of LA website for information |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** Clear Sunny | **Important Telephone Calls:** Mahesh Mettu, County of LA info line |

**Personnel on Site:**

amec

# Field Activity Daily Log

| | | | |
|---|---|---|---|
| Project | 1206 W. 190th ST, TORRANCE, CA | Completed By | L TANGUMAN |
| Job No. | 59114152680 | Approved By | |
| Day & Date | FRIDAY 9/23/05 | Sheet | 1 of 4 |

**Field Activity Subject:** DRAIN LINE SURVEY w/ SUBSURFACE SURVEY & ASSOCIATES

| Time | Description of Daily Activities and Events: |
|---|---|
| 0830 | On-site met w/ Tito of Mighty to let him know about survey work on the property. I will stay in contact with him throughout the day. Subsurface Survey (SSS) On-site - ~~Brent~~ Todd Barker & Ryan Merkey. |
| 0845 | Safety meeting conducted by Lloyd Tanguman (AMEC) on site hazards & safety work practices |
| 0900 | Go over scope of work with SSS & hand out various site maps & maps with sewer lines & storm drain lines, and cesspool. SSS start their survey in the back (East Side) of Bldg. A at the cesspool. SSS tracing out any underground pipes that lead to & from cesspool. SSS using maps to show the location. See associated maps. |
| 0930 | Call Mahesh M of AMEC to find out about water in East side of Bldg. A. SSS asked about what this is. SSS traced out water lines coming to & from water well box. |
| 0945 | SSS said that associated pipes to cesspool run North & bends east toward water well box but not sure where it goes. Water pipes that run North to south on East side of property interfere with equipment. SSS will put in their report. |
| 1000 | Talked to Tito of Mighty to find out if he knows of any surface drains w/ grates on property so they can use a fiber a tracing line in the pipe |

| | |
|---|---|
| **Visitors On Site:** OVERCAST IN AM CLEAR, SUNNY IN PM | **Changes from Plans and Specifications, and other special orders and important decisions:** |
| **Weather Conditions:** | **Important Telephone Calls:** MANY CALLS TO MAHESH METTU Norman of Safety Kleen |
| **Personnel on Site:** RYAN MERKEY, TODD BARKER, LLOYD TANGUMAN | |

amec

# Field Activity Daily Log

Project 1206 W 196th St, Torrance, CA
Job No. 591M152680
Day & Date Friday 9/23/05

Completed By Lloyd Tanguay
Approved By
Sheet 2 of 4

**Field Activity Subject:**

| Time | Description of Daily Activities and Events: |
|---|---|
| | to get better images on survey equipment. Tito said he doesn't know of any. I ask him about opening gate in the back of Bldg A, so SSS can secure & survey inside that area where there use to be an clarifier. Call Mahesh to find out if associated pipes to the clarifier were taken out with the clarifier. SSS to confirm this with survey equipment |
| 1015 | Called Safety Clean & Talked to Norma to find out when they will come pick up. They were suppose to come & pick up 2 55 gal drums full of purge water this morning. Norma will call drivers to find out where they are and when they can come by to pick them up. |
| 1025 | SSS started surveying around Bldg. B and found a manhole (that was marked on maps). SSS opened manhole to find out direction of sewer lines. Sewer line runs west to east from 196th ST towards back of property. SSS also discovered a sewer line that split off from main sewer line & runs southeast close to bldg. B, but SSS did not find where it ends. |
| 1045 | SSS traced a drain line that runs from inside Bldg A into the back of Bldg A & off property into surface channel. SSS also surveyed inside gated area where former clarifier was but did not find any associated pipes. |
| 1050 | I talked to Tito about move some pallets with |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** Overcast - am, Sunny, Clear - PM | **Important Telephone Calls:** To Mahesh M. To Norma of Safety Klean |

**Personnel on Site:** Ryan Merkey, Todd Barker, Lloyd Tanguay

amec

# Field Activity Daily Log

Project 1306 W. 196th St. Torrance, CA
Job No. 59M152680
Day & Date Friday, 9/23/05

Completed By Lloyd Tangman
Approved By
Sheet 3 of 4

Field Activity Subject:

| Time | Description of Daily Activities and Events: |
|---|---|
| | equipment on the west side of Bldg. B so SSS can |
| | Survey to find any abandon well. Called Mahesh |
| | to confirm location. |
| 1115 | SSS could not locate the abandon well. Ask Tito |
| | to move so more equipment just north of MW-4. |
| | Called Mahesh M again to confirm location of the |
| | abandon well. Mahesh will call Mr. Stray of Amec |
| | Kirkland, WA. to get a better location of the well. |
| 1130 | SSS started surveying in area east of Bldg. B & |
| | west of Bldg. C, Mahesh called back & said the |
| | abandon well is somewhere in the area of a |
| | Former clarifier west of Bldg. B. Talked to Juan |
| | the forklift driver & told him the area the |
| | needs to be cleared of any materials & equipment |
| | to perform survey. He said it will take some time to |
| | move all the equipment. SSS go to lunch. |
| 1145 | Called Norma @ Safety Klean to find out the |
| | status of the driver to pick up 2 barrels. She said |
| | they are close by on another site & will contact them |
| | to come by to pick up drums. |
| 1230 | SSS back from lunch, and start surveying around |
| | Bldg. A & Bldg. C. Mighty people are still at |
| | lunch until 1300, so SSS can't survey around |
| | Former clarifier. According to SSS, Ryan said that |
| | there seems to be surface drain area between |
| | Bldg. A & B, by the way the road slants into a |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** overcast - AM, Sunny Clear - PM | **Important Telephone Calls:** To Mahesh M. TO Norma of Safety Klean |

Personnel on Site: Todd Barker, Ryan Merkey, Lloyd Tangman

PACCAR 01597

amec

# Field Activity Daily Log

Project: 1206 W. 196th St. Torrance, CA
Job No.: 59/M/82680
Day & Date: Friday 9/23/05

Completed By: Lloyd Tanyguan
Approved By:
Sheet 4 of 4

**Field Activity Subject:**

| Time | Description of Daily Activities and Events: |
|---|---|
| | "V", & just runs off the property. SSS used a tracing line in the pipe of the cesspool to find out exactly where pipes run & to see if still active. |
| 1245 | Called Norma of Safety Kleen to tell her that if the driver can't come by 2:00 pm then we will have to reschedule the pick-up for another day. Called Mahesh to rely the message about the pickup. He said he will call Safety Kleen. |
| 1300 | SSS & I were waiting for Mighty to start moving more equipment & material from area around former clarifier. I went to talk to Tito to remind him that we need this things moved. SSS continued with their survey, taking pictures going over areas again to make sure they didn't miss anything. |
| 1330 | Called Norma @ Safety Kleen to remind her that 2:00 pm is the latest they can come to pick-up drums. SSS still waiting for the forklift drivers to move equipment and materials from the area where a former clarifier was. I notice some water ponding on property with water that looks contaminated with some unknown substance & a little oily sheen. I noted on a drawing. |
| 1400 | Ready to leave site. SSS stay on site to look for abandoned well by former clarifier. Re-scheduling drum pick-up with Safety Kleen for another day. |
| | — End of Page — |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** Overcast in AM, Clear Sunny in PM | **Important Telephone Calls:** To Mahesh Mettu (Amec), To Norma Safety Kleen |

**Personnel on Site:** Ryan Murkey, Todd Barker, Lloyd Tanyguan

## AMEC Earth & Environmental, Inc.
## Tailgate Safety Meeting Report *(continued)*

amec

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments: Performed work will be observed for any unsafe practices & corrected immediately.

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

| Name (print) | Company | Signature |
|---|---|---|
| LLOYD TANGUNAN | AMEC | [illegible] |
| TODD BARKER | SSS | [illegible] |
| RYAN T. MERKEY | SSS | [illegible] |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Meeting conducted by: LLOYD TANGUNAN *(print)* Title: FIELD TECHNICIAN

Signature: [illegible] Time: 0845

Health and Safety/Forms/VOLUME II/Tailgate.FH8

## AMEC Earth & Environmental, Inc.
## Tailgate Safety Meeting Report *(continued)*

amec

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments: Performed work will be observed for any unsafe practices & corrected immediately.

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

| Name (print) | Company | Signature |
|---|---|---|
| LLOYD TANGUNAN | AMEC | [illegible] |
| TODD BARKER | SSS | [illegible] |
| RYAN T. MERKEY | SSS | [illegible] |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Meeting conducted by: LLOYD TANGUNAN (print) Title: FIELD TECHNICIAN

Signature: [illegible] Time: 0845

Health and Safety/Forms/VOLUME II/Tailgate.FH8

# APPENDIX D

## OLD PERMITS, SEWER PLANS, AND SITE PHOTOS

76A642D
S & E-662 3-58

# APPLICATION FOR PERMIT

## SEWER—SEWAGE DISPOSAL

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
WM. J. FOX, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 1206 W. 196th St.
LOCALITY Torrance
NEAREST CROSS ST. Normandie
OWNER Amer Chem Solv Co.
MAIL ADDRESS
CITY TEL. NO.

### FOR APPLICANT TO FILL IN

LEGAL DESCRIPTION LOT NO. Legal in file
BLOCK TRACT
SIZE OF LOT NO. OF BLDGS. NOW ON LOT
USE OF BUILDINGS
CONTRACTOR M.C. Nottingham Coof So Cal.
ADDRESS 4928 No. Walnut Grove
CITY San Gabriel TEL. NO. Cu 32311
REGISTRATION NO. 147012 ☒ STATE ☐ COUNTY

| NO. | DESCRIPTION OF WORK | FEE | | |
|---|---|---|---|---|
| | HOUSE SEWER CONNECTING TO PUBLIC SEWER | @ $ 3.50 | | |
| 1 | HOUSE SEWER CONNECTING TO PRIVATE DISPOSAL SYSTEM | 1.00 | 1 | 00 |
| | CONNECT ADDITIONAL BLDG. OR WORK TO HOUSE SEWER | 1.00 | | |
| | ALTER OR REPAIR EXISTING SEWER OR DISPOSAL SYSTEM | 1.00 | | |
| | DISCONNECT AND ABANDON SEWER AND/OR DISPOSAL SYSTEM | 1.00 | | |
| 1 | SEPTIC TANK, SEEPAGE PIT OR PITS AND/OR DRAINFIELD | 3.00 | 3 | 00 |
| 1 | ~~CESSPOOL~~ - DRYWELL SPECIAL CONDITIONS ONLY | 2.00 | 2 | 00 |
| | | | | |
| | PERMIT | $ | 1 | 00 |
| | TOTAL FEE | | 7 | 00 |

### OWNER'S AUTHORIZATION

I HAVE THIS DATE CONTRACTED WITH THE HEREIN NAMED CONTRACTOR TO CONNECT THE ABOVE DESCRIBED EXISTING DWELLING TO THE PUBLIC SEWER

SIGNED THIS _____ DAY OF _____ 19__

OWNER OR OWNERS AGENT New
ADDRESS

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING PLUMBING AND SEWERS.

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND/OR LICENSED AS REQUIRED BY LOS ANGELES COUNTY AND STATE OF CALIFORNIA OR THAT I AM THE LEGAL OWNER OF THE ABOVE DESCRIBED RESIDENTIAL PROPERTY.

SIGNATURE OF PERMITTEE Randall McGrane

DISTRICT NO. 7 GROUP E-2 F-2 MAP BK PG

### CONNECTION DATA

STATION DEPTH
MANHOLE REFERENCE UPPER LOWER
TYPE OF CONNECTION Y. CURB P.L. LENGTH FROM M.L. TO P.L.
CO. IMP. NO. P. C. NO. JOB NO.
TRUNK PERMIT NO. ROAD PERMIT NO.
STATE ENCROACHMENT PERMIT NO.
INDUSTRIAL WASTE APPROVAL

CHARGES
CONNECTION CHARGE FEE
REIMBURSEMENT FEE

| APPROVALS | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| NEW HOUSE SEWER | | |
| CONNECT ADDITIONAL BUILDING OR WORK | | |
| SEPTIC TANK, SEEP. PIT(S) AND/OR DRAINFIELD | 4-1-57 | Bosnak |
| CESSPOOL ☐ DRYWELL ☒ | 4-22-57 | Bosnak |
| ALTER, REPAIR, SEWER OR SEWAGE DISPOSAL SYSTEM | | |
| DISCONNECT PLUG AND ABANDON HOUSE SEWER | | |
| BACKFILL SEPTIC TANKS ☐ SEEP. PIT(S) ☐ CESSPOOLS ☐ | | |

WILLIAM J. FOX, COUNTY ENGINEER VALIDATION R. A. WOOD, CHIEF PLBG. INSPECTOR

LAC 28655 MAR 22 4 7.00

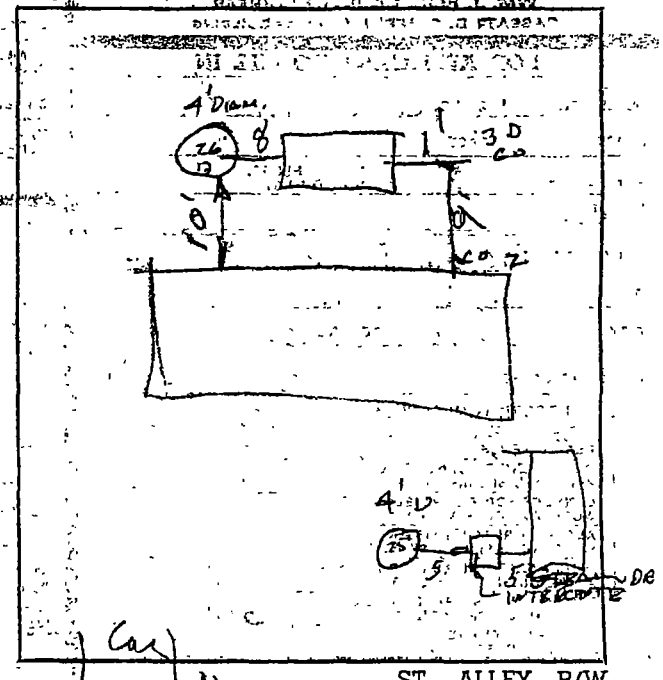
M Laub

PACCAR 01602

FOR DEPARTMENT USE

REQUIRED INFORMATION

1. INDICATE ALL BUILDINGS ON PROPERTY.
2. INDICATE AND DIMENSION SEWAGE DISPOSAL SYSTEM WITH TIE DISTANCES TO BUILDINGS AND PROPERTY LINES.
3. INDICATE SIZE OF SEPTIC TANK—DEPTH OF SEEPAGE PIT(S)—SIZE OF CESSPOOL(S)
4. INDICATE NORTH DIRECTION ON PLOT.
5. INDICATE BOTH STREETS IF CORNER.




FIELD NOTES

CE808A 4/72
76A642L

# APPLICATION FOR PERMIT

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION

1

## SEWER—SEWAGE DISPOSAL

BUILDING ADDRESS: 19706 W 196th ST.
LOCALITY: Gardena
NEAREST CROSS ST.: Normandie
OWNER: B & W. Inc
MAIL ADDRESS: 19706 S. Normandie
CITY: Gardena TEL. NO. 324-1406

| DISTRICT NO. | GROUP | MAP BK | MAP PG. | PROCESSED BY |
|---|---|---|---|---|
| 12 | F2 | V | 28 | Bewley |

### FOR APPLICANT TO FILL IN

LEGAL DESCRIPTION — LOT NO. Portion 6
BLOCK — TRACT 4671
SIZE OF LOT — NO. OF BLDGS. NOW ON LOT
USE OF BUILDINGS
CONTRACTOR: At-Los Cesspool Service
ADDRESS: P.O. Box 745
CITY: Lomita TEL. NO 326-0418
STATE LICENSE NO. 110675 LIC CLASS C-42

| NO. | DESCRIPTION OF WORK | FEE | |
|---|---|---|---|
| 1 | HOUSE SEWER CONNECTING TO PUBLIC SEWER @ | 7 | 00 |
| | SEPTIC TANK, SEEPAGE PIT OR PITS AND/OR DRAINFIELD @ | | |
| | HOUSE SEWER CONNECTING TO PRIVATE DISPOSAL SYSTEM @ | | |
| | CONNECT ADDITIONAL BLDG. OR WORK TO HOUSE SEWER @ | | |
| | OVERFLOW SEEPAGE PIT. DRAINFIELD EXTN., CESSPOOL DRYWELL. MANHOLE @ | | |
| | ALTER. REPAIR OR ABANDON HOUSE SEWER OR DISPOSAL SYSTEM @ | | |
| | | | |
| | | | |

| OWNER'S AUTHORIZATION | | | |
|---|---|---|---|
| | PERMIT $ | 3 | 00 |
| | TOTAL FEE | 10 | 00 |

I HAVE AT THIS DATE A CONTRACT WITH THE HEREIN NAMED CONTRACTOR TO CONNECT THE ABOVE DESCRIBED EXISTING DWELLING TO THE PUBLIC SEWER.

SIGNED THIS _____ DAY OF _____ 19___

OWNER OR OWNERS AGENT _____

ADDRESS _____

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING PLUMBING AND SEWERS

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SIGNATURE OF PERMITTEE _____

### CONNECTION DATA

STATION 6-61 DEPTH 10'
MANHOLE REFERENCE 4' W of — UPPER / LOWER
TYPE OF CONNECTION — Y. CURB P.L. — LENGTH FROM M.L. TO P.L.
CO. IMP. NO. 2456 — P.C. NO. JOB NO.
TRUNK PERMIT NO. — ROAD PERMIT NO.

| AFFIDAVIT | WAIVER | EASEMENT | RECORD INSTR. NO. | DATE |
|---|---|---|---|---|
| | | | | |

HWY. OR ST. WIDENING
STATE ENCROACHMENT PERMIT NO.
INDUSTRIAL WASTE APPROVAL

CHARGES
CONNECTION CHARGE FEE
REIMBURSEMENT FEE

| APPROVALS | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| NEW HOUSE SEWER | 11-23-76 | [illegible] |
| CONNECT ADDITIONAL BUILDING OR WORK | | |
| SEPTIC TANK, SEEP. PIT (S) AND/OR DRAINFIELD | | |
| CESSPOOL ☐ DRYWELL ☐ | | |
| ALTER, REPAIR, SEWER OR SEWAGE DISPOSAL SYSTEM | | |
| DISCONNECT PLUG AND ABANDON HOUSE SEWER | | |
| BACKFILL SEPTIC TANKS ☐ SEEP. PIT (S) ☐ CESSPOOLS ☐ | | |

INSPECTOR COPY

VALIDATION
CK. M.O. CASH

LA68940 NOV 12 10 A 10.00

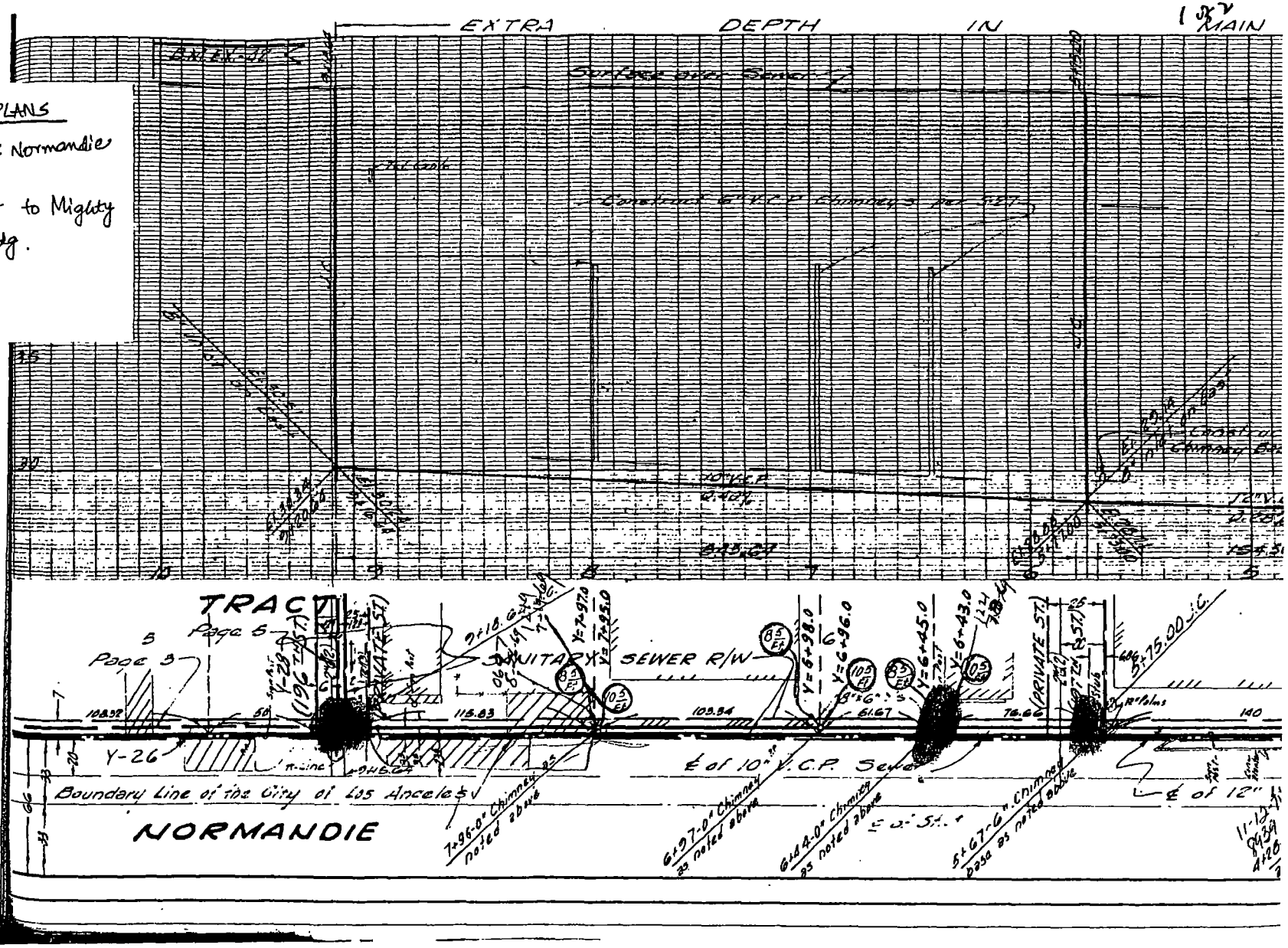
Bewley

PACCAR 01604

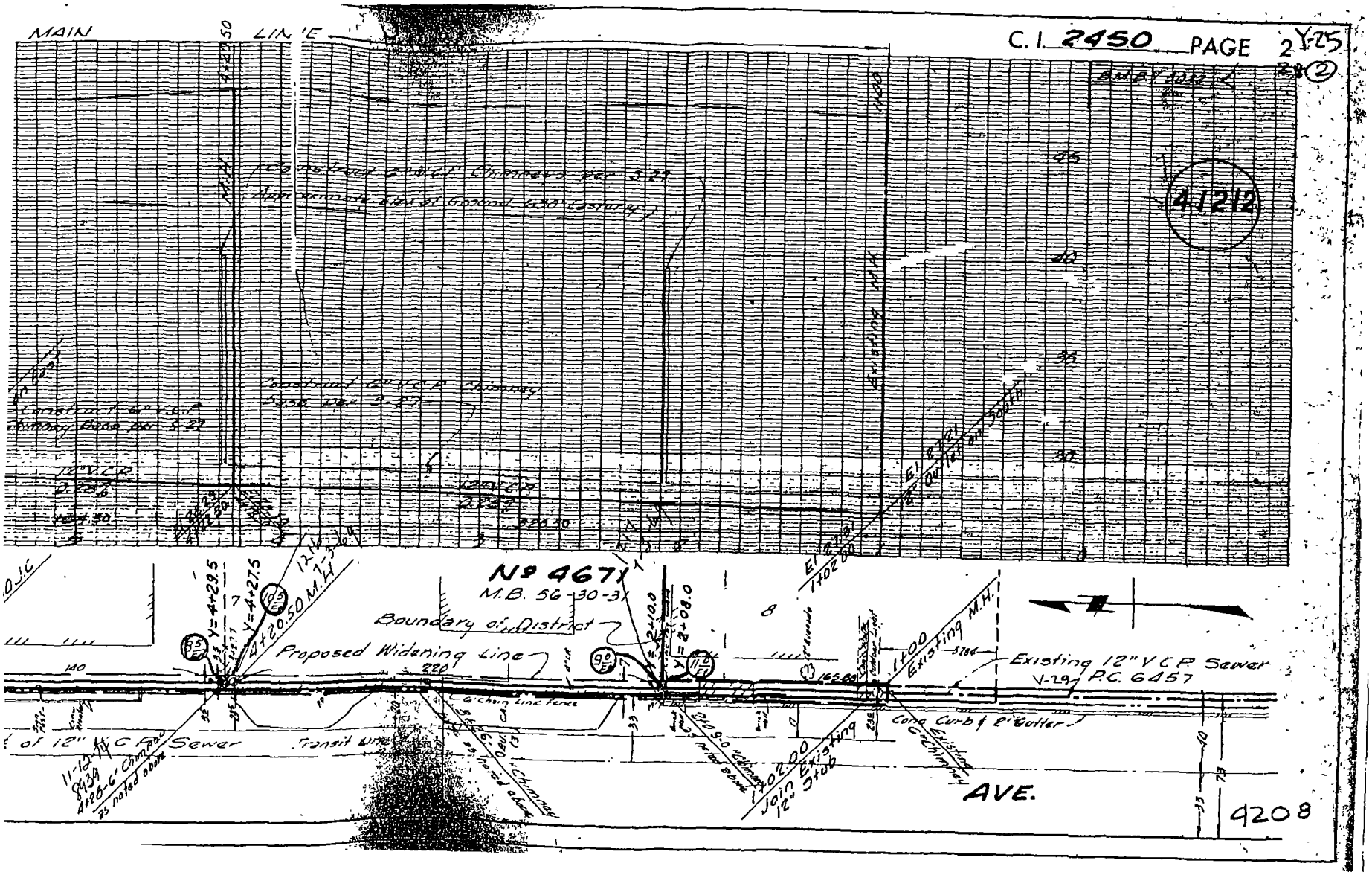
SEWER PLANS

① 196th st & Normandie

② adjacent to Mighty office Bldg.




PACCAR 01605

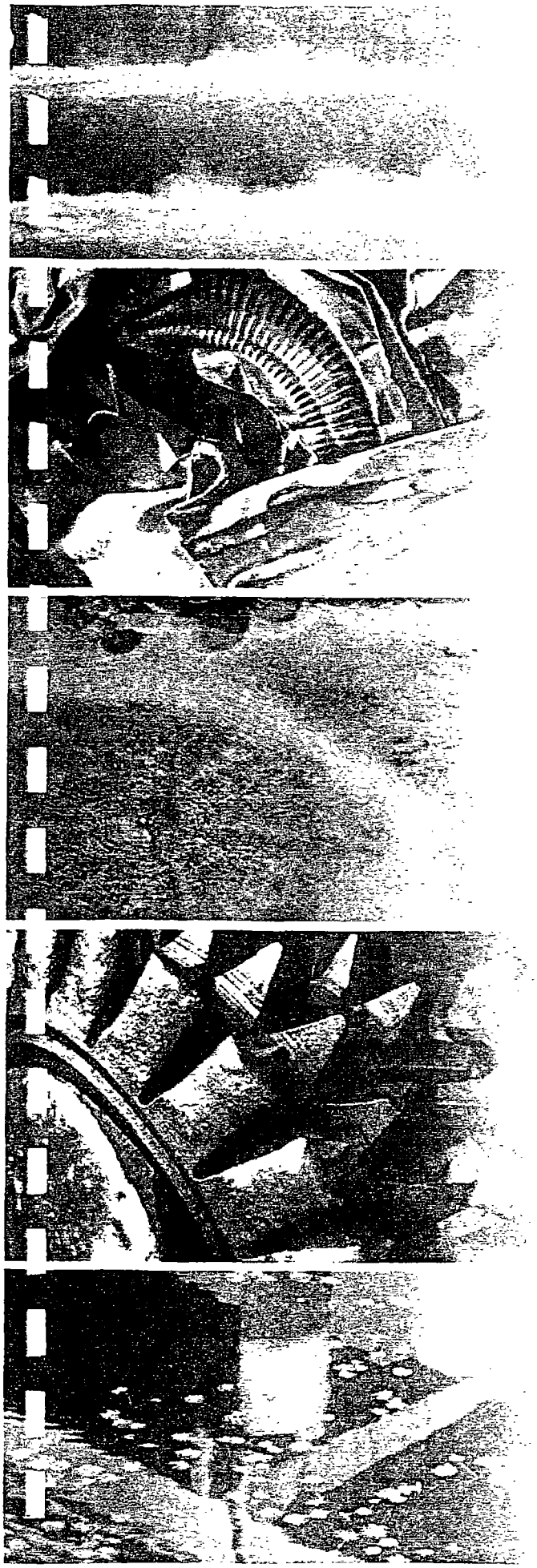



PACCAR 01606

# RESPONSE #17

August 2004

— ACM?, LBP Closeout Report — [redacted]



# Asbestos & Lead-based Paint Abatement Closeout Report

**PACCAR Inc. Property**
**1206 West 196th Street**
**Torrance, California**

**Prepared for:**

*PACCAR Inc.*
*777 106th Avenue N.E.*
*Bellevue, WA 98004*

**Prepared by:**

*Hart Crowser, Inc.*

*August 2004*

*Project No. 16135*

HARTCROWSER

HARTCROWSER
Delivering smarter solutions

www.hartcrowser.com

Anchorage

## Letter of Transmittal

To: PACCAR
777 106th Avenue NE
Bellevue, WA 98004

Date: August 9, 2004

Job No.: 16135-00

Attn: Fred Benz

Boston

Re: Asbestos & Lead-Based Paint Abatement Closeout Report
PACCAR Inc. Property, Torrance, California

We are sending the following items:

| Date | Copies | Description |
|---|---|---|
| August 2004 | 3 | Copies of the above-referenced report |
| | | |
| | | |
| | | |

Denver

These are transmitted:

Edmonds

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

| Remarks |
|---|
| Mr. Benz,<br>Please find enclosed three copies of the Final per your comments on the Draft. Thank you. |

Jersey City

Long Beach

By: Art Huber
Art Huber
Title: Staff

Copies to:

Portland

F:\Docs\Jobs\1613500\LOT_080904

Seattle

1910 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206 328 5581
Tel 206 324 9530

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**Prepared by:**

***Hart Crowser, Inc.***

***August 2004***

***Project No. 16135***


**Kevin Roberts, REA**
Project Scientist
CA Lead Inspector/Assessor #3530
CAC - 94-1524

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2B XRF Analytical Results


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1 Site Vicinity
2 Suspect Asbestos Sampling Location Plan
3 Suspect Lead-Based Paint Sampling Location Plan


## APPENDICES


A Asbestos Analytical Results
B Lead-Based Paint Analytical Results
C Asbestos & Lead Abatement Plan
D Agency Notifications
E Contractor Closeout Package American Technologies, Inc.
F Certifications

# ASBESTOS AND LEAD-BASED PAINT ABATEMENT CLOSEOUT REPORT PACCAR INC. PROPERTY 1206 WEST 196TH STREET TORRANCE, CALIFORNIA

## INTRODUCTION

Hart Crowser conducted an asbestos and lead-based paint survey for the former TRICO facility located at 1206 West 196th Street, Torrance, California (Figure 1 - "the Site") on May 7 and 8, 2003. The purpose of the survey was to identify accessible suspect asbestos-containing materials (ACM) and suspect lead-based paint (LBP) in Buildings A, B, and C at the Site. The survey was performed by Mr. Kevin Roberts, CAC, REA, DHS Lead Inspector/Assessor, and Mr. Stephan Adu-Gyamfi, EPA Asbestos Building Inspector, EPA Asbestos Contractor Supervisor, and EPA Asbestos Management Planner of Hart Crowser, Inc.

PACCAR Inc. (PACCAR) selected American Technologies, Inc. (ATI), a California-certified lead and asbestos abatement contractor, to provide limited abatement of the damaged LBP and ACM in Buildings A, B, and C. The sampling results from the survey were used by ATI to perform the abatement on February 11-17, 2004. Hart Crowser personnel provided abatement oversight.

Limited asbestos abatement was performed on portions of Buildings A and B. Small areas of vinyl floor tile, drywall, basecove, skim coat, stucco in the shipping office of Building B, and window putty in Buildings A and B were observed in damaged condition. The window putty in both buildings was encapsulated with a latex-type material. The remaining materials were either repaired (encapsulated) or removed.

Limited lead abatement was performed on portions of Buildings A and C. The damaged portions of LBP on the exterior surfaces of Building C were repaired (sanded and repainted with non-lead-containing paint). The bollards (pole protectors) in Building A were chemically stripped of LBP and repainted with non-lead-containing paint. The damaged portions of LBP on the overhead traction beam (orange) in Building A were repaired (sanded and repainted with non-lead-containing paint). Damaged ceramic basecove tiles were removed from the restroom in Building B.

## ASBESTOS SURVEY

Hart Crowser conducted the asbestos survey for the Site on May 7 and 8, 2003. The survey was performed by conducting a space-by-space inventory of the buildings for suspect materials. Bulk samples were collected from representative areas in the various office spaces, common areas, and warehouse areas. Bulk sampling was conducted in accordance with procedures outlined in the Asbestos Hazard Emergency Response Act (40 CFR 763.86, Sampling). The procedure requires the inspector to select random sampling locations from homogeneous materials suspected to contain asbestos. A homogeneous material is defined as an area of surfacing material, thermal system insulation, or miscellaneous materials that is uniform in color and texture and appears to be identical in all aspects.

The homogeneous materials that were sampled in this survey included resilient flooring, roofing components, drywall/tape/compound, plaster, window putty, basecove, splined (glued in) ceiling tiles, and exterior stucco. Asbestos sampling locations are depicted on Figures 2A and 2B. Inaccessible suspect asbestos-containing construction materials may be located within walls, ceiling cavities, and other non-accessible areas. Inaccessible materials should not be disturbed until proper sampling and analysis have determined their asbestos content.

Any materials with greater than one percent (1%) asbestos by weight is considered by the Environmental Protection Agency (EPA) to be an asbestos-containing material (ACM). Any materials with greater than one-tenth of one percent (0.1%) asbestos by weight is considered by California Occupational Safety & Health Administration (CAL-OSHA) to be an asbestos-containing construction material (ACCM).

ACM bulk samples were analyzed using polarized light microscopy (PLM) in accordance with the EPA Interim Method of Asbestos in Bulk Insulation Samples as defined in 40 CFR 763, Appendix A to Subpart F (EPA Method 600/R-93/116 Method). The samples were analyzed using PLM at LA Testing' s NVLAP accredited laboratory. Samples analyzed that do not contain asbestos are classified as being None Detected (ND). The results of PLM analyses are summarized in Table 1. Analytical reports for asbestos are included in Appendix A.

**Table 1 – Asbestos Analytical Results**

| Sample No. | Component Description – Location | Results in % Asbestos | Approximate Quantity ACM in Square Feet |
|---|---|---|---|
| **Building A** | | | |
| ACM 1-3 | Silver Roof Mastic | **8% Chrysotile** | 250 |
| ACM 4-6 | Black Roof Mastic | **7% Chrysotile** | 250 |
| ACM 7-9 | Gray Roof Mastic | **3% Chrysotile** | 250 |
| ACM 10-12 | White mastic - Wood exterior cabinet | **5% Chrysotile** | 3 |
| ACM 31-33 | Office – joint compound | ND* | N/A* |
| ACM 34-36 | SE window – window putty | **2% Chrysotile** | 50 |
| **Building C** | | | |
| ACM 40-42 | Gray roof mastic | **10% Chrysotile** | 150 |
| ACM 43-45 | E/ SE window – window putty | ND | N/A |
| **Building B** | | | |
| ACM 13-15 | Tan 12" VFT/ mastic | **3% Chrysotile (tile only)** | 150 |
| ACM 16-18 | Brown 12" VFT/ mastic | **2% Chrysotile (tile only)** | 150 |
| ACM 19-21 | Brown basecove/ mastic | **2% Chrysotile (mastic only)** | 12 |
| ACM 22-24 | White window putty | **2% Chrysotile** | 5 |
| ACM 25-27 | White 12" spline ceiling tile | ND | N/A |
| ACM 28-30 | White Roofing material | ND | N/A |
| ACM 46-48 | Plaster | ND | N/A |
| ACM 49-51 | Skim Coat | **<1% Chrysotile** | 4,000 |
| ACM 52-54 | Drywall/ tape/ compound (shipping office) | **<1% Chrysotile** | 4,000 |
| ACM 55-57 | Tan stucco (shipping office) | **<1% Chrysotile** | 600 |
| ACM 58-60 | Gray roof mastic | **8% Chrysotile** | 300 |

Notes: *ND = None Detected at detection limit
*N/A = Not applicable
Detection limit – 1%
Samples 37-39 were deleted due to duplication

Hart Crowser collected sixty samples of suspect asbestos-containing materials from the Site. In addition to the sampled materials, two metal-clad fire doors were observed in Building A (see Figure 2). At PACCAR's request, these fire doors were not sampled and are presumed asbestos-containing materials (PACM). A roof penetration that appeared to be a transite flue was observed on the northeast corner of Building B. This area was not accessible for closer observation but should also be considered PACM until the asbestos content can be determined. The materials containing less than 1% asbestos are non-friable.



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Once they are removed by certified abatement personnel, they can be disposed of as construction debris.

Generally the observed ACMs were in good condition. Normally, ACM in good condition does not pose a hazard, unless disturbed. Small areas of vinyl floor tile, drywall, basecove, skim coat, stucco, and window putty were observed in damaged condition. These materials were addressed in the abatement scope of work.

## LEAD-BASED PAINT SURVEY

Hart Crowser conducted a lead-based paint survey for the Site on May 7 and 8, 2003. The scope of work included assessing the painted surfaces of the buildings, and sampling the materials for lead content. Walls and partitions on the Site were constructed of drywall, concrete, wood, and metal. Locations where lead-based paint was confirmed are depicted on Figure 3.

Hart Crowser personnel conducted a visual investigation of the property to identify and quantify suspect lead-based painted materials. Upon completion of the visual investigation, X-ray fluorescence (XRF) testing was conducted on previously identified surfaces. Approximately 10 percent of the surfaces tested by XRF were also subjected to confirmation paint chip laboratory analysis. Laboratory analytical reports and XRF field data documentation are included in Appendix B.

A Niton XRF Spectrum Analyzer was utilized for the analysis of suspect LBP. In this method of analysis, the material is exposed to X-Rays or other high-energy radiation (such as gamma rays), which causes lead to emit X-Rays with a characteristic frequency. The intensity of this radiation is measured by the instrument's detector and is then converted into a number that represents the amount of lead in the material per unit area, usually milligrams per square centimeter ($mg/cm^2$).

The Department of Housing and Urban Development (HUD) and the Occupational Safety and Health Administration (OSHA) have set a lead threshold of 1.0 $mg/cm^2$ as the threshold at which a substance is a regulated lead-containing material. The Los Angeles County Department of Health Services has set a lead threshold of 0.7 $mg/cm^2$, or equal to or greater than 0.5% lead by weight (5,000 ppm) as being a regulated lead-containing material. Since this project falls within the boundaries of Los Angeles County, contractors working in or around materials containing greater than 0.7 $mg/cm^2$ of lead must



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be notified of the hazards and working procedures associated with lead-containing materials.

The painted surfaces observed during the survey were generally in good condition. Several small areas of peeling and/or flaking paint were observed during the survey. Ninety-four paint surfaces were analyzed for lead by XRF during the survey from interior and exterior painted surfaces. Four calibrations were performed during the testing. Ten confirmation paint chip samples were collected from testing areas and submitted to L. A. Testing laboratory in Pasadena, California, for lead analysis. The paint samples were collected from areas with orange, yellow, tan, red, white, blue, silver, and gray paint. Substrate surfaces included concrete, plaster, stucco, drywall, plastic, ceramic, metal, and wood. Table 2 presents the analytical results with the XRF sample numbers listed for the confirmation samples.

**Table 2A – Paint Chip Analytical Results**

| Sample No. | Color/Substrate/Location | Lead Results in mg/kg |
|---|---|---|
| **Building A** | | |
| Pb 1 | Orange/metal/building frame (XRF 10) | 125,511 |
| Pb 2 | Yellow/concrete/caution stripe (XRF 12) | 89,459 |
| Pb 3 | Orange/concrete/pole protectors (XRF 14) | 101,623 |
| Pb 4 | Orange/metal/overhead traction beam (XRF 24) | 112,969 |
| **Building C** | | |
| Pb 5 | White/metal/exterior wall (XRF 41) | 6,451 |
| **Building B** | | |
| Pb 6 | Yellow/wood/door rail (XRF 47) | 8,242 |
| Pb 7 | Tan/metal/door frame (XRF 81) | 7,555 |
| Pb 8 | Tan/metal/stair rail (XRF 83, 84) | 7,623 |
| **Building C** | | |
| Pb 9 | White/metal/roof | 607 |
| **Building B** | | |
| Pb 10 | White/metal/roof | 421 |



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## Table 2B – XRF Analytical Results

| Sample No. | Color/Substrate/Location | Lead Results in mg/cm$^2$ |
|---|---|---|
| **Building A** | | |
| 1 | (Calibration check - passed)* | |
| 2 | Tan/ concrete/exterior | 0.00 |
| 3 | White/concrete/interior wall | 0.10 |
| 4 | Red/metal/building frame | 0.11 |
| 5 | Brown/plastic/sliding door | 0.13 |
| 6 | Red/metal/interior frame | 0.05 |
| 7 | Green/wood/bracket (electrical board) | 0.00 |
| 8 | Orange/metal/electrical panel | **2.65** |
| 9 | Gray/metal/electrical panel | 0.00 |
| 10 | Orange/metal/building frame | **2.97** |
| 11 | Brown/yellow undercoat/concrete/door (attachment to concrete) | **2.61** |
| 12 | Yellow/concrete/caution stripe (floor) | **1.76** |
| 13 | White/metal/exterior pipe | **1.62** |
| 14 | Orange/concrete/bottom of pole protectors | **3.78** |
| 15 | Red/concrete/interior wall | 0.00 |
| 16 | White/wood/small office | 0.00 |
| 17 | Blue/wood/window frame | 0.00 |
| 18 | Blue/wood/baseboard | 0.00 |
| 19 | Black/metal/door frame | 0.11 |
| 20 | Orange/metal/door frame | **3.38** |
| 21 | White/metal/exterior door | 0.05 |
| 22 | Red/metal/exterior door frame | 0.01 |
| 23 | Green/wood/exterior AE stand | 0.00 |
| 24 | Orange/metal/overhead traction beam | **1.39** |
| 25 | Gray/metal/electrical switch board | 0.01 |
| 26 | Yellow/metal/overhead traction beam | **2.07** |
| 27 | Silver/plastic/door | 0.00 |
| 28 | Brown/mullion/window | 0.13 |
| 29 | Silver/window frame (office) | 0.05 |
| 30 | *Silver/metal/clad door* | ***>5.0*** |
| 31 | Gray/wood/wall | 0.07 |
| 32 | White/metal/exterior door | 0.04 |
| 33 | White/metal/exterior door frame | 0.06 |
| 34 | White/metal/exterior window frame | 0.06 |
| 35 | Red/metal/sign | 0.11 |



PACCAR 01617

| Sample No. | Color/Substrate/Location | Lead Results in mg/cm$^2$ |
|---|---|---|
| 36 | Silver/metal/exterior skylight frame roof | 0.01 |
| 37 | Orange/wood/exterior cabinet | **1.07** |
| 38 | White/metal/exterior roof support | 0.01 |
| 39 | White/metal/exterior window frame | **0.97** |
| **Building C** | | |
| 40 | White/concrete/exterior wall | 0.00 |
| 41 | White/metal/exterior wall | 0.43 |
| 42 | White/metal/interior frame | 0.01 |
| 43 | White/metal/building frame | 0.14 |
| 44 | White/metal/interior truss | 0.04 |
| 45 | White/metal/exterior window frame | 0.30 |
| **Building B** | | |
| 46 | Cream/metal/exterior door | 0.01 |
| 47 | Yellow/wood/door rail | **1.47** |
| 48 | Tan/concrete/wall | 0.08 |
| 49 | Red/metal/support beam | **1.36** |
| 50 | Tan/stucco/wall | **0.82** |
| 51 | Gray/metal/interior office door | 0.37 |
| 52 | White/dry wall/interior restroom | 0.02 |
| 53 | White/porcelain/sink restroom | **>5.0** |
| 54 | White/plaster/wall restroom | 0.02 |
| 55 | Tan/ceramic/basecove restroom | **>5.0** |
| 56 | Tan/metal/wall restroom | 0.04 |
| 57 | Red/tile/floor restroom | 0.01 |
| 58 | Yellow/metal/exterior stair railing | 0.11 |
| 59 | Gray/metal/door frame | 0.57 |
| 60 | White/metal/interior siding wall | 0.03 |
| 61 | White/metal/exterior siding | **0.97** |
| 62 | White/wood/exterior window frame (office) | 0.00 |
| 63 | White/wood/exterior door frame (office) | 0.11 |
| 64 | White/metal/panel (office/restroom/hallway) | 0.01 |
| 65 | White/dry wall/interior office | 0.02 |
| 66 | White/dry wall/ceiling office | 0.00 |
| 67 | White/wood/door | 0.23 |
| 68 | Brown/wood/door | 0.35 |
| 69 | Brown/door frame | 0.01 |
| 70 | Brown/door jam | 0.00 |
| 71 | Cream/wood/door frame office | 0.08 |



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| Sample No. | Color/Substrate/Location | Lead Results in mg/cm$^2$ |
|---|---|---|
| 72 | Cream/wood/door jam office | 0.05 |
| 73 | Cream/wood/window frame office | 0.00 |
| 74 | Gray/concrete/floor office | 0.01 |
| 75 | Red/metal/interior frame | 0.01 |
| 76 | Brown/metal support beam | 0.04 |
| 77 | Brown/concrete/interior wall | 0.01 |
| 78 | Cream/wood/wall office | 0.00 |
| 79 | Brown/wood/door office | 0.01 |
| 80 | Cream/wood/floor rail | 0.04 |
| 81 | Tan/metal/door frame | **0.99** |
| 82 | Gray/metal/siding | 0.10 |
| 83 | Tan/metal/stair rail | 0.18 |
| 84 | Tan/metal/stair rail (different angle from 83) | 0.17 |
| 85 | Cream/metal/down spout | 0.02 |
| 86 | (Self calibration – inconclusive result)* | (0.68) |
| 87 | (Calibration (external) – inconclusive result)* | (1.18) |
| 88 | (Calibration – passed)* | (1.04) |
| **Building A** | | |
| 89 | Blue/restroom door frame | 0.17 |
| 90 | Blue/concrete/exterior wall restroom | 0.00 |
| 91 | White/concrete/exterior wall restroom | 0.00 |
| 92 | Green/metal/door restroom | 0.14 |
| 93 | Cream/ceramic/tile wall restroom | 0.01 |
| 94 | Grey/metal/clad wood fire door | **2.64** |
| 95 | White/ceramic/sink restroom | **2.84** |
| 96 | White/ceramic/sink restroom | 0.01 |
| 97 | Brown/hand wash basin restroom | 0.00 |
| 98 | Cream/concrete/wall restroom | 0.00 |
| 99 | (Calibration check - passed)* | |

*The manufacturer's guide requires periodic calibration of the instrument according to prescribed guidelines.
Bolded concentration exceeds Los Angeles County threshold of 0.7 mg/cm$^2$.

## ATI OVERSIGHT

Hart Crowser reviewed copies of the lead and asbestos abatement plan (Appendix C) submitted by ATI prior to abatement; the agency notifications (Appendix D); and worker certifications, worker medical clearances, and respirator fit tests (Appendix F). Hart Crowser met with ATI personnel and



PACCAR 01619

inspected the Site prior to abatement to identify the LBP and asbestos-containing materials to be abated. Level C personal protective equipment was worn during the abatement activities. Hart Crowser conducted a visual inspection of the work area at the conclusion of the abatement to confirm the proper and complete removal of the identified LBP and ACM from the area. The abated LBP was drummed, labeled, and stored in a secure area. The LBP was properly disposed of at the CWM Kettleman Hills Class I Subtitle C facility in Kettleman City, California. The ACM was bagged and stored in a labeled, secured area. The ACM was properly transported and disposed of on March 19, 2004.

## CLOSURE REPORT

Per PACCAR authorization, Hart Crowser provided ATI oversight during abatement at Buildings A, B, and C from February 11-17, 2004. Appendix E presents ATI's closure documentation. Hart Crowser provided a visual inspection of the work areas and marked the ACM and LBP in the buildings for repair/removal. The scope of work included the following:

Building A

- Encapsulate asbestos-containing window putty from interior windows.
- Remove and dispose of orange colored LBP from pole protectors (bollards). Paint to be chemically stripped. Repaint areas of removed paint with non-leaded paint.
- Remove and dispose of loose and flaky orange colored LBP from significantly damaged and isolated areas of the overhead traction beams. Encapsulate edges of removed paint.

Building B

- Remove and dispose of damaged or loose asbestos-containing window putty from exterior windows. Encapsulate edges of removed areas.
- Remove and dispose of damaged asbestos-containing floor tile and baseboard mastics from office areas. Encapsulate edges of removed areas.
- Remove and dispose of damaged asbestos-containing drywall/joint compound from office areas. Damaged areas to cut out to nearest stud bay to facilitate replacement. Encapsulate edges of removed areas.

Building C

- Remove and dispose of loose and flaky white colored LBP from exterior siding. Encapsulate remaining intact paint edges with primer.



PACCAR 01620

The LBP and window putty removal from Buildings A and C was conducted using personal protective equipment that consisted of Tyvek coveralls and half-face respirators. These areas were clear of all non-abatement personnel during these activities. The floor tile and drywall abatement in Building B was conducted using a simple containment consisting of plastic sheeting to contain the area, and personal protective equipment consisting of Tyvek coveralls and half-face respirators.

The damaged ACM and LBP materials identified in the Hart Crowser report were properly removed/repaired, bagged, and stored in a labeled and secured storage container pending waste profiling for disposal. The personal and perimeter air monitoring results for asbestos and lead were below the respective Permissible Exposure Levels (Asbestos - 0.1 fibers per cubic centimeter averaged over an 8-hour period; Lead - 50 micrograms per cubic meter of air averaged over an 8-hour period).

A visual inspection by Hart Crowser personnel was performed at the completion of asbestos and lead abatement activities. Additionally, five asbestos air clearance samples were collected in Building B where a containment had been set up to prevent the release of asbestos fibers to the outside environment. The clearance samples were submitted to EMC Laboratory for Phase Contrast Microscopy (PCM) analysis. Final air clearance sample results were less than 0.01 fibers/cc of air, which is the U. S. Environmental Protection Agency's re-occupancy standard following asbestos abatement projects. Based on the visual inspection and the analytical results, the abatement has been completed and according to applicable regulations.

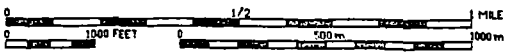
## LIMITATIONS

Conditions described in this report are as present at the time of investigation, unless otherwise stated. Hart Crowser sampled only the substances, conditions, and locations described in this report at the time indicated. No inferences regarding other substances, conditions, location, or time can be made unless specifically stated in this report. Hart Crowser's scope of work was limited to contractor oversight during abatement.

The conclusions and recommendations presented are based on the agreed upon scope of work outlined in this report.

F:\docs\jobs\1613500\Closeout Report.doc

Figures




BASE MAP FROM U.S.G.S. 7 5' SERIES (TOPOGRAPHIC)
TORRANCE QUADRANGLE, CALIFORNIA, 1964, PHOTOREVISED 1981

N

HARTCROWSER

HC PROJECT NO.: 16135

DATE: MARCH 30, 2004

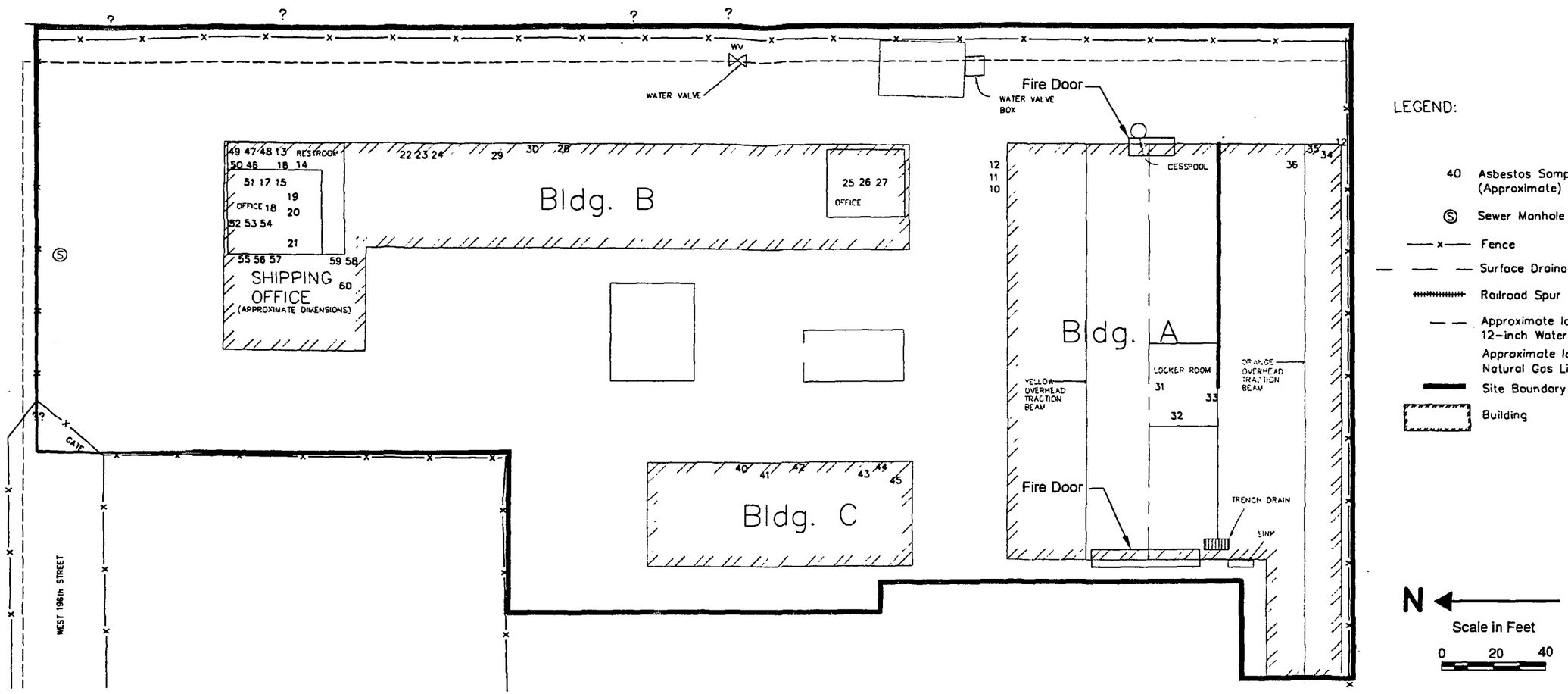
PROJECT NAME: FORMER TRICO FACILITY

SITE LOCATION MAP
1206 W. 196th STREET
TORRANCE, CALIFORNIA

FIGURE 1

PACCAR 01623

R R Donelly & Sons Co.




HARTCROWSER

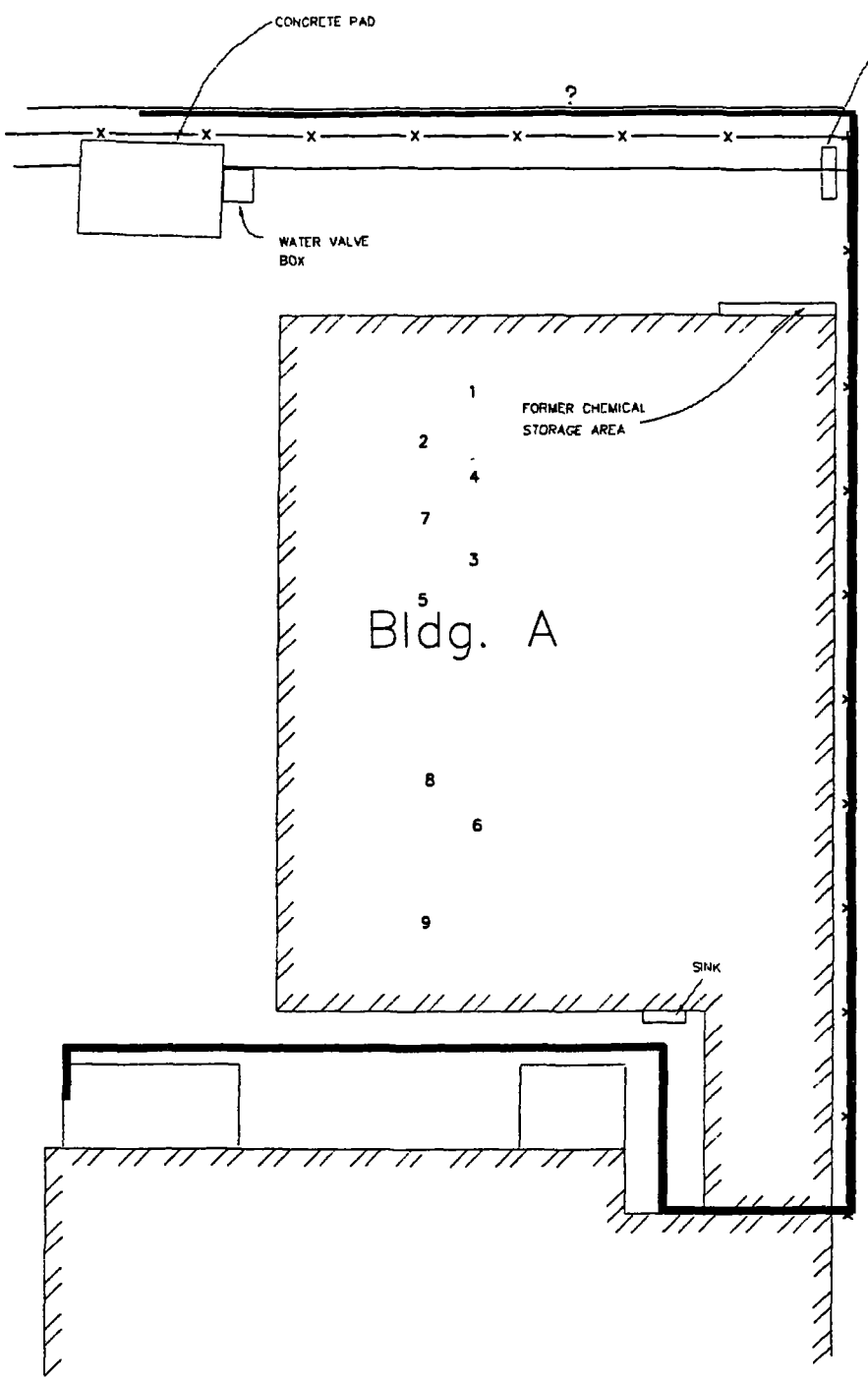
**Suspect Asbestos Sampling Location Plan**

Date: 8/04

Job No.: 16135-00

1613500-003 DWG CAS 8/6/04

**Figure 2A**




LEGEND:

# Asbestos Sampling Location (Approximate) and Number

Site Boundary

Building

NOTES:

1. BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0 05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000 35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

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

N

Scale in Feet

0 20 40

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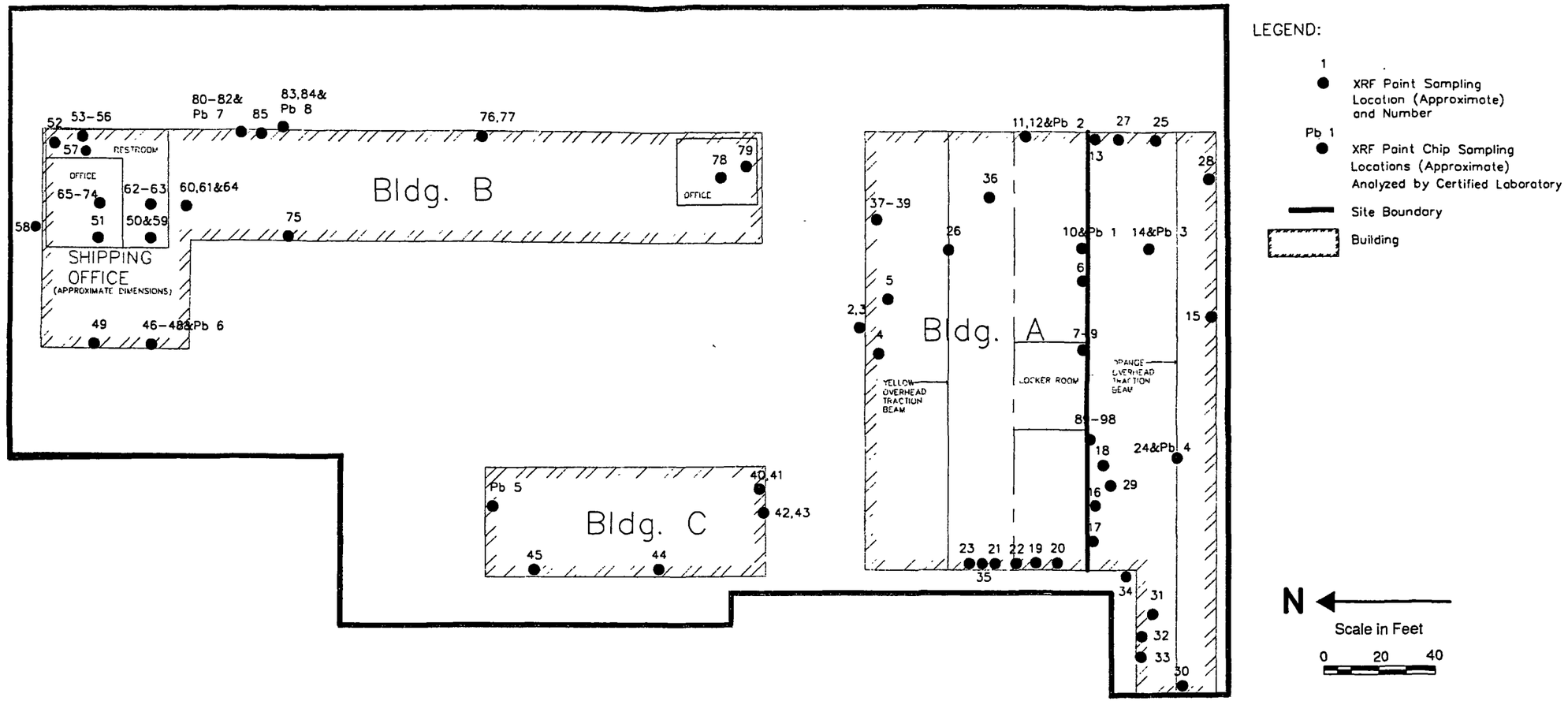
Suspect Asbestos Sampling Location Plan
Building A-Roof

| HC PROJECT NO.: 16135-00 | DATE: August 6, 2004 | 1613500-002 DWG CAS 8/6/04 | Figure 2B |
|---|---|---|---|




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 #57584DH, 0 05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47 247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000 35 NAD83

2. DATE OF SURVEY JANUARY 17, 2003

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

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**Potential Lead-Based Paint Sampling Location Plan**

Date: 8/04

Job No.: 16135-00

1613500-001 DWG CAS 8/6/04

**Figure 3**

# APPENDIX A
# ASBESTOS ANALYTICAL RESULTS

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159 Pasadena Avenue, South Pasadena, CA 91030
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|---|---|---|---|
| Attn | K Roberts<br>Hart Crowser<br>301 East Ocean<br>Suite 1950<br>Long Beach, CA 90802 | Customer ID | HART77 |
| | | Customer PO | 6999-06 T10 |
| | | Received. | 05/09/03 9 00 AM |
| Fax | (562) 733-1750 Phone. 562-733-1740 | EMSL Order | 320300177 |
| Project | **6999.06 Task 10/Paccar-Torrance** | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-1<br>*320300177-0001* | Bldg A Silver roof mastic | Silver/Black<br>Non-Fibrous<br>Heterogeneous | Teased | | 92% Non-fibrous (other) | 8% Chrysotile |
| ACM-2<br>*320300177-0002* | Bldg A Silver roof mastic | | Positive Stop | | | Not Analyzed |
| ACM-3<br>*320300177-0003* | Bldg A Silver roof mastic | | Positive Stop | | | Not Analyzed |
| ACM-4<br>*320300177-0004* | Bldg A Black roof Mastic | Silver/Black<br>Non-Fibrous<br>Heterogeneous | Teased | | 93% Non-fibrous (other) | 7% Chrysotile |
| ACM-5<br>*320300177-0005* | Bldg A Black roof Mastic | | Positive Stop | | | Not Analyzed |
| ACM-6<br>*320300177-0006* | Bldg A Black roof Mastic | | Positive Stop | | | Not Analyzed |
| ACM-7<br>*320300177-0007* | Bldg A Grey roof mastic | Black<br>Non-Fibrous<br>Homogeneous | Teased | 7% Cellulose | 90% Non-fibrous (other) | 3% Chrysotile |
| ACM-8<br>*320300177-0008* | Bldg A Grey roof mastic | | Positive Stop | | | Not Analyzed |
| ACM-9<br>*320300177-0009* | Bldg A Grey roof mastic | | Positive Stop | | | Not Analyzed |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

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| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-10<br>320300177-0010 | Bldg A white mastic (wood ext cabinet) | Cream<br>Non-Fibrous<br>Heterogeneous | Teased | | 95% Non-fibrous (other) | 5% Chrysotile |
| ACM-11<br>320300177-0011 | Bldg A white mastic (wood ext cabinet) | | Positive Stop | | | Not Analyzed |
| ACM-12<br>320300177-0012 | Bldg A white mastic (wood ext cabinet) | | Positive Stop | | | Not Analyzed |
| ACM-13T<br>320300177-0013 | Bldg C 12" VFT Mastic | Tan<br>Non-Fibrous<br>Homogeneous | Teased | | 97% Non-fibrous (other) | 3% Chrysotile |
| ACM-13M<br>320300177-0058 | Bldg C 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-14T<br>320300177-0014 | Bldg C 12" VFT Mastic | | Positive Stop | | | Not Analyzed |
| ACM-14M<br>320300177-0059 | Bldg C 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-15T<br>320300177-0015 | Bldg C 12" VFT Mastic | | Positive Stop | | | Not Analyzed |
| ACM-15M<br>320300177-0060 | Bldg C 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |

Analyst(s)

Duong Kieu-anh (69)

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| Project | **6999.06 Task 10/Paccar-Torrance** | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-16T<br>*320300177-0016* | Bldg C brown 12" VFT Mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 98% Non-fibrous (other) | 2% Chrysotile |
| ACM-16M<br>*320300177-0061* | Bldg C brown 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-17T<br>*320300177-0017* | Bldg C brown 12" VFT Mastic | | Positive Stop | | | Not Analyzed |
| ACM-17M<br>*320300177-0062* | Bldg C brown 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-18T<br>*320300177-0018* | Bldg C brown 12" VFT Mastic | | Positive Stop | | | Not Analyzed |
| ACM-18M<br>*320300177-0063* | Bldg C brown 12" VFT Mastic | Yellow<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-19CB<br>*320300177-0019* | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-19M<br>*320300177-0064* | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-20CB<br>*320300177-0020* | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

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| | | Received | 05/09/03 9 00 AM |
| Fax | (562) 733-1750 Phone 562-733-1740 | EMSL Order | 320300177 |
| Project: | **6999.06 Task 10/Paccar-Torrance** | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-20M<br>320300177-0065 | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | **None Detected** |
| ACM-21CB<br>320300177-0021 | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | **None Detected** |
| ACM-21M<br>320300177-0066 | Bldg C borwn basecove / mastic | Brown<br>Non-Fibrous<br>Homogeneous | Teased | | 98% Non-fibrous (other) | **2% Chrysotile** |
| ACM-22<br>320300177-0022 | Bldg C white window putty | Beige<br>Non-Fibrous<br>Heterogeneous | Teased<br>Dissolved | | 98% Non-fibrous (other) | **2% Chrysotile** |
| ACM-23<br>320300177-0023 | Bldg C white window putty | | Positive Stop | | | **Not Analyzed** |
| ACM-24<br>320300177-0024 | Bldg C white window putty | | Positive Stop | | | **Not Analyzed** |
| ACM-25<br>320300177-0025 | Bldg C white 12" spline ceiling tile | Brown<br>Fibrous<br>Homogeneous | Teased | 3% Glass<br>90% Cellulose | 7% Perlite | **None Detected** |
| ACM-26<br>320300177-0026 | Bldg C white 12" spline ceiling tile | White/Brown<br>Fibrous<br>Heterogeneous | Teased | 3% Glass<br>90% Cellulose | 7% Non-fibrous (other) | **None Detected** |
| ACM-27<br>320300177-0027 | Bldg C white 12" spline ceiling tile | White/Brown<br>Fibrous<br>Heterogeneous | Teased | 3% Glass<br>90% Cellulose | 7% Non-fibrous (other) | **None Detected** |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

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| Fax | (562) 733-1750 Phone 562-733-1740 | EMSL Order | 320300177 |
| Project | **6999.06 Task 10/Paccar-Torrance** | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-28<br>*320300177-0028* | Bldg C white roofing material | Cream/White<br>Fibrous<br>Heterogeneous | Teased | 20% Glass | 80% Non-fibrous (other) | None Detected |
| ACM-29<br>*320300177-0029* | Bldg C white roofing material | Cream/White<br>Fibrous<br>Heterogeneous | Teased | 20% Glass | 80% Non-fibrous (other) | None Detected |
| ACM-30<br>*320300177-0030* | Bldg C white roofing material | Cream/White<br>Fibrous<br>Heterogeneous | Teased | 20% Glass | 80% Non-fibrous (other) | None Detected |
| ACM-31<br>*320300177-0031* | Bldg A office joint compound | Beige<br>Non-Fibrous<br>Heterogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-32<br>*320300177-0032* | Bldg A office joint compound | Beige<br>Non-Fibrous<br>Heterogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-33<br>*320300177-0033* | Bldg A office joint compound | Beige<br>Non-Fibrous<br>Heterogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-34<br>*320300177-0034* | Bldg A SE window putty | Gray<br>Non-Fibrous<br>Heterogeneous | Teased | | 98% Non-fibrous (other) | 2% Chrysotile |
| ACM-35<br>*320300177-0035* | Bldg A SE window putty | | Positive Stop | | | Not Analyzed |
| ACM-36<br>*320300177-0036* | Bldg A SE window putty | | Positive Stop | | | Not Analyzed |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

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| Fax | (562) 733-1750 Phone: 562-733-1740 | EMSL Order | 320300177 |
| Project | 6999.06 Task 10/Paccar-Torrance | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | % Fibrous | % Non-Fibrous | % Type |
|---|---|---|---|---|---|---|
| | | | | Non-Asbestos | | Asbestos |
| ACM-37<br>320300177-0037 | Bldg A samples deleted | | Samples Deleted | | | Not Analyzed |
| ACM-38<br>320300177-0038 | Bldg A samples deleted | | Samples Deleted | | | Not Analyzed |
| ACM-39<br>320300177-0039 | Bldg A samples deleted | | Samples Deleted | | | Not Analyzed |
| ACM-40<br>320300177-0040 | Bldg A Grey roof mastic | Gray/Black<br>Non-Fibrous<br>Homogeneous | Teased | | 90% Non-fibrous (other) | 10% Chrysotile |
| ACM-41<br>320300177-0041 | Bldg A Grey roof mastic | | Positive Stop | | | Not Analyzed |
| ACM-42<br>320300177-0042 | Bldg A Grey roof mastic | | Positive Stop | | | Not Analyzed |
| ACM-43<br>320300177-0043 | Bldg A E/SE window putty | Cream<br>Non-Fibrous<br>Heterogeneous | Teased<br>Dissolved | | 100% Non-fibrous (other) | None Detected |
| ACM-44<br>320300177-0044 | Bldg A E/SE window putty | Cream<br>Non-Fibrous<br>Heterogeneous | Teased<br>Dissolved | | 100% Non-fibrous (other) | None Detected |
| ACM-45<br>320300177-0045 | Bldg A E/SE window putty | Cream<br>Non-Fibrous<br>Heterogeneous | Teased<br>Dissolved | | 100% Non-fibrous (other) | None Detected |

Analyst(s)

*Duong Kieu-anh (69)*

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| Project | 6999.06 Task 10/Paccar-Torrance | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| Sample | Location | Appearance | Treatment | Non-Asbestos % Fibrous | Non-Asbestos % Non-Fibrous | Asbestos % Type |
|---|---|---|---|---|---|---|
| ACM-46<br>320300177-0046 | Bldg C plaster | White<br>Non-Fibrous<br>Homogeneous | Crushed<br>Dissolved | | 100% Non-fibrous (other) | None Detected |
| ACM-47<br>320300177-0047 | Bldg C plaster | Beige<br>Non-Fibrous<br>Heterogeneous | Crushed<br>Dissolved | | 100% Non-fibrous (other) | None Detected |
| ACM-48<br>320300177-0048 | Bldg C plaster | Beige<br>Non-Fibrous<br>Homogeneous | Crushed<br>Dissolved | | 100% Non-fibrous (other) | None Detected |
| ACM-49<br>320300177-0049 | Bldg C Skim Coat | Cream<br>Non-Fibrous<br>Homogeneous | Crushed<br>Dissolved | | 100% Non-fibrous (other) | <1% Chrysotile |
| ACM-50<br>320300177-0050 | Bldg C Skim Coat | | Positive Stop | | | Not Analyzed |
| ACM-51<br>320300177-0051 | Bldg C Skim Coat | | Positive Stop | | | Not Analyzed |
| ACM-52<br>320300177-0052 | bldg C drywall/ tape/ compound (ship off) | Beige/Brown/White<br>Fibrous<br>Heterogeneous | Teased | 10% Cellulose | 90% Non-fibrous (other) | <1% Chrysotile |
| ACM-53<br>320300177-0053 | bldg C drywall/ tape/ compound (ship off) | | Positive Stop | | | Not Analyzed |
| ACM-54<br>320300177-0054 | bldg C drywall/ tape/ compound (ship off) | | Positive Stop | | | Not Analyzed |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos Negative PLM results cannot be guaranteed Samples reported as <1% or *none* detected should be tested with TEM The above test report relates only to the items tested This report may not be reproduced except in full, without written approval by LA Testing Inc The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government

*Analysis performed by LA Testing (NVLAP #200232-0)*

PLM-1

LA Testing
159 Pasadena Avenue, South Pasadena, CA 91030
Phone: (323) 254-0950 Fax: (323) 254-9882 Email: pasadenalab@latesting.com

| | | | |
|---|---|---|---|
| Attn | K Roberts<br>Hart Crowser<br>301 East Ocean<br>Suite 1950<br>Long Beach, CA 90802 | Customer ID | HART77 |
| | | Customer PO | 6999-06 T10 |
| | | Received | 05/09/03 9 00 AM |
| Fax | (562) 733-1750 Phone 562-733-1740 | EMSL Order | 320300177 |
| Project | 6999.06 Task 10/Paccar-Torrance | EMSL Project ID | |
| | | Analysis Date | 5/15/2003 |

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

| | | | | Non-Asbestos | | Asbestos |
|---|---|---|---|---|---|---|
| Sample | Location | Appearance | Treatment | % Fibrous | % Non-Fibrous | % Type |
| ACM-55<br>320300177-0055 | Bldg C stucco (tan) | Cream<br>Non-Fibrous<br>Homogeneous | Crushed<br>Dissolved | | 100% Non-fibrous (other) | <1% Chrysotile |
| ACM-56<br>320300177-0056 | Bldg C stucco (tan) | | Positive Stop | | | Not Analyzed |
| ACM-57<br>320300177-0057 | Bldg C stucco (tan) | | Positive Stop | | | Not Analyzed |
| ACM-58<br>320300177-0067 | Bldg C gray roof mastic | Gray<br>Non-Fibrous<br>Homogeneous | Teased | | 100% Non-fibrous (other) | None Detected |
| ACM-59<br>320300177-0068 | Bldg C gray roof mastic | Gray/Black<br>Non-Fibrous<br>Heterogeneous | Teased | | 92% Non-fibrous (other) | 8% Chrysotile |
| ACM-60<br>320300177-0069 | Bldg C gray roof mastic | | Positive Stop | | | Not Analyzed |

Analyst(s)

*Duong Kieu-anh (69)*

or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos Negative PLM results cannot be guaranteed Samples reported as <1% or none detected should be tested with TEM The above test report relates only to the items tested This report may not be reproduced, except in full without written approval by LA Testing, Inc The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government

Analysis performed by LA Testing (NVLAP #200232-0)

PLM-1



THIS IS THE LAST PAGE OF THE REPORT.

# CHAIN OF CUSTODY

3203001177

159 Pasadena Ave., South Pasadena, CA 91030

LA TESTING

| | | | |
|---|---|---|---|
| Date: | 5-8-03 | LA TESTING - Bill To. | |
| Your Name | Kevin Roberts | Name: | (SAME) |
| Company: | Hart Crowser | Company: | |
| Address | 3016-Ocean Blvd.-1950 | Address: | |
| City State Zip | Long Beach, CA 90802 | City. State Zip | |
| Phone Results To | | Purchase Order # | 6999.06 T10 |
| Fax Results To: | 562-733-1750 | LA TESTING SALES REP: | Steven Parks |

email KEVIN.ROBERTS@HARTCROWSER.COM

Project Name / Number: PACCAR - TORRANCE 6999.06 Task 10

Requested Analysis Place (X)

| ASBESTOS | RUSH | 6 HR | 12 HR | 24 HR | 48 HR | 72 HR | 5 DAY | > 6 DAYS |
|---|---|---|---|---|---|---|---|---|

**TEM AIR**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| EPA LEVEL II | --- | | | | | | |
| AHERA | --- | | | | | | |
| NIOSH 7402 | --- | | | | | | |

**PCM AIR**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NIOSH OSHA | | | | | | | |

**PLM BULK** ANALYZE ACM TO 1ST POSITIVE

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| EPA 600/R-93/116 | | | | | | | X | |
| EPA Point Count | | | | | | | | |
| GRAVIMETRIC | | | | | | | | |

**TEM BULK**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DropMount(qualitative) | | | | | | | | |
| Conventional | --------- | | | | | | | |
| Chatfield - Gravimetric | --------- | --------- | | | | | | |
| Microvac (ASTM) | --------- | | | | | | | |
| Microvac (qualitative) | --------- | | | | | | | |
| Wipes (qualitative) | | | | | | | | |
| Wipes (quantitative) | --------- | | | | | | | |

**TEM -WATER**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Drinking Water | --------- | --------- | | | | | | |
| Waste Water, Sludge | --------- | --------- | | | | | | |
| Solvents, Chemicals, Oil | --------- | --------- | | | | | | |

ARCHIVE LEAD WIPES (LD1-3) UNTIL FURTHER NOTICE

| LEAD | RUSH | 6 HR | 12 HR | 24 HR | 48 HR | 72 HR | 5 DAY | > 6 DAYS |
|---|---|---|---|---|---|---|---|---|
| FLAME AA | | | | | | | X | |

Client Sample Numbers: ACM 1-60 ; PB 1-10, LD 1-3 Total Number Of Samples: 73

| | | | |
|---|---|---|---|
| Relinquished By | Kevin Roberts | Date: 5-8-03 | Time 15:05 |
| Received By | | Date | Time. |
| Relinquished By | | Date | Time |
| Received By | | Date | Time |

320300177

Project Name/Number: PACCAR - Torrance 6999-06

Page 1 of 2

| SAMPLE DATE | SAMPLE NUMBER | LOCATION | VOLUME (if applicable) |
|---|---|---|---|
| 7-7-03 | ACM 1 | Bldg A, Silver Roof Mastic | |
| | ACM 2 | | |
| | ACM 3 | | |
| | ACM 4 | Black Roof Mastic | |
| | ACM 5 | | |
| | ACM 6 | | |
| | ACM 7 | Grey Roof Mastic | |
| | ACM 8 | | |
| | ACM 9 | | |
| | ACM 10 | White Mastic (wall ext Cabinet) | |
| | ACM 11 | | |
| | ACM 12 | | |
| | ACM 13 | Bldg C ~~[illegible]~~ 12" VFT/mastic | 150 SF |
| | ACM 14 | | |
| | ACM 15 | | |
| | ACM 16 | Brown ~~[illegible]~~ 12" VFT/mastic | 150 SF |
| | ACM 17 | | |
| | ACM 18 | | |
| | ACM 19 | Brown Cove/mastic | 12 SF |
| | ACM 20 | | |
| | ACM 21 | | |
| | ACM 22 | white window putty | 5 SF |
| | ACM 23 | | |
| | ACM 24 | | |
| | ACM 25 | White 12" Spline Ceiling Tile | 150 SF |
| | ACM 26 | | |
| | ACM 27 | | |
| | ACM 28 | White Roofing material | |
| | ACM 29 | | |
| | ACM 30 | | |
| 5-8-03 | ACM 31 | Bldg A office joint compound | 5 SF |
| | ACM 32 | | |

PACCAR 01637

320300177

Project Name/Number PACCAR-TM 6999-06 Page 2 of 2

| SAMPLE DATE | SAMPLE NUMBER | LOCATION | VOLUME (If Applicable) |
|---|---|---|---|
| 5-8-03 | ACM 33 | Bldg A office - joint compound | |
| | ACM 34 | SE window - window putty | 50 SF |
| | ACM 35 | | |
| | ACM 36 | | |
| | ACM 37 | ~~Bldg. B - roof material~~ Samples Deleted | |
| | ACM 38 | | |
| | ACM 39 | | |
| | ACM 40 | gray roof mastic | 150 SF |
| | ACM 41 | | |
| | ACM 42 | | |
| | ACM 43 | E/SE Window - window putty | |
| | ACM 44 | | |
| | ACM 45 | | |
| | ACM 46 | Bldg C plaster | 500 SF |
| | ACM 47 | | |
| | ACM 48 | | |
| | ACM 49 | skim coat | |
| | ACM 50 | | |
| | ACM 51 | | |
| | ACM 52 | drywall/tape/compound (ship ofc) | 4000 SF |
| | ACM 53 | | |
| | ACM 54 | | |
| | ACM 55 | stucco (tan) (ship ofc) | 600 SF |
| | ACM 56 | | |
| | ACM 57 | | |
| | ACM 58 | gray roof mastic | |
| | ACM 59 | | |
| | ACM 60 | | |

# APPENDIX B
# LEAD-BASED PAINT ANALYTICAL RESULTS

159 Pasadena Avenue
South Pasadena, CA 91030
Phone (800) 303-0047 Fax (323) 254-9982

LA TESTING

**Date Received:** 9-May-03
**Date Analyzed:** 12-May-03
**Date Issued:** 12-May-03
**Reference Number:** 320300185
**Attention:** K Roberts

**Hart Crowser**
301 E Ocean Blvd, Ste 1950
Suite 2460
Long Beach, CA 90832

# Atomic Absorption Spectrometry (AAS)
# Lead (Pb) in Paint Samples
# Method EPA SW846-3050-7420

**Project:** 3999 08 task 10/ Paccar - Torrance

| Sample ID | Sample Weight g | Volume ml | Dilution Factor | Concentration mg/l | Results | |
|---|---|---|---|---|---|---|
| | | | | | mg/kg (ppm) | % weight |
| PB1 | 0.2108 | 50 | 40 | [illegible] | 125511 | 12.551 |
| PB2 | 0.2272 | 50 | 25 | [illegible] | 89459 | 8.946 |
| PB3 | 0.2372 | 50 | 30 | [illegible] | 101623 | 10.162 |
| PB4 | 0.2159 | 50 | 30 | [illegible] | 112969 | 11.297 |
| PB5 | 0.2302 | 50 | 10 | [illegible] | 6451 | 0.645 |
| PB6 | [illegible] | 50 | 10 | [illegible] | 8242 | 0.824 |
| PB7 | 0.2151 | 50 | 10 | [illegible] | 7555 | 0.755 |
| PB8 | 0.2158 | 50 | 10 | [illegible] | 7623 | 0.762 |
| PB9 | 0.2439 | 50 | 1 | [illegible] | 607 | 0.061 |
| PB10 | [illegible] | 50 | 1 | [illegible] | 421 | 0.042 |

*mg/kg-milligrams per kilogram*

*ppm-parts per million*

limit of detection (LD) =200ppm with sample size of 2 g

MDL for LA Testing=0.005% with sample size of 2 g

I M = Insufficient Material For Analysis

Approved Signature

Report generated 5/12/2003

320300165

PAGE 1 OF 1

| WELL DATE | SAMPLE NUMBER | LOCATION | VOLUME (IF APPLICABLE) |
|---|---|---|---|
| 1-4-03 | Pb 1 | Building A, Orange metal building frame (10) | |
| | Pb 2 | Building A, Yellow concrete curbing stripe (12) | |
| | Pb 3 | Building A, Orange corner pole protection (14) | |
| | Pb 4 | Bldg A, Orange metal overhead traction beam (24) | |
| | Pb 5 | Bldg A, white exterior metal wall (41) | |
| | Pb 6 | Bldg C, yellow wood door facel (47) | |
| | Pb 7 | Bldg C, Tan metal door frame (81) | |
| | Pb 8 | Bldg C, Tan metal stair rail (83 & 84) | |
| | Pb 9 | Bldg B - white metal roof | |
| | Pb 10 | Bldg C - white metal roof | |

PACCAR 01641

# CHAIN OF CUSTODY

159 Pasadena Ave., South Pasadena, CA 91030

LA TESTING

| | | | |
|---|---|---|---|
| Date | 5-8-03 | LA TESTING Bill To | |
| Your Name | Kevin Roberts | Name | Same |
| Company | Hart Crowser | Company | |
| Address | 3016 - Ocean Blvd - 1950 | Address | |
| City State Zip | Long Beach, CA 90802 | City State Zip | |
| Phone Results To | | Purchase Order # | 6999.06 T10 |
| Fax Results To | 562-733-1750 | LA TESTING SALES REP | Steven Parks |

email Kevin.Roberts@hartcrowser.com

Project Name Number PACCAR - TORRANCE 6999.06 Task 10

Requested Analysis Place (x)

| ASBESTOS | RUSH | 6 HR | 12 HR | 24 HR | 48 HR | 72 HR | 5 DAY | > 6 DAYS |
|---|---|---|---|---|---|---|---|---|
| **TEM AIR** | | | | | | | | |
| EPA LEVEL II | --- | | | | | | | |
| AHERA | --- | | | | | | | |
| NIOSH 7402 | --- | | | | | | | |
| **PCM AIR** | | | | | | | | |
| NIOSH OSHA | | | | | | | | |
| **PLM BULK** ANALYZE ACM TO 1ST POSITIVE | | | | | | | | |
| EPA 600 R-93/116 | | | | | | | X | |
| EPA Point Count | | | | | | | | |
| GRAVIMETRIC | | | | | | | | |
| **TEM BULK** | | | | | | | | |
| DropMount(qualitative) | | | | | | | | |
| Conventional | ------- | | | | | | | |
| Chatfield - Gravimetric | ------ | ------ | | | | | | |
| Microvac (ASTM) | -------- | | | | | | | |
| Microvac (qualitative) | -------- | | | | | | | |
| Wipes (qualitative) | | | | | | | | |
| Wipes (quantitative) | ------ | | | | | | | |
| **TEM -WATER** | | | | | | | | |
| Drinking Water | ------ | ------ | | | | | | |
| Waste Water, Sludge | ------ | ------ | | | | | | |
| Solvents, Chemicals, Oil | ------ | ------ | | | | | | |

ARCHIVE LEAD WIPES (LD1-3) UNTIL FURTHER NOTICE

| LEAD | RUSH | 6 HR | 12 HR | 24 HR | 48 HR | 72 HR | 5 DAY | > 6 DAYS |
|---|---|---|---|---|---|---|---|---|
| FLAME AA | | | | | | | X | |

Client Sample Numbers: ACM1-6, PB1-10, LD1-3 Total Number Of Samples 19

| | | | |
|---|---|---|---|
| Relinquished By | Kevin Roberts | Date 5-8-03 | Time 3:15 |
| Received By | [illegible] | Date 5/12 | Time 9:00 |
| Relinquished By | | Date | Time |
| Received By | | Date | Time |

PACCAR 01642

Serial #XL309-U390D4658 Site  Date 5/7/103 to 5/15/103
Ranges (NEG<INC<POS). Device PC5

| No | Site | XLNo | Insp | Flr | Room | Side | Strc | Feat | Cod | Sub | Clr | PbL(mg/cm²) | RES | PbK | Combined | DI | Ssec | Date | Time | Note | Cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 1 | | | Shutter Cal 1 | | | | | | | 0.67 ± 0.00 | | 0.0 ± 0.1 | 0.0 ± 0.0 | 0.0 | 164.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 2 | | 2 | | | | | | | | | | 0.00 ± 0.07 | NEG | 0.0 ± 1.2 | 0.0 ± 0.1 | 1.0 | 10.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 3 | | 3 | | | | | | | | | | 0.10 ± 0.08 | NEG | 0.5 ± 0.8 | 0.1 ± 0.1 | 1.8 | 20.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 4 | | 4 | | | | | | | | | | 0.11 ± 0.21 | NEG | 0.5 ± 1.9 | 0.1 ± 0.2 | 1.8 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 5 | | 5 | | | | | | | | | | 0.13 ± 0.09 | NEG | -0.1 ± 0.8 | -0.1 ± 0.8 | 1.4 | 12.9 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 6 | | 6 | | | | | | | | | | 0.05 ± 0.08 | NEG | 0.6 ± 3.4 | 0.1 ± 0.1 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 7 | | 7 | | | | | | | | | | 0.00 ± 0.02 | NEG | 0.2 ± 1.4 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 8 | | 8 | | | | | | | | | | 2.65 ± 0.63 | POS | 3.9 ± 2.2 | 2.7 ± 0.6 | 1.3 | 5.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 9 | | 9 | | | | | | | | | | 0.00 ± 0.06 | NEG | -1.8 ± 2.9 | 0.0 ± 0.1 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 10 | | 10 | | | | | | | | | | 2.97 ± 0.87 | POS | 3.2 ± 3.5 | 3.0 ± 0.9 | 1.2 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 11 | | 11 | | | | | | | | | | 2.61 ± 0.63 | POS | 3.8 ± 2.8 | 2.6 ± 0.6 | 1.3 | 5.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 12 | | 12 | | | | | | | | | | 1.76 ± 0.44 | POS | 1.9 ± 1.8 | 1.8 ± 0.4 | 1.5 | 8.0 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 13 | | 13 | | | | | | | | | | 1.62 ± 0.40 | POS | 2.3 ± 1.4 | 1.6 ± 0.4 | 1.8 | 10.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 14 | | 14 | | | | | | | | | | 3.78 ± 0.60 | POS | 4.9 ± 2.0 | 3.8 ± 0.6 | 1.3 | 10.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 15 | | 15 | | | | | | | | | | 0.00 ± 0.02 | NEG | -1.0 ± 1.3 | 0.0 ± 0.0 | 1.0 | 10.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 16 | | 16 | | | | | | | | | | 0.00 ± 0.02 | NEG | -0.7 ± 2.2 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 17 | | 17 | | | | | | | | | | 0.00 ± 0.02 | NEG | -0.4 ± 1.6 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 18 | | 18 | | | | | | | | | | 0.00 ± 0.02 | NEG | -0.3 ± 1.8 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 19 | | 19 | | | | | | | | | | 0.11 ± 0.18 | NEG | -0.3 ± 2.8 | 0.1 ± 0.2 | 1.1 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 20 | | 20 | | | | | | | | | | 3.38 ± 0.71 | POS | 5.4 ± 2.8 | 3.4 ± 0.7 | 1.2 | 5.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 21 | | 21 | | | | | | | | | | 0.05 ± 0.20 | NEG | 0.1 ± 2.3 | 0.1 ± 0.2 | 1.2 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 22 | | 22 | | | | | | | | | | 0.01 ± 0.15 | NEG | -1.5 ± 3.0 | 0.0 ± 0.2 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 23 | | 23 | | | | | | | | | | 0.00 ± 0.02 | NEG | 0.0 ± 1.6 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 24 | | 24 | | | | | | | | | | 1.39 ± 0.23 | POS | 1.3 ± 1.4 | 1.4 ± 0.2 | 1.1 | 12.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 25 | | 25 | | | | | | | | | | 0.01 ± 0.22 | NEG | -1.2 ± 2.7 | 0.0 ± 0.2 | 1.4 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 26 | | 26 | | | | | | | | | | 2.07 ± 0.46 | POS | 2.3 ± 2.3 | 2.1 ± 0.5 | 1.1 | 5.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 27 | | 27 | | | | | | | | | | 0.00 ± 0.08 | NEG | -0.9 ± 1.0 | -0.9 ± 1.0 | 1.0 | 8.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 28 | | 28 | | | | | | | | | | 0.13 ± 0.31 | NEG | 0.7 ± 2.7 | 0.1 ± 0.3 | 1.7 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 29 | | 29 | | | | | | | | | | 0.05 ± 0.13 | NEG | 0.7 ± 0.7 | 0.1 ± 0.2 | 4.8 | 29.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 30 | | 30 | | | | | | | | | | >>5.0 ± 1.09 | POS | 9.2 ± 4.3 | 5.1 ± 1.1 | 1.3 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 31 | | 31 | | | | | | | | | | 0.07 ± 0.28 | NEG | -0.2 ± 1.5 | 0.1 ± 0.3 | 1.3 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 32 | | 32 | | | | | | | | | | 0.04 ± 0.21 | NEG | -2.0 ± 2.7 | 0.0 ± 0.2 | 1.2 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 33 | | 33 | | | | | | | | | | 0.06 ± 0.17 | NEG | 1.0 ± 2.0 | 0.1 ± 0.2 | 1.5 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 34 | | 34 | | | | | | | | | | 0.06 ± 0.33 | NEG | -0.6 ± 3.2 | 0.1 ± 0.3 | 1.6 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 35 | | 35 | | | | | | | | | | 0.11 ± 0.28 | NEG | 0.1 ± 1.4 | 0.1 ± 0.3 | 5.3 | 10.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 36 | | 36 | | | | | | | | | | 0.01 ± 0.02 | NEG | 0.2 ± 1.8 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 37 | | 37 | | | | | | | | | | 1.07 ± 0.14 | POS | 1.4 ± 0.6 | 1.1 ± 0.1 | 1.0 | 22.0 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 38 | | 38 | | | | | | | | | | 0.01 ± 0.23 | NEG | -0.8 ± 3.1 | 0.0 ± 0.2 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 39 | | 39 | | | | | | | | | | 0.97 ± 0.15 | POS | 1.2 ± 0.9 | 1.0 ± 0.2 | 1.3 | 24.4 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 40 | | 40 | | | | | | | | | | 0.00 ± 0.09 | NEG | 0.2 ± 0.8 | 0.0 ± 0.1 | 1.0 | 22.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 41 | | 41 | | | | | | | | | | 0.43 ± 0.30 | NEG | 0.4 ± 1.1 | 0.4 ± 0.3 | 2.7 | 10.4 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 42 | | 42 | | | | | | | | | | 0.01 ± 0.03 | NEG | -1.1 ± 2.5 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 43 | | 43 | | | | | | | | | | 0.14 ± 0.34 | NEG | -1.8 ± 3.1 | 0.1 ± 0.3 | 7.9 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 44 | | 44 | | | | | | | | | | 0.04 ± 0.27 | NEG | 0.0 ± 1.9 | 0.0 ± 0.3 | 1.5 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 45 | | 45 | | | | | | | | | | 0.30 ± 0.53 | NEG | 0.9 ± 1.2 | 0.3 ± 0.5 | 5.7 | 12.8 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 46 | | 46 | | | | | | | | | | 0.01 ± 0.03 | NEG | -0.2 ± 0.7 | -0.2 ± 0.7 | 2.5 | 12.9 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 47 | | 47 | | | | | | | | | | 1.47 ± 0.30 | POS | 2.5 ± 1.0 | 1.5 ± 0.3 | 1.5 | 12.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 48 | | 48 | | | | | | | | | | 0.08 ± 0.29 | NEG | -0.4 ± 1.4 | 0.1 ± 0.3 | 4.3 | 8.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 49 | | 49 | | | | | | | | | | 1.36 ± 0.22 | POS | 1.8 ± 1.4 | 1.4 ± 0.2 | 1.0 | 12.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 50 | | 50 | | | | | | | | | | 0.82 ± 0.13 | POS | 1.8 ± 0.8 | 1.8 ± 0.8 | 1.3 | 24.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 51 | | 51 | | | | | | | | | | 0.37 ± 0.30 | NEG | 1.0 ± 1.4 | 0.4 ± 0.3 | 2.2 | 8.0 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 52 | | 52 | | | | | | | | | | 0.02 ± 0.26 | NEG | -0.6 ± 1.5 | 0.0 ± 0.3 | 2.1 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 53 | | 53 | | | | | | | | | | >>5.0 ± 1.28 | POS | 26.3 ± 8.3 | 26.3 ± 8.3 | 2.1 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 54 | | 54 | | | | | | | | | | 0.02 ± 0.15 | NEG | 1.0 ± 0.7 | 0.0 ± 0.2 | 2.6 | 24.8 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 55 | | 55 | | | | | | | | | | >>5.0 ± 1.22 | POS | 20.0 ± 6.6 | 20.0 ± 6.6 | 1.7 | 3.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 56 | | 56 | | | | | | | | | | 0.04 ± 0.16 | NEG | 0.3 ± 2.3 | 0.0 ± 0.2 | 1.0 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 57 | | 57 | | | | | | | | | | 0.01 ± 0.17 | NEG | 0.2 ± 1.3 | 0.0 ± 0.2 | 1.8 | 10.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 58 | | 58 | | | | | | | | | | 0.11 ± 0.43 | NEG | 0.6 ± 3.0 | 0.1 ± 0.4 | 4.5 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 59 | | 59 | | | | | | | | | | 0.57 ± 0.23 | NEG | 0.8 ± 1.5 | 0.6 ± 0.2 | 1.5 | 8.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 60 | | 60 | | | | | | | | | | 0.03 ± 0.23 | NEG | -0.9 ± 2.2 | 0.0 ± 0.2 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 61 | | 61 | | | | | | | | | | 0.97 ± 0.20 | POS | 0.9 ± 0.8 | 1.0 ± 0.2 | 1.7 | 21.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 62 | | 62 | | | | | | | | | | 0.00 ± 0.02 | NEG | 0.0 ± 1.6 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 63 | | 63 | | | | | | | | | | 0.11 ± 0.28 | NEG | -1.0 ± 1.2 | 0.1 ± 0.3 | 6.3 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 64 | | 64 | | | | | | | | | | 0.01 ± 0.04 | NEG | 0.0 ± 2.4 | 0.0 ± 0.0 | 1.6 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |

Site Date 5/7/103 to 5/15/103
Ranges (NEG<INC<POS) Device PCS



| No | Site | XLNo | Insp | Flr | Room | Side | Strc | Feat | Cnd | Sub | Clr | PbL(mg/cm²) | RES | PbK | Combined | DI | Ssec | Date | Time | Note | Cycle |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 65 | | 65 | | | | | | | | | | 0.02 ± 0.23 | NEG | 0.4 ± 1.2 | 0.0 ± 0.2 | 2.0 | 8.1 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 66 | | 66 | | | | | | | | | | 0.00 ± 0.01 | NEG | 0.2 ± 1.2 | 0.0 ± 0.0 | 1.0 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 67 | | 67 | | | | | | | | | | 0.23 ± 1.03 | INCOM | -0.4 ± 6.7 | 0.2 ± 1.0 | 4.4 | 1.0 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 68 | | 68 | | | | | | | | | | 0.35 ± 0.25 | NEG | 0.8 ± 1.9 | 0.4 ± 0.3 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 69 | | 69 | | | | | | | | | | 0.01 ± 0.02 | NEG | 0.2 ± 1.8 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 70 | | 70 | | | | | | | | | | 0.00 ± 0.02 | NEG | 0.1 ± 1.3 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 71 | | 71 | | | | | | | | | | 0.08 ± 0.19 | NEG | -0.3 ± 1.6 | 0.1 ± 0.2 | 5.1 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 72 | | 72 | | | | | | | | | | 0.05 ± 0.15 | NEG | 0.9 ± 1.9 | 0.1 ± 0.2 | 4.2 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 73 | | 73 | | | | | | | | | | 0.00 ± 0.02 | NEG | -1.5 ± 1.9 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 74 | | 74 | | | | | | | | | | 0.01 ± 0.14 | NEG | -0.2 ± 1.3 | 0.0 ± 0.1 | 2.2 | 10.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 75 | | 75 | | | | | | | | | | 0.01 ± 0.22 | NEG | 1.0 ± 2.7 | 0.0 ± 0.2 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 76 | | 76 | | | | | | | | | | 0.04 ± 0.03 | NEG | -0.9 ± 1.0 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 77 | | 77 | | | | | | | | | | 0.01 ± 0.14 | NEG | 0.0 ± 1.3 | 0.0 ± 0.1 | 1.7 | 10.5 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 78 | | 78 | | | | | | | | | | 0.00 ± 0.02 | NEG | 0.3 ± 1.5 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 79 | | 79 | | | | | | | | | | 0.01 ± 0.25 | NEG | -0.7 ± 1.8 | 0.0 ± 0.3 | 1.3 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 80 | | 80 | | | | | | | | | | 0.04 ± 0.11 | NEG | -0.4 ± 1.4 | 0.0 ± 0.1 | 4.0 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 81 | | 81 | | | | | | | | | | 0.99 ± 0.18 | POS | 0.6 ± 0.9 | 1.0 ± 0.2 | 1.6 | 22.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 82 | | 82 | | | | | | | | | | 0.10 ± 0.15 | NEG | 0.8 ± 0.6 | 0.1 ± 0.2 | 7.2 | 48.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 83 | | 83 | | | | | | | | | | 0.18 ± 0.38 | NEG | 0.5 ± 1.6 | 0.2 ± 0.4 | 3.0 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 84 | | 84 | | | | | | | | | | 0.17 ± 0.06 | NEG | 0.8 ± 3.2 | 0.2 ± 0.1 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 85 | | 85 | | | | | | | | | | 0.02 ± 0.04 | NEG | 0.3 ± 1.9 | 0.0 ± 0.0 | 1.1 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 86 | | 86 | | | Shutter Cal-1 | | | | | | | 0.68 ± 0.00 | | 0.0 ± 0.1 | 0.0 ± 0.0 | 0.0 | 166.9 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 87 | | 87 | | | | | | | | | | 1.18 ± 0.18 | INCOM | 0.7 ± 0.8 | 1.2 ± 0.2 | 1.2 | 19.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 88 | | 88 | | | | | | | | | | 1.04 ± 0.15 | POS | 0.9 ± 0.8 | 1.0 ± 0.2 | 1.1 | 22.0 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 89 | | 89 | | | | | | | | | | 0.17 ± 0.31 | NEG | -0.7 ± 2.9 | 0.2 ± 0.3 | 1.7 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 90 | | 90 | | | | | | | | | | 0.00 ± 0.01 | NEG | 0.1 ± 1.8 | 0.0 ± 0.0 | 1.0 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 91 | | 91 | | | | | | | | | | 0.00 ± 0.13 | NEG | -0.1 ± 1.7 | 0.0 ± 0.1 | 1.0 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 92 | | 92 | | | | | | | | | | 0.14 ± 0.27 | NEG | -1.3 ± 1.9 | 0.1 ± 0.3 | 2.3 | 5.7 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 93 | | 93 | | | | | | | | | | 0.01 ± 0.03 | NEG | -2.3 ± 2.6 | 0.0 ± 0.0 | 1.0 | 3.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 94 | | 94 | | | | | | | | | | 2.64 ± 0.65 | POS | 10.5 ± 5.1 | 2.6 ± 0.7 | 1.0 | 3.2 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 95 | | 95 | | | | | | | | | | 2.84 ± 0.88 | POS | 6.3 ± 3.6 | 2.8 ± 0.9 | 2.0 | 5.6 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 96 | | 96 | | | | | | | | | | 0.01 ± 0.27 | NEG | -0.5 ± 1.1 | -0.5 ± 1.1 | 1.0 | 12.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 97 | | 97 | | | | | | | | | | 0.00 ± 0.12 | NEG | 0.2 ± 1.2 | 0.0 ± 0.1 | 1.0 | 12.9 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 98 | | 98 | | | | | | | | | | 0.00 ± 0.04 | NEG | 0.1 ± 0.9 | 0.0 ± 0.0 | 1.0 | 22.3 | 5/7/103 | 10:46:35 | | 1 of 1 |
| 99 | | 99 | | | Shutter Cal-1 | | | | | | | 0.68 ± 0.00 | | 0.0 ± 0.1 | 0.0 ± 0.0 | 0.0 | 166.7 | 5/15/103 | 10:46:35 | | 1 of 1 |

# APPENDIX C
# ASBESTOS & LEAD ABATEMENT PLAN

Appendix C

**American Technologies, Inc.**
**American Restoration**

**CORPORATE OFFICE**
*210 Baywood Avenue*
*Orange, CA 92865*
*(714) 283-9990*
*(800) 400-9353*
*(714) 283-9995-Fax*

Writer's E-mail
bknapp@amer-tech.com
ATI Job # 4196135805

January 13, 2004

Mr. Kevin Roberts
Hart Crowser
301 E. Ocean Blvd., # 1950
Long Beach, CA 90802

Phone: (562) 733-1740 Fax: (562) 733-1750

***SUBJECT: PROPOSAL (REVISED) TO PROVIDE ASBESTOS AND LEAD PAINT ABATEMENT, 1206 W. 196TH STREET, TORRANCE, CA.***

Dear Mr. Roberts,

American Technologies, Inc. (ATI) is pleased to present this proposal to perform the subject work. The scope of work was determined during our previous walkthrough and a review of available asbestos/lead survey documents.

## Scope of Work

**1. Scope of Work.** The proposed Scope of Work is as follows:

**1.1 Removal of Materials.** The following materials will be removed and disposed:

*Building A*

- Encapsulate asbestos containing window putty from interior windows. Encapsulate significantly damaged areas of asbestos-containing window putty from exterior windows (where accessible).
- Remove and dispose of *orange colored* lead based paint from pole protectors (bollards) Paint to be chemically stripped or sand blasted. Repaint areas of removed paint with non-leaded paint.
- Remove and dispose of loose and flaky *orange colored* lead based paint from significantly damaged and isolated areas of the traction beams. Encapsulate edges of removed paint.

*Building B*

- Remove and dispose of *damaged or loose* asbestos containing window putty from exterior windows. Encapsulate edges of removed areas.
- Remove and dispose of *damaged* asbestos containing floor tile and baseboard mastic from office areas. Encapsulate edges of removed areas.
- Remove and dispose of *damaged* asbestos containing drywall/joint compound from office areas. Damaged areas to cut out to nearest stud bay to facilitate replacement. Encapsulate edges of removed areas.

- Remove and dispose of *damaged* asbestos containing stucco from office areas. Encapsulate edges of removed areas.

*Building C*

- Remove and dispose of loose and flaky *white colored* lead based paint from exterior siding. Encapsulate remaining intact paint edges with primer.

## 1.2 Removal Requirements and Methods

(a) The work area will be restricted with "Asbestos and Lead Caution" signs and tape. This area will be off limits to all persons except authorized ATI personnel until the work is completed.

(b) Protective clothing will be used and will include hooded Tyvek suits, boots, gloves and respirators.

(c) Work will be preformed in accordance with, and inmost cases exceed, standards set by EPA, OSHA, NIOSH, and SCAQMD. In particular, the work will comply with EPA, NIOSH and OSHA asbestos worker protection regulations (e.g. 29 CFR 1926.1101).

(d) The areas where the material will be removed will be prepared to include critical barriers.

(e) Loose and flaky lead based paint may be pressure washed from the substrate. ATI will protect the floor and immovable objects from contamination.

(f) After the asbestos and lead are removed, the area will be cleaned and encapsulated. The area can be tested by an independent testing firm and pass industry standard clearance criteria for asbestos and lead abatement. Cost associated with clearance sampling is not included with this proposal.

(g) Power, and water to be supplied by property owner.

## 1.3 Disposal Requirements

(a) Waste and debris will be transported by a licensed and certified hauler in accordance with EPA, SCAQMD, and California Highway Patrol requirements and disposed at a certified landfill in accordance with EPA and OSHA requirements.

## 1.4 Agency Notice Requirements

(a) No advance notification to the SCAQMD is anticipated prior to the start of work. ATI will submit a notification to CAL-OSHA for asbestos work and DHS for lead work.

## 1.5 Limitations on Responsibility

ATI will not be responsible for the following:

(a) Marks on floors, walls, or windows due to adhering layers of polyethylene, or the removal of asbestos or lead-containing materials.

(b) Moving of tenant equipment from the work areas. Work areas must cleared by others prior to the start of our work so that the work can be accomplished.

(c) Damage caused by any conditions existing as of the date ATI performs its site inspection whether due to fire, water damage or other causes.

**2. Contract Price and Payment.**

**2.1** **Price.** ATI will perform the Work described in this proposal for the sums listed below. These amounts include the cost of all labor, material, transportation, and disposal of the asbestos and lead waste.

| | |
|---|---|
| ASBESTOS/LEAD ABATEMENT | $11,600.00 |
| **TOTAL** | **$11,600.00** |

**ESTIMATED WORK DURATION : 1 WEEK**

**2.2** **Payment Terms**

(a) Payment is due within thirty (30) days after receipt of ATI's invoice. ATI will bill monthly based on work completed.

(b) Any payment due and unpaid for more than 30 days, shall bear interest from the date payment was due at the lesser of eighteen percent (18%) per annum or the maximum rate permitted by law. The Client will be responsible for any attorneys' fees and collection costs ATI incurs in enforcing collection.

Please sign where indicated below if you desire to accept this proposal and authorize ATI to perform the Work. You should retain a copy for your records and return the executed original to ATI's office.

Sincerely,

Bob Knapp
Sales/Estimator

**Authorized and Accepted**

By: _____

Title: _____

# APPENDIX D
# AGENCY NOTIFICATIONS

**TEMPORARY JOBSITE NOTIFICATION**
**ASBESTOS-RELATED WORK**

**CAL/OSHA**
**2100 E. Katella Avenue, Room 140**
**Anaheim, CA 92806**
**(714) 939-0815 - Fax**

**Asbestos Renovation** [ X ]
**Asbestos Demolition** [ ]
**Emergency Abatement** [ ]
**Asbestos Notification Revision** [ ]

**Contractor's State License Board Certification No.: 571784**
**CAL/OSHA Registration No.: 213**

1. **Contractor:** American Technologies, Inc. **Job No.:** 419-61-35805
   210 Baywood Ave.
   Orange, CA 92865
   (714) 283-9990
   **Certified Supervisor and Qualified Person:** Jose Barrera
2. **Property Owner/Operator:** Hart Crowser
   **Address:** 301 E. Ocean Blvd. #1950, Long Beach, CA 90802
   **Phone Number:** 562-733-1740
3. **Building Information (Name):** PACCAR/Mighty USA Bldg. A, B, C
   **Address:** 1206 W. 196th. St., Torrance, CA 90502
   **Major Cross Streets:** S. Normandie Ave.
   **Age of Building:** 50 **Use of Building:** Commercial
4. **Scope of Work:** Area(s) of Removal: Asbestos in Bldg. A, B
   **Type of Asbestos:** Window Putty, drywall, floor tiles **Quantity:** 60 SF
   **Method of Removal:** Wet thoroughly-clean up promptly
   **Method of Emission Control:** Wet Removal
   **Number of Employees in Work Area:** 5
   **Start Date:** 2/11/04 **Completion Date:** 2/17/04
5. **Work Practices and Engineering Controls:**
   - **Procedure 1** [ ] Remove asbestos containing material utilizing adequate wetting in an isolated work area with negative air pressure.
   - **Procedure 2** [ ] Removal by the glove bag method or mini enclosure.
   - **Procedure 3** [ X ] Adequately wet any asbestos containing material while it is being removed and use isolation to the extent possible to contain the contaminated area.
6. **Evaluation of the potential for exposure:** Low
7. **Disposal Site: (Name)** Azusa Reclamation Center
   **Address:** 1201 Gladstone, Azusa, CA 91702
   **Phone:** 626-334-0719
   **Disposal Procedure:** 6-Mil, double layered, polyethylene bags

**NOTE:** Any change in the information provided to the division by written notice shall be reported to the division at or before the time of the change.
In accordance with Section 5208 of Title No. 8 of the California Administrative Code, this letter serves to notify you that the substance asbestos shall be removed.

**SIGNED:** MAIDA GOMEZ **DATE:** 2/10/04
**TITLE:** ADMINISTRATIVE ASST.

**TEMPORARY JOBSITE NOTIFICATION**
**ASBESTOS-RELATED WORK**

**CAL/OSHA**
**2100 E. Katella Avenue, Room 140**
**Anaheim, CA 92806**
**(714) 939-0815 - Fax**

Asbestos Renovation [ X ]
Asbestos Demolition [ ]
Emergency Abatement [ ]
Asbestos Notification Revision [ ]

**Contractor's State License Board Certification No.: 571784**
**CAL/OSHA Registration No.: 213**

1. Contractor: American Technologies, Inc. Job No.: 419-61-35805
   210 Baywood Ave.
   Orange, CA 92865
   (714) 283-9990
   Certified Supervisor and Qualified Person: Jose Barrera
2. Property Owner/Operator: Hart Crowser
   Address: 301 E. Ocean Blvd. #1950, Long Beach, CA 90802
   Phone Number: 562-733-1740
3. Building Information (Name): PACCAR/Mighty USA Bldg. A, B, C
   Address: 1206 W. 196th. St., Torrance, CA 90502
   Major Cross Streets: S. Normandie Ave.
   Age of Building: 50 Use of Building: Commercial
4. Scope of Work: Area(s) of Removal: Asbestos in Bldg. A, B
   Type of Asbestos: Window Putty, drywall, floor tiles Quantity: 60 SF
   Method of Removal: Wet thoroughly-clean up promptly
   Method of Emission Control: Wet Removal
   Number of Employees in Work Area: 5
   Start Date: 2/11/04 Completion Date: 2/17/04
5. Work Practices and Engineering Controls:
   Procedure 1 [ ] Remove asbestos containing material utilizing adequate wetting in an isolated work area with negative air pressure.
   Procedure 2 [ ] Removal by the glove bag method or mini enclosure.
   Procedure 3 [ X ] Adequately wet any asbestos containing material while it is being removed and use isolation to the extent possible to contain the contaminated area.
6. Evaluation of the potential for exposure: Low
7. Disposal Site: (Name) Azusa Reclamation Center
   Address: 1201 Gladstone, Azusa, CA 91702
   Phone: 626-334-0719
   Disposal Procedure: 6-Mil, double layered, polyethylene bags

NOTE: Any change in the information provided to the division by written notice shall be reported to the division at or before the time of the change.
In accordance with Section 5208 of Title No. 8 of the California Administrative Code, this letter serves to notify you that the substance asbestos shall be removed.

SIGNED: MAIDA GOMEZ DATE: 2/10/04
TITLE: ADMINISTRATIVE ASST.

**AMERICAN TECHNOLOGIES, INC.**
**AMERICAN RESTORATION**

**INLAND EMPIRE**
720 Carnegie Drive • San Bernardino, CA 92408
(909) 890-5530 • Fax (909) 890-5550
www.amer-tech.com

February 9, 2004

To Whom It May Concern:

American Technologies, Inc. is scheduled to start Asbestos/Lead Abatement at 1206 W. 196th Street, Torrance, CA 90502 on Wednesday, February 11, 2004 to Tuesday, February 17, 2004. The five working days is excluding Saturday and Sunday, because our company does not work on Saturdays and Sundays.

Sincerely,

Maida Gomez
American Technologies, Inc.

| BAY AREA | CORPORATE OFFICE | LAS VEGAS | LOS ANGELES | SACRAMENTO | SAN DIEGO |
|---|---|---|---|---|---|
| (888) 400-9353 | (800) 400-9353 | (702) 568-0800 | (877) 400-9353 | (916) 614-7990 | (866) 400-9353 |
| Fax (510) 265-5520 | Fax (714) 939-4990 | Fax (702) 920-7640 | Fax (818) 700-5065 | Fax (916) 614-7995 | Fax (619) 562-7750 |

STATE OF CALIFORNIA
Division of Occupational Safety and Health

# LEAD-WORK PRE-JOB NOTIFICATION

CAL OSHA

☐ Annual Notification for Steel Structures

(Note: Items marked * are required)

| *Name of employer doing 'Lead Work' | *Address | *Zipcode | *Phone |
|---|---|---|---|
| American Technologies Inc | 210 Bay Wood Ave. Orange, CA 92865 | | 714-283-9990 |
| Cell. Cont. Lic. No. (if applicable) 571784 | | | Pager/cellular phone No. 800-400-9353 |

| Supervisor: | *Number of lead-job workers: (check one below) | |
|---|---|---|
| * Supervisor name: Jose Barrera | ☒ 1 - 5 | ☐ 31 - 40 |
| California Department of Health Services Lead Cert. No. (if applicable) LGW1 012304020N | ☐ 6 - 10 | ☐ 41 - 50 |
| | ☐ 11 - 20 | ☐ > 50 |
| | ☐ 21 - 30 | |

| *Job start date/time | *Job completion date/time | Shift | *Approximate duration of 'Lead Work' in days |
|---|---|---|---|
| 2/11/04 8:00am | 2/17/04 4:00 p.m. | ☒ Day ☐ Swing ☐ Graveyard ☐ Other | 5 Days |

| *Street address or location of job | City | Nearest cross street |
|---|---|---|
| 12006 W. 196th St. | Torrance | S. Normandie Ave |
| | County: Los Angeles | Zipcode: 90502 |

*Precise Location of work (building no., room no., etc.) PACCAR/MIGHTY USA: Bldg A.C.

| Entity contracting the lead-work | Address | Zipcode | Phone |
|---|---|---|---|
| ☒ Premises Owner ☐ Lessee (check one) | 301 E. Ocean Blvd. #1950 Long Beach CA | 90802 | 562-733-1740 |
| | | | Pager/cellular phone No. |

Type of structure and use:
☐ Office Building ☐ Residence ☐ Steel Structure/Type ____
☒ Public Access/Commercial ☐ School ☐ Other ____

Scope of work and work practices:

*Describe lead-related work to be done (check all that apply)
☐ Surface Preparation ☐ Wall Repair ☐ Other ____
☐ Water/Moisture Damage Repair ☒ Paint Removal
☐ Window/Door Repair/Replacement ☐ Demolition

*Describe paint removal methods (check all that apply):
☒ Manual Scraping/Sanding ☐ Demolition ☐ Hydroblasting ☐ Other work practices disturbing lead:
☐ Power Sanding/Grinding ☐ Heat Guns ☐ Torch Cutting ____
☒ Chemical Stripping ☐ Abrasive Blasting ☐ Welding

*Amount of area to be disturbed: (check one per column)
☐ < 10 square feet ☐ < 10 linear feet
☐ 10 - 100 square feet ☐ 10 - 100 linear feet
☒ 101 - 1000 square feet ☐ 100 - 1000 linear feet
☐ > 1000 square feet ☐ > 1000 linear feet

Torch Cutting/Welding
Duration of work: ____

Concentration of lead in disturbed materials:
10,000 - 200,000 parts per million (ppm) ____ % percent by weight
____ mg/cm² Assumed to be lead-containing: ☐ YES

| *Name of notifier | Title: | *Date signed: |
|---|---|---|
| Maida Long | | 2/10/04 |

This information is provided in accordance with Title 8, California Code of Regulations, Construction Safety Order Section1532.1 (b).

1/25/02

# APPENDIX E
# CONTRACTOR CLOSEOUT PACKAGE
# AMERICAN TECHNOLOGIES, INC.

Appendix E

**American Technologies, Inc.**
**American Restoration**

**CORPORATE OFFICE**
*210 Baywood Avenue*
*Orange, CA 92865*
*(714) 283-9990*
*(800) 400-9353*
*(714) 283-9995-Fax*

April 28, 2004

Kevin Roberts
Hart Crowser
301 E. Ocean Blvd., #1950
Long Beach, CA 90802

Ref: PACCAR/Mighty USA
1206 W. 196th Street
Torrance, CA 90502

Enclosed is the requested closeout documentation for the above referenced project:

- Statement of Work Complete
- Scope of Work
- Agency Notifications
- Waste Manifest Form
- Air Sample Results
- ATI Licenses
- Supervisor's Logs
- Worker's Documentation

Should you have any questions, or require additional information, please do not hesitate to contact us.

Sincerely,

Brigida M. Perez
Administrative Assistant

**BAY AREA**
*(510) 429-5000*
*(888) 400-9353*
*(510) 429-5010-Fax*

**INLAND EMPIRE**
*(909) 890-5530*
*(909) 890-5550-Fax*

**LAS VEGAS**
*(702) 568-0800*
*(702) 920-7640-Fax*

**LOS ANGELES**
*(818) 700-5060*
*(877) 400-9353*
*(818) 700-5065-Fax*

**SACRAMENTO**
*(916) 614-7990*
*(916) 614-7995-Fax*

**SAN DIEGO**
*(619) 562-7730*
*(866) 400-9353*
*(619) 562-7750-Fax*

***www.amer-tech.com***

**American Technologies, Inc.**
**American Restoration**

**CORPORATE OFFICE**
*210 Baywood Avenue*
*Orange, CA 92865*
*(714) 283-9990*
*(800) 400-9353*
*(714) 283-9995-Fax*

Writer's e-mail:
bperez@amer-tech.com
File Number:
419-61-35805

**STATEMENT OF WORK COMPLETE**

Kevin Roberts
Hart Crowser
301 E. Ocean Blvd., #1950
Long Beach, CA 90802

Site: PACCAR/Mighty USA
1206 W. 196th Street
Torrance, CA 90502

American Technologies, Inc. Job #419-61-35805

The above noted site has been inspected following the completion of the Asbestos abatement work on February 15, 2004. American Technologies, Inc. has found the site to be satisfactorily free of asbestos at the time of visual inspection. The Asbestos abatement work performed by American Technologies, Inc. is hereby found to be complete.

AMERICAN TECHNOLOGIES, INC.

Bob Knapp

Bob Knapp Project Manager

4/28/04
Date

**BAY AREA**
*(510) 429-5000*
*(888) 400-9353*
*(510) 429-5010-Fax*

**INLAND EMPIRE**
*(909) 890-5530*
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**SAN DIEGO**
*(619) 562-7730*
*(866) 400-9353*
*(619) 562-7750-Fax*

***www.amer-tech.com***

[redacted]

| [redacted] WASTE MANIFEST | 1. Generator's US EPA ID No. NOT REQUIRED | Manifest Document No. | 2. Page 1 of |
|---|---|---|---|

**3. Generator's Name and Mailing Address**
PACCAR, INC.
777 106TH AVE., N.E. PACCAR BLDG.
BELLEVUE, WA 98004

**SITE:**
PACCAR/MIGHTY USA
1206 W. 196TH STREET
TORRANCE, CA 90502
(319-61-3[illegible]805

**4. Generator's Phone** ( 310-516-7478

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| AMERICAN TECHNOLOGIES, INC. | C A L 0 0 0 2 7 6 2 3 8 | 714 283-9990 |
| **7. Transporter 2 Company Name** | **8. US EPA ID Number** | **B. Transporter's Phone** |
| BDC SPECIALTY WASTE SVCS | C A R 0 0 0 0 1 7 6 5 7 | 800 221-4232 |
| **9. Designated Facility Name and Site Address** | **10. US EPA ID Number** | **C. Facility's Phone** |
| AZUSA LAND RECLAMATION CENTER<br>1201 W. GLADSTONE<br>AZUSA, CA 91702 | C A D 0 0 9 0 0 7 6 2 6 | [illegible] |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON-FRIABLE ASBESTOS CONTAINING MATERIAL (S) | 32 | [illegible] | [illegible] | |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

[illegible] E. COLLEY [illegible] DIAMOND BAR CA [illegible]
TRANSPORTER (1) [illegible] TRANS [illegible]
[illegible]

**16. GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

**17. Transporter 1 Acknowledgement of Receipt of Materials**

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

**18. Transporter 2 Acknowledgement of Receipt of Materials**

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

**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 |
|---|---|---|---|---|
| Galinda [illegible] | [illegible] | 3 | 25 | 04 |

GENERATOR

TRANSPORTER

FACIL

TRANSPORTER #2

PACCAR 01658

# ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)
November 21, 2003

PRODUCER
Aon Risk Services, Inc.
707 Wilshire Blvd., Suite 6000
Los Angeles, CA 90017
(213) 630-3200

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

| COMPANY | |
|---|---|
| A | AMERICAN INTERNATIONAL SPECIALTY LINES |
| B | COMMERCE AND INDUSTRY INS. CO. |
| C | |
| D | |

INSURED
AMERICAN TECHNOLOGIES, INC.
210 BAYWOOD AVENUE
ORANGE, CA 92865

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. THE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | | |
|---|---|---|---|---|---|---|---|
| A | GENERAL LIABILITY<br>☒ COMMERCIAL GENERAL LIABILITY<br>☒ CLAIMS MADE ☐ OCCUR<br>☐ OWNERS & CONTRACTORS PROTECTIVE<br>☐ ____<br>☐ ____ | PRO 195 5652 | 10-1-03 | 10-1-04 | GENERAL AGGREGATE<br>PRODUCTS - COMP/OPS AGG<br>PERSONAL & ADV INJURY<br>EACH OCCURRENCE<br>FIRE DAMAGE (Any One Fire)<br>MEDICAL EXPENSE (Any one person) | $<br>$<br>$<br>$<br>$<br>$ | 1 000,000<br>1,000,000<br>1 000,000<br>1 000,000<br>100,000<br>25,000 |
| B | AUTOMOBILE LIABILITY<br>☒ ANY AUTO<br>☐ ALL OWNED AUTOS<br>☐ SCHEDULED AUTOS<br>☒ HIRED AUTOS<br>☒ NON-OWNED AUTOS<br>☒ Comp Ded. $1,000<br>☒ Coll Ded. $1,000 | CA1951706 | 10-1-03 | 10-1-04 | COMBINED SINGLE LIMIT<br>BODILY INJURY (Per person)<br>BODILY INJURY (Per accident)<br>PROPERTY DAMAGE | $<br>$<br>$<br>$ | 1 000,000 |
| | GARAGE LIABILITY<br>☐ ANY AUTO<br>☐ ____ | | | | AUTO ONLY - EA ACCIDENT<br>OTHER THAN AUTO ONLY<br>EACH ACCIDENT<br>AGGREGATE | $<br>$<br>$ | |
| A | EXCESS LIABILITY<br>☒ UMBRELLA FORM-Excluding Mold<br>☐ OTHER THAN UMBRELLA FORM | PRO 195 5553 | 10-1-03 | 10-1-04 | EACH OCCURRENCE<br>AGGREGATE | $<br>$<br>$ | 4 000,000<br>4 000,000 |
| B | WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY<br>THE PROPRIETOR/PARTNERS/ EXECUTIVE OFFICERS ARE ☐ INCL ☐ EXCL | 3280338-CA<br>3280338-AOS | 8-1-03 | 8-1-04 | ☒ WC STATUTORY LIMITS ☐ OTHER<br>EL EACH ACCIDENT<br>EL DISEASE POLICY LIMIT<br>EL DISEASE EACH EMPLOYEE | $<br>$<br>$ | 1,000,000<br>1 000 000<br>1,000,000 |
| A | Mold Liability | PRO 195 5652 | 10-1-03 | 10-1-04 | $5,000,000 Per Occurrence/Aggregate | | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

EVIDENCE OF INSURANCE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

©ACORD CORPORATION 1988

# ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY)
November 21, 2003

PRODUCER
Aon Risk Services, Inc.
707 Wilshire Blvd., Suite 6000
Los Angeles, CA 90017
(213) 630-3200

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

| COMPANY | |
|---|---|
| A | AMERICAN INTERNATIONAL SPECIALTY LINES |
| B | COMMERCE AND INDUSTRY INS. CO |
| C | |
| D | |

INSURED
AMERICAN TECHNOLOGIES, INC.
210 BAYWOOD AVENUE
ORANGE, CA 92865

## COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS, AND CONDITIONS OF SUCH POLICIES. THE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| CO LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | |
|---|---|---|---|---|---|---|
| A | GENERAL LIABILITY<br>☒ COMMERCIAL GENERAL LIABILITY<br>☐ CLAIMS MADE ☒ OCCUR<br>☐ OWNER'S & CONTRACTOR'S PROTECTIVE<br>☒ Asbestos Special Liab Incl<br>☒ Lead Special Liab. Incl. | PRO1955654 | 10-1-03 | 10-1-04 | GENERAL AGGREGATE<br>PRODUCTS - COMP/OPS AGG<br>PERSONAL & ADV INJURY<br>EACH OCCURRENCE<br>FIRE DAMAGE (Any one Fire)<br>MEDICAL EXPENSE (Any one person) | $ 1,000,000<br>$ 1,000,000<br>$ 1,000,000<br>$ 1,000,000<br>$ 100,000<br>$ 25,000 |
| B | AUTOMOBILE LIABILITY<br>☒ ANY AUTO<br>☐ ALL OWNED AUTOS<br>☐ SCHEDULED AUTOS<br>☒ HIRED AUTOS<br>☒ NON-OWNED AUTOS<br>☒ Comp Ded $1,000<br>☒ Coll Ded $1,000 | CA1951706 | 10-1-03 | 10-1-04 | COMBINED SINGLE LIMIT<br>BODILY INJURY (Per person)<br>BODILY INJURY (Per accident)<br>PROPERTY DAMAGE | $ 1,000,000<br>$<br>$<br>$ |
| | GARAGE LIABILITY<br>☐ ANY AUTO<br>☐ _____ | | | | AUTO ONLY - EA ACCIDENT<br>OTHER THAN AUTO ONLY:<br>EACH ACCIDENT<br>AGGREGATE | $<br><br>$<br>$ |
| A | EXCESS LIABILITY<br>☒ UMBRELLA FORM<br>☐ OTHER THAN UMBRELLA FORM | PRO1955655 | 10-1-03 | 10-1-04 | EACH OCCURRENCE<br>AGGREGATE | $ 4,000,000<br>$ 4,000,000<br>$ |
| B | WORKERS' COMPENSATION AND EMPLOYERS' LIABILITY<br>THE PROPRIETOR/PARTNERS/ EXECUTIVE OFFICERS ARE: ☐ INCL ☐ EXCL | 3280338-CA<br>3280338-AOS | 8-1-03 | 8-1-04 | X WC STATUTORY LIMITS ☐ OTHER<br>E.L. EACH ACCIDENT<br>E.L. DISEASE POLICY LIMIT<br>E.L. DISEASE EACH EMPLOYEE | <br>$ 1,000,000<br>$ 1,000,000<br>$ 1,000,000 |
| A | E&O and Pollution Cov. | PRO1955654 | 10-1-03 | 10-1-04 | Included in General Liability Coverage Form | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

CERTIFICATE HOLDER

EVIDENCE OF INSURANCE

CANCELLATION
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE


©ACORD CORPORATION 1988

**American Technologies, Inc.**
**American Restoration**

# SIGN IN SHEET

Project Name: PACCARD / MIGHTY CUA Date: 2-11-04

Project Address: 19600 Normandie Ave. Job Number: 419-61-35805

Building Number: "C" Area/Room: Outside

Project Supevisor: Jose Barrera.

| | Name | Signature | Start Time | End Time |
|---|---|---|---|---|
| 1 | Jose Barrera | [illegible] | 7:00 | 3:30 |
| 2 | Gustavo Derbenio | Gustavo Derbenio | ↓ | ↓ |
| 3 | Henry Martinez | [illegible] | | |
| 4 | Jose Munguia | Jose munguia | | |
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American Technologies, Inc.
American Restoration

# Daily Jobsite Log

Project Name: PACCARD Date: 2-11-04
Project Address: 19600 Normandie Av. Job Number: 419-61-35805
Building Number: C Area/Room: outside
Project Supevisor: Jose Barrera

Import Contact with Client:

| Name | Time | Description |
|---|---|---|
| Bob | 7:00 | Scope of work. |
| | | |

Subcontractors/Rental Company on Jobsite:

| Subcontractor | Supervisor | Description |
|---|---|---|
| — | | |
| — | | |

What type of work on this project? Asbestos ☑ Lead ☑ Mold ☐ Soft Demo ☐

T & M Project? YES☐ NO☑

Manifest # N.A. EPA# USED

Type Waste Asb. Haz ☐ Asb.Non-Haz ☑ Lead ☑ Mastic Asb. ☐ Trash/Construction Debris ☐

Shower Filtration Log:

| Machine # | Date | Change Time of Filters |
|---|---|---|
| — | | |
| — | | |

Unusual Conditions/Changes to Scope of Work: N.A.

Waste Stored Where on Jobsite? Building "B"

Number of Bags This Shift? Each/Drum

Type of Waste: Asb. Friable ☐ Asb. Non Friable ☑ Lead ☑ Light Balance ☐ Light Tubes ☐

**American Technologies, Inc.**
**American Restoration**

# Daily Log Report

Project Name: PACCARD Date: 2-11-04

Project Address: 19600 Normandie av. Job Number: 419-61-35805

Building Number: C Area/Room: outside

Project Supevisor: Joe Banera

Work Accomplished this Shift:

7:00 Arrived at the job site and Discuss scope of work with Bob Knapp. Meet Consultant Kevin from Hart Crowser.
After that put plastic on floor, Caution tape, Decon. Around 3 area in Building "C" to remove loose and flaky paint from the Building.
10:00 get full suit up and started to remove loose and flaky paint in Building "C" and encapsulated work area on North and South side of Building by sliding Doors. and some spots in west side. Bagged, Clean area, Contain loose chips in drums.

American Technologies, Inc.
American Restoration

# Containment Entry Log

Project Name: PACCAR Job Number: 419-61-35805

Date: 2-11-04 Containment Area Building C

| Name | Time In | Time Out | Time In | Time Out | Time In | Time Out |
|---|---|---|---|---|---|---|
| Jose Barrera | 7:00 | 11:00 | 12:00 | 3:30 | | |
| Gustavo Deridero | ↓ | ↓ | ↓ | ↓ | | |
| Henry Marquez | ↓ | ↓ | ↓ | ↓ | | |
| Jose Munguia | ↓ | ↓ | ↓ | ↓ | | |

American Technologies, Inc.
American Restoration

# Project Respirator Change Log

Project Name: PACCARD Job Number: 419-61-35805

Date: 2-11-04 Supervisor Jose Barrera

☐ PAPR ☑ HALF FACE

| Name | Change Time | Change Time | Change Time | Change Time |
|---|---|---|---|---|
| Jose Barrera | 10:00 | | | |
| Henry Martinez | 10:00 | | | |
| Jose Munguia | 10:00 | | | |
| Gustavo Desiderio | 10:00 | | | |
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**American Technologies, Inc.**
**American Restoration**

# Daily Project Safety Meeting

Job Name: PACCARD Job Number: 419-61-35805

Project Address: 19600 NORMANDIE AV.

Supervisor Name: Joe Barrera

Date of Safety Meeting: 2-11-04 Time of Safety Meeting: 10:00

Site Specific Safety Issues Discussed:
1. Use of scaffolds
2. Ladders
3. chemicals.
4.
5.

Site Specific Project Hazards to be aware of:
1. FALLS AND TRIPS.
2.
3.
4.
5.

- ☐ Nearest Hospital Address/ Phone # Posted
- ☑ Asb. Certs, Med., Fit Test
- ☑ Haz. Wopper Certs, Med., Fit Test
- ☑ HVAC Shutdown/ Sealed Off
- ☐ LAFD Permit Posted
- ☐ Fire Permit/ Hot Work
- ☑ ATI Handbook Onsite
- ☑ Co. Postal Paperwork Posted
- ☑ Signs/ Fagging Posted at all Entrances to Containment
- ☑ Co. Medical Location Posted
- ☑ Lead Certs. Med., Fit Test
- ☑ Emergency Contact List Posted
- ☐ Electrical Lockout/ Tag Out
- ☐ Confined Space Permit
- ☑ MSDS Book Onsite
- ☑ Health Safety ATI Book Onsite
- ☑ Notification Posted
- ☐ Site Survey Onsite
- ☐ Mold Certification, Medical Fit Test

**Personal Protective Equipment:**
- ☑ Hard Hat
- ☑ Rubber Gloves
- ☑ Tyvek Suit
- ☑ Safety Eye Protection
- ☑ Respiration Protection
- ☐ Leather Gloves
- ☑ Rubber Boots
- ☐ Standard Disposable Suit
- ☐ Work Boots
- ☐ Safety Neon Vest
- ☐ Cotton Gloves



PACCAR 01666

# Daily Project Safety Meeting (Cont.)

**Electrical Hand Tools/ Electrical Cords:**
- [x] GFI Hook Up on all Electrical Equipment
- [ ] Lights w/Guard/ Glass Cover
- [x] Electrical Cords No Bare wire/ Cuts/ Grounds Complete
- [ ] Manufacture Guard on Hard Tools such as Skill Saw, Peanut Grinder, Sawzall, Nutech Test
- [ ] Spiderboy/ Cord Checked Prior to Use

**Welding Equipment:**
- [ ] Fire Blanket
- [ ] Eye Protection, Face Shield
- [ ] Welding Gloves
- [ ] Water Hose Present
- [ ] Gages in Good Working Condition
- [ ] Tanks Stored Correctly – Locked Chain to Solid Structure of Building
- [ ] Fire Extinguisher Present
- [ ] Welding PPE Body Covering
- [ ] Hoses Checked for Cuts and Perforations
- [ ] Tank Caps Secured
- [ ] Full/ Empty Signs Posted on Tanks

**Pneumatic Tools:**
- [ ] Connection Hoses Secured
- [ ] Guards on Pneumatic Tools
- [ ] Proper Lubrication on Pneumatic Tools

**Safety Equipment:**
- [x] Eye Wash Station
- [x] Eye Wash Bottle
- [x] First Aid Kit
- [x] Fire Extinguisher
- [x] LAFD Emergency Box

**Fall Protection:**
- [ ] Chute Secured
- [ ] Cable Secured
- [x] Guardrails
- [x] Barrier Line with Spoter
- [x] Ladder Tied Off
- [x] Safety Harness Used by Crew Members
- [ ] Holes in Roof Covered/ Marked

**Ladders:**
- [x] Check/ Inspect
- [x] No Standing on Top Two Steps of Ladder
- [x] Extension Ladder Tied Off

**Rental Equipment:**
- [ ] Checked and Inspected Prior to Use
- [ ] Safety Harness Used by Crew Members

**Signatures:**
1. [signature]
2. [signature]
3. Gustavo Desiderio
4. [signature]
5. 
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PACCAR 01667

**American Technologies, Inc.**
**American Restoration**

# SIGN IN SHEET

Project Name: PACCARD / MIGHTY U.S.A. Date: 2-17-04

Project Address: 19600 Normandie av. Job Number: 419-61-35805

Building Number: A Area/Room: ~~[illegible]~~ warehouse.

Project Supevisor: Jose Barrera.

| | Name | Signature | Start Time | End Time |
|---|---|---|---|---|
| 1 | Jose Barrera. | [illegible] | 7:00 | 3:30 |
| 2 | Henry Martinez | [illegible] | | |
| 3 | Walter platero | WALTER PLATERO | ↓ | ↓ |
| 4 | Jose monguia | Jose monguia | | |
| 5 | Miguel Sanchez | MIGUEL SANCHEZ | | |
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**American Technologies, Inc.**
**American Restoration**

# Daily Jobsite Log

Project Name: Paccar / Mighty USA. Date: 2-17-04
Project Address: 19600 Normandie Av. Job Number: 414-61-35805
Building Number: "A" Area/Room:
Project Supevisor: Jose Ramera.

Import Contact with Client:

| Name | Time | Description |
|---|---|---|
| — | | |
| — | | |

Subcontractors/Rental Company on Jobsite:

| Subcontractor | Supervisor | Description |
|---|---|---|
| — | | |
| — | | |

What type of work on this project? Asbestos ☐ Lead ☑ Mold ☐ Soft Demo ☐

T & M Project? YES☐ NO☑

Manifest # N/A EPA# USED

Type Waste Asb. Haz ☐ Asb.Non-Haz ☐ Lead ☑ Mastic Asb. ☐ Trash/Construction Debris ☐

Shower Filtration Log:

| Machine # | Date | Change Time of Filters |
|---|---|---|
| | | |
| — | | |

Unusual Conditions/Changes to Scope of Work:

Waste Stored Where on Jobsite?

Number of Bags This Shift? Each/Drum

Type of Waste: Asb. Friable ☐ Asb. Non Friable ☐ Lead ☐ Light Balance ☐ Light Tubes ☐

**American Technologies, Inc.**
**American Restoration**

# Daily Log Report

Project Name: PACCARD / MIGHTY USA. Date: 2-12-04

Project Address: 19600 Normandie av. Job Number: 419-61-35805

Building Number: A Area/Room:

Project Supevisor: Jose Barrera.

Work Accomplished this Shift:

7:00 Arrived at the jobsite and get guys suit-up, get Clearances for Building "B" tear down.
put two guys to Remove Chemical from 7 post in Building "A", cleaned, neutralized, Re painted with orange pain Free lead.
put two guys to continue encapsulating window putty on windows on North side of Building aproxx. 18 windows Hepavac, Bagged all Loose putty.

3:00 WALK Area with Consultant Kevin from Hart Crowler Inspect All abated areas, get visual Clearances.
Bags and Drums to Be pick-up on a later day.
Aproxx. 30 Bags and 3 Drums.
waste to Be caracterized.

American Technologies, Inc.
American Restoration

# Containment Entry Log

Project Name: PACCAR / Mighty U14 Job Number: 419-61-35805

Date: 2-17-04 Containment Area Building "A"

| Name | Time In | Time Out | Time In | Time Out | Time In | Time Out |
|---|---|---|---|---|---|---|
| Henry Martinez | 7:00 | 11:00 | 12:00 | 3:30 | | |
| Miguel Sanchez | ↓ | ↓ | ↓ | ↓ | | |
| Jose Murguia | | | | | | |
| Walter Pastero | | | | | | |

**American Technologies, Inc.**
**American Restoration**

# Project Respirator Change Log

Project Name: Paccar / Mighty USA Job Number: 419-61-35805

Date: 2-17-04 Supervisor Jose Barrera.

☐ PAPR ☐ HALF FACE

| Name | Change Time | Change Time | Change Time | Change Time |
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**American Technologies, Inc.**
**American Restoration**

# SIGN IN SHEET

Project Name: Paccard / Mighty U.S.A. Date: 2-16-04

Project Address: 19600 Normandie Av. Job Number: 419-61-37805

Building Number: "A" Area/Room: Wharehouse.

Project Supevisor: Joe Barrera

| | Name | Signature | Start Time | End Time |
|---|---|---|---|---|
| 1 | Joe Barrera | | 7:00 | 3:30 |
| 2 | Walter platero | Walter Platero | | |
| 3 | Miguel Sanchez | MIGUEL SANCHEZ | | |
| 4 | Henry Martinez | | | |
| 5 | Jose Munguia | Jose munguia | | |
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American Technologies, Inc.
American Restoration

# Daily Jobsite Log

Project Name: Paccard / Mighty USA. Date: 2-16-04
Project Address: 19600 Normandie av. Job Number: 419-61-35805
Building Number: "A" Area/Room: Whatehouse
Project Supevisor: Jose Barrera.

Import Contact with Client:

| Name | Time | Description |
|---|---|---|
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Subcontractors/Rental Company on Jobsite:

| Subcontractor | Supervisor | Description |
|---|---|---|
| — | | |
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What type of work on this project? Asbestos ☐ Lead ☑ Mold ☐ Soft Demo ☐

T & M Project? YES☐ NO☑

Manifest # NA EPA# USED

Type Waste Asb. Haz ☐ Asb.Non-Haz ☐ Lead ☑ Mastic Asb. ☐ Trash/Construction Debris ☐

Shower Filtration Log:

| Machine # | Date | Change Time of Filters |
|---|---|---|
| — | | |
| — | | |

Unusual Conditions/Changes to Scope of Work:
NO

Waste Stored Where on Jobsite? Yes (Building "B").

Number of Bags This Shift? Each/Drum

Type of Waste: Asb. Friable ☐ Asb. Non Friable ☐ Lead ☑ Light Balance ☐ Light Tubes ☐

PACCAR 01674

**American Technologies, Inc.**
**American Restoration**

# Daily Log Report

Project Name: PACCARD / MIGHTY USA. Date: 2-16-04

Project Address: 19600 Normandie AV. Job Number: 419-61-35805

Building Number: "A" Area/Room: Wharehouse

Project Supevisor: Jose Barrera.

Work Accomplished this Shift:

7:00 put two guys to Remove Lead base paint chips IN "7" POST IN Building "A" previously put on chemical (peel away 7) DID NOT Come out good and Use another chemical call "piranha 5" put ON IN 7 POST again TO Remove NEXT Day.

Also put two guys to encapsulate window putty thru out windows IN Building "A" on South side of Building. Aprox. 15 windows. pick-up ALL visible Debrise from putty, Hepa VAC. , Baggedd.

American Technologies, Inc.
American Restoration

# Containment Entry Log

Project Name: PACCARD / OWATTY USA. Job Number: 419-61-35805

Date: 2-16-04 Containment Area Building "A"

| Name | Time In | Time Out | Time In | Time Out | Time In | Time Out |
|---|---|---|---|---|---|---|
| Joe Munguia | 7:00 | 11:00 | 12:00 | 3:30 | | |
| Walter Platero | ↓ | ↓ | ↓ | ↓ | | |
| Henry Martinez | | | | | | |
| Miguel Jarenez | | | | | | |

American Technologies, Inc.
American Restoration

# Project Respirator Change Log

Project Name: PACCARD / MIGHTY UTA. Job Number: 414-61-35805

Date: 2-16-04 Supervisor Jose Barrera.

☐ PAPR ☑ HALF FACE

| Name | Change Time | Change Time | Change Time | Change Time |
|---|---|---|---|---|
| Miguel Sanchez | 7:00 | | | |
| Walter Platero | ↓ | | | |
| Jose Minguia | ↓ | | | |
| Henry Martinez | ↓ | | | |
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**American Technologies, Inc.**
**American Restoration**

# Daily Project Safety Meeting

Job Name: Paccar / Marty USA. Job Number: 414-61-35805

Project Address: 19600 Normandie Av.

Supervisor Name: Jose Barrera.

Date of Safety Meeting: 2-16-04 Time of Safety Meeting: 7:00

Site Specific Safety Issues Discussed:

1. 
2. 
3. 
4. 
5. 

Site Specific Project Hazards to be aware of:

1. 
2. 
3. 
4. 
5. 

- ☐ Nearest Hospital Address/ Phone # Posted
- ☑ Asb. Certs, Med., Fit Test
- ☑ Haz. Wopper Certs, Med., Fit Test
- ☐ HVAC Shutdown/ Sealed Off
- ☐ LAFD Permit Posted
- ☐ Fire Permit/ Hot Work
- ☑ ATI Handbook Onsite
- ☑ Co. Postal Paperwork Posted
- ☑ Signs/ Fagging Posted at all Entrances to Containment
- ☑ Co. Medical Location Posted
- ☑ Lead Certs. Med., Fit Test
- ☐ Emergency Contact List Posted
- ☐ Electrical Lockout/ Tag Out
- ☐ Confined Space Permit
- ☑ MSDS Book Onsite
- ☑ Health Safety ATI Book Onsite
- ☑ Notification Posted
- ☑ Site Survey Onsite
- ☐ Mold Certification, Medical Fit Test

**Personal Protective Equipment:**

- ☐ Hard Hat
- ☑ Rubber Gloves
- ☑ Tyvek Suit
- ☑ Safety Eye Protection
- ☑ Respiration Protection
- ☑ Leather Gloves
- ☑ Rubber Boots
- ☐ Standard Disposable Suit
- ☐ Work Boots
- ☐ Safety Neon Vest
- ☐ Cotton Gloves

# Daily Project Safety Meeting (Cont.)

**Electrical Hand Tools/ Electrical Cords:**
- ☑ GFI Hook Up on all Electrical Equipment
- ☐ Lights w/Guard/ Glass Cover
- ☑ Electrical Cords No Bare wire/ Cuts/ Grounds Complete
- ☐ Manufacture Guard on Hard Tools such as Skill Saw, Peanut Grinder, Sawzall, Nutech Test
- ☐ Spiderboy/ Cord Checked Prior to Use

**Welding Equipment:**
- ☐ Fire Blanket
- ☐ Eye Protection, Face Shield
- ☐ Welding Gloves
- ☐ Water Hose Present
- ☐ Gages in Good Working Condition
- ☐ Fire Extinguisher Present
- ☐ Welding PPE Body Covering
- ☐ Hoses Checked for Cuts and Perforations
- ☐ Tank Caps Secured
- ☐ Full/ Empty Signs Posted on Tanks
- ☐ Tanks Stored Correctly – Locked Chain to Solid Structure of Building

**Pneumatic Tools:**
- ☐ Connection Hoses Secured
- ☐ Guards on Pneumatic Tools
- ☐ Proper Lubrication on Pneumatic Tools

**Safety Equipment:**
- ☑ Eye Wash Station
- ☑ Eye Wash Bottle
- ☑ First Aid Kit
- ☑ Fire Extinguisher
- ☑ LAFD Emergency Box

**Fall Protection:**
- ☐ Chute Secured
- ☐ Cable Secured
- ☐ Guardrails
- ☐ Barrier Line with Spoter
- ☐ Ladder Tied Off
- ☐ Safety Harness Used by Crew Members
- ☐ Holes in Roof Covered/ Marked

**Ladders:**
- ☑ Check/ Inspect
- ☑ No Standing on Top Two Steps of Ladder
- ☑ Extension Ladder Tied Off

**Rental Equipment:**
- ☐ Checked and Inspected Prior to Use
- ☐ Safety Harness Used by Crew Members

**Signatures:**

1. _____
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PACCAR 01679

**American Technologies, Inc.**
**American Restoration**

# SIGN IN SHEET

Project Name: PACCAR / MIGTY USA. Date: 2-13-04

Project Address: 19600 Normandie AV. Job Number: 419-61-3580J

Building Number: "B", "A" Area/Room: Offices, Warehouse

Project Supevisor: Jose Barrera

| # | Name | Signature | Start Time | End Time |
|---|---|---|---|---|
| 1 | Jose Barrera | | 7:00 | 3:30 |
| 2 | Jose Munguia | | ↓ | ↓ |
| 3 | Harry Martinez | | | |
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**American Technologies, Inc.**
**American Restoration**

# Daily Jobsite Log

Project Name: Paccard / Military USA. Date: 2-13-04
Project Address: 19600 Normandie av. Job Number: 419-61-35805
Building Number: B. A Area/Room:
Project Supevisor: Joe Camera

Import Contact with Client:

| Name | Time | Description |
|---|---|---|
| | | |
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Subcontractors/Rental Company on Jobsite:

| Subcontractor | Supervisor | Description |
|---|---|---|
| | | |
| | | |

What type of work on this project? Asbestos ☑ Lead ☑ Mold ☐ Soft Demo ☐

T & M Project? YES☐ NO☑

Manifest # NA EPA# USED

Type Waste Asb. Haz ☐ Asb.Non-Haz ☐ Lead ☑ Mastic Asb. ☐ Trash/Construction Debris ☐

Shower Filtration Log:

| Machine # | Date | Change Time of Filters |
|---|---|---|
| | | |
| | | |

Unusual Conditions/Changes to Scope of Work: NO

Waste Stored Where on Jobsite? NA

Number of Bags This Shift? Each/Drum

Type of Waste: Asb. Friable ☐ Asb. Non Friable ☐ Lead ☐ Light Balance ☐ Light Tubes ☐

**American Technologies, Inc.**
**American Restoration**

# Daily Log Report

Project Name: Paccar / Mighty Ltd. Date: 2-13-04

Project Address: 19600 Normandie Av. Job Number: 419-61-37805

Building Number: B, A Area/Room: Warehouse

Project Supevisor: Joe Barrera

Work Accomplished this Shift:

7:00 1 guy to encapsulate stucco area in Building "B" and windows. (2)
at the same time another guy to put chemical in 7 pot in Building "A" with lead orange paint
Use peel-away 7

12:00 After lunch scrape loose and flaky paint from orange beam in center of Building "A" South side approx. 140 LF. encapsulated all area abated. paint chips inside drum.

American Technologies, Inc.
American Restoration

# Containment Entry Log

Project Name: Paccar / Mighty USA Job Number: 419-61-3580J

Date: 2-13-04 Containment Area Bus Bay "A"

| Name | Time In | Time Out | Time In | Time Out | Time In | Time Out |
|---|---|---|---|---|---|---|
| Joe Murguia | 12:00 | 3:30 | | | | |
| Harry Martinez | 12:00 | 3:30 | | | | |

American Technologies, Inc.
American Restoration

# Project Respirator Change Log

Project Name: Paccaro / Mwatty USA. Job Number: 414-61-35805

Date: 2-13-04 Supervisor Joe Barrera.

☐ PAPR ☑ HALF FACE

| Name | Change Time | Change Time | Change Time | Change Time |
|---|---|---|---|---|
| Jose Munguia | 12:00 | | | |
| Henry Martinez | 12:00 | | | |

**American Technologies, Inc.**
**American Restoration**

# SIGN IN SHEET

Project Name: PACCARD Date: 2-12-04

Project Address: 19600 Normandie Av. Job Number: 419-61-35805

Building Number: "B" Area/Room: Offices.

Project Supevisor: Jose Barrera

| | Name | Signature | Start Time | End Time |
|---|---|---|---|---|
| 1 | Jose Barrera | | 7:00 | 3:30 |
| 2 | Jose Murguia | | ↓ | 3:30 |
| 3 | Henry Martinez | | | 3:30 |
| 4 | Gustavo Desiderio | Gustavo Desiderio | | 11:00 |
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**American Technologies, Inc.**
**American Restoration**

# Daily Jobsite Log

Project Name: Paccard / Mvety USA. Date: 2-12-04
Project Address: 19600 Normandie Av. Job Number: 419-61 - 35805
Building Number: B Area/Room: Offices.
Project Supevisor: Joe Barnard

Import Contact with Client:

| Name | Time | Description |
|---|---|---|
| — | | |
| — | | |

Subcontractors/Rental Company on Jobsite:

| Subcontractor | Supervisor | Description |
|---|---|---|
| — | | |
| — | | |

What type of work on this project? Asbestos ☑ Lead ☐ Mold ☐ Soft Demo ☐

T & M Project? YES☐ NO☑

Manifest # N.A. EPA# USED _____ _____

Type Waste Asb. Haz ☐ Asb.Non-Haz ☑ Lead ☐ Mastic Asb. ☐ Trash/Construction Debris ☐

Shower Filtration Log:

| Machine # | Date | Change Time of Filters |
|---|---|---|
| — | | |
| — | | |

Unusual Conditions/Changes to Scope of Work:
N.A.

Waste Stored Where on Jobsite?
N.A.

Number of Bags This Shift? _____ Each/Drum

Type of Waste: Asb. Friable ☐ Asb. Non Friable ☑ Lead ☐ Light Balance ☐ Light Tubes ☐

**American Technologies, Inc.**
**American Restoration**

# Daily Log Report

Project Name: Paccar / Renton WA. Date: 2-12-04

Project Address: 14600 Normandie Av. Job Number: AM-61-3580T

Building Number: "B" Area/Room: Offices.

Project Supevisor: Joe Barrera.

Work Accomplished this Shift:

7:00 Arrived at the job-site and Build Containment in Building "B", Critical Barrier on windows and doors, Negative air, Decon unit, warning tape, Plastic on floor To Remove Drywall Damage in Bathroom area.

10:00 get guys set-up and Remove wet ACM. on Drywall Damaged in Bathroom, Bagged, detail all edges.

1:00 Bag out, clean work area, encapsulated.

2:00 Remove loose tiles in offices above door, and Base cove in Hall entrance.

American Technologies, Inc.
American Restoration

# Containment Entry Log

Project Name: Paccard / Mighty USA. Job Number: 419-61-35805

Date: 2-12-04 Containment Area Upper Cases Building B

| Name | Time In | Time Out | Time In | Time Out | Time In | Time Out |
|---|---|---|---|---|---|---|
| Joe Barrera | 7:00 | 11:00 | — | — | | |
| Joe Munguia | ↓ | ↓ | 12:00 | 3:30 | | |
| Henry Martinez | | | 12:00 | 3:30 | | |
| Gustavo Derzerio | | | — | — | | |

American Technologies, Inc.
American Restoration

# Project Respirator Change Log

Project Name: PACCAR Job Number: 419-61-35805

Date: 2-12-04 Supervisor Joe Barrera

☐ PAPR ☑ HALF FACE

| Name | Change Time | Change Time | Change Time | Change Time |
|---|---|---|---|---|
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**American Technologies, Inc.**
**American Restoration**

# Negative Air Daily Report

Project Name: Paccard / Newby USA. Job Number: 419-01-35805

Date: 2-12-04 Supervisor Jose Barrera

Containment Area: Building "B"

| | | Time | Time | Time | Time | Time | Time |
|---|---|---|---|---|---|---|---|
| NEG AIR # | Pre Filter | 10:30 | 12:00 | 3:00 | | | |
| AT016 | Secondary Filter | | | 3:00 | | | |
| NEG AIR # | Pre Filter | | | | | | |
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# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
## ASBESTOS INSPECTION REPORT

| | | | |
|---|---|---|---|
| SITE ADDRESS | 19600 Normandie Av. | NOTIF # | INSPECTION DATE |
| CONTRACTOR NAME | | CONTRACTOR AEIS ID# | |

| | | YES | NO | COUNT # |
|---|---|---|---|---|
| Demolition or renovation work going on | | ☒ | ☐ | |
| Wet demolition (403) | (145c 9) | ☒ | ☐ | |
| Permitted HEPA vacuums or negative air machines (201, 203) | | ☒ | ☐ | |
| Disturbed, handled or removed ACM that contain more than 1 % asbestos. Type of proof | | ☐ | ☒ | |
| Disturbed, handled or Removed more than 100 square feet of ACM. Quantify | | ☐ | ☒ | |

| 1403(d)(1) SEC | WORK SITE REQUIREMENTS | 40CFR61 SEC | YES | NO | COUNT # |
|---|---|---|---|---|---|
| A | Asbestos Survey prior to demolition and/or renovation | (145a) | ☒ | ☐ | 1 |
| A(viii) | Asbestos Survey conducted by a Certified CAL OSHA Surveyor | | ☒ | ☐ | 2 |
| B | Notification postmarked 10 working days prior to renovation / demolition | (145b3i) | ☒ | ☐ | 3 |
| B(vi) | Notification updates submitted as required (revisions) | (145b2) | ☐ | ☐ | 4 |
| C | Removed asbestos prior to demolition or renovation NOTIF# | (145c1) | ☒ | ☐ | 5 |
| D | Used required asbestos removal procedures | | ☒ | ☐ | 6 |
| D(i) | Procedure 1 - Removed asbestos within containment | (145c 3iB1) | ☐ | ☐ | 7 |
| I | Covered non working surfaces | | ☐ | ☐ | 8 |
| II | Isolated work area free of gaps and tears, and air tight | | ☐ | ☐ | 9 |
| III | Restricted air movement | | ☐ | ☐ | 10 |
| IV | Containment with viewing ports | | ☐ | ☐ | 11 |
| V | Filtering work area air with HEPA system | (145c 3) | ☐ | ☐ | 12 |
| VI | HEPA filter(s) free of tears or damage | (152b2) | ☐ | ☐ | 13 |
| VII | Wetting asbestos during removal | (145c 3) | ☐ | ☐ | 14 |
| D(ii) | Procedure 2 - Glovebag or Mini enclosures | (145c 3iB2) | ☐ | ☐ | 15 |
| D(iii) | Procedure 3- Wetting, drop cloths, tenting, manual removal | (145c 2i) | ☒ | ☐ | 16 |
| D(iv) | Procedure 4- Approved dry removal | (145c 3ii) | ☐ | ☐ | 17 |
| D(v) | Procedure 5- Approved alternative techniques plan | (145c 3ii) | ☐ | ☐ | 18 |
| | On site copy of written approval for Procedure 4 & 5 Plans | (145c 3iii) | ☐ | ☐ | 19 |
| E | Collected and placed all asbestos waste in leak tight transparent bags | (145c 3) | ☒ | ☐ | 20 |
| E(i) | Handled asbestos carefully without damaging or disturbing it | (145c 6ii) | ☒ | ☐ | 21 |
| E(ii) | Lowered asbestos waste to ground via leak-tight chute if > 50 ft | (145c 6iii) | ☒ | ☐ | 22 |
| E(iii) | Wetted/encapsulated asbestos waste | (145c 6i) | ☒ | ☐ | 23 |
| E(iv) | Cleaned work area free of asbestos waste | | ☒ | ☐ | 24 |
| G | On site supervisor with training proof and present during asbestos removal | (145c 8) | ☒ | ☐ | 25 |
| H | On site proof of CSLB License and OSHA Registration | | ☒ | ☐ | 26 |
| I | Locked the on site storage waste bin and placed the bin in an enclosed area. | | ☒ | ☐ | 27 |
| J | Disposed of waste at an asbestos waste disposal landfill per 1403d3 | (150b1) | ☒ | ☐ | 28 |
| K | Labeled and marked the asbestos waste bags per 1403e1A & B | (150a1iv) | ☒ | ☐ | 29 |
| L | Marked transportation vehicle during loading and unloading of asbestos per 1403e | (150c) | ☒ | ☐ | 30 |
| M | Prepared asbestos waste shipment records per R1403f1 | (150d1) | ☒ | ☐ | 31 |
| N | Maintained records of removal/demolition project per 1403g (jobs < 100 sq ft) | | ☒ | ☐ | 32 |
| d(2) | stored ACWM in an enclosed locked area in leak tight containers with R1403e1 labels | | ☐ | ☐ | 33 |
| h(1) | Used required sampling techniques and test methods during survey..(AHERA/NVLAP) | | ☒ | ☐ | 34 |
| i | On site supervisor and workers have certified asbestos training (AHERA) | | ☒ | ☐ | 35 |

| | | | | |
|---|---|---|---|---|
| INSPECTION TYPE | DEMOLITION ☐ | RENOVATION ☐ | NESHAP ☐ | PROCEDURE 5 ☐ | COMPLAINT # |
| DISPOSTION | OC ☐ NO ☐ | NC # | NOV # | NC/NOV DATE |
| NUMBER OF SAMPLES COLLECTED | | NUMBER OF PHOTOGRAPHS TAKEN | | |
| INSPECTOR SIGNATURE | | | | REPORT DATE |
| SUPERVISOR SIGNATURE | | | | REVIEW DATE |



(R1403\1403 asbestos inspection checklis.doc - SV20030107)

PACCAR 01691

# RESPIRATOR FIT TEST AND TRAINING ACKNOWLEDGEMENT

RE - FIT ✓ RE - HIRE _____ NEW HIRE _____

EMPLOYEE NAME: Walter Platero

DATE OF FIT TEST: 2-7-04

XPIRATION DATE: 2-7-05

ESPIRATOR(S) TESTED

| 1.RACAL PAPR | | 2. NORTH 7600 Full-Face | | 3. NORTH 7700 1/2 Face | | 4. Other | |
|---|---|---|---|---|---|---|---|
| SIZE. | S M L | SIZE: | S M L | SIZE | S M L | SIZE· | S M L |
| YPE OF TEST | | | | | | | |
| QUANTITATIVE | | QUANTITATIVE | | QUANTITATIVE | | QUANTITATIVE | |
| QUALITATIVE | X | QUALITATIVE | X | QUALITATIVE | X | QUALITATIVE | |
| Isoamyl Acetate | | Isoamyl Acetate | | Isoamyl Acetate | | Isoamyl Acetate | |
| Irritant Smoke | X | Irritant Smoke | X | Irritant Smoke | X | Irritant Smoke | |
| EST EXERCISES | | | | | | | |
| X | Positive/Negative Pressure Test | X | Positive/Negative Pressure Test | X | Positive/Negative Pressure Test | | Positive/Negative Pressure Test |
| X | Normal Breathing | X | Normal Breathing | X | Normal Breathing | | Normal Breathing |
| X | Deep Breathing | X | Deep Breathing | X | Deep Breathing | | Deep Breathing |
| X | Turn Head Side To Side | X | Turn Head Side To Side | X | Turn Head Side To Side | | Turn Head Side To Side |
| X | Nod Head Up & Down | X | Nod Head Up & Down | X | Nod Head Up & Down | | Nod Head Up & Down |
| X | Grimace | X | Grimace | X | Grimace | | Grimace |
| X | Bend Over & Touch Toes | X | Bend Over & Touch Toes | X | Bend Over & Touch Toes | | Bend Over & Touch Toes |
| X | Jogging In Place | X | Jogging In Place | X | Jogging In Place | | Jogging In Place |
| X | Breathe Normally | X | Breathe Normally | X | Breathe Normally | | Breathe Normally |

NAME OF CLINIC: Cocentra Medical Center

DATE OF PHYSICAL: _____

THIS CERTIFIES THAT THE ABOVED NAMED TEST SUBJECT HAS BEEN INFORMED OF THE HAZARDS INVOLVED IN WORKING WITH HAZARDOUS MATERIALS, AND HAS BEEN GIVEN INSTRUCTIONS IN THE USE AND CARE OF THE RESPIRATOR(S) SELECTED.

INSTRUCTOR SIGNATURE Mario Cuevas DATE 2-7-04

I certify that I understand that exercises which have been shown to me today in properlyu fitting my respirator. I have been instructed about how to properly clean and maintain the respirator , and how to field test and inspect my respirator. An individual has been available to interpret this in the event that I do not speak English.

NDIVIDIO HA SIDO DISPONIBLE PARA INTERPRETAR ESTA INFORMACION EN EL EVENTO QUE NO HABLO INGLES.

EMPLOYEE SIGNATURE Walter Platero. DATE _____ CURRENT PHONE # _____

jmr 2/5/2004

# *Certificate Of Completion*

## Walter Platero

(Ending four digits) SS#: 9530

*Has attended and satisfactorily completed the contents of the course entitled:*

**NATEC**

***Asbestos Worker Refresher Course***

*Course Approval Number CA-0 15-1 2*

**INTERNATIONAL**

*Certificate Number*: **AAWR010304011N**
*Course Director*: **Alan D. Dages**
*Officer:* **Alan D. Dages President**
*Officer Signature:*

*Course Start Date*: **01/03/04**
*Course End Date:* **01/03/04**
*Expiration Date*: **01/02/05**
*Instructor:* **Guillermo Renteria**

*This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California*

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

Concer Occupational Med Centers AX
2110 East Katella Ave Anaheim, CA 92806
Phone. (714) 937-1919 Fax. (714) 937-1966

# EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

**PLOYER TO COMPLETE THE FOLLOWING :**

Employee Name: Plateros, Walter E.

Employer: American Tech

Address: 3826 Walton Avenue

LOS ANGELES CA 90037

Employee SSN: 612-68-9530

**Check Type of Respirator(s) To Be Used** (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

**Extent of Useage** (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

**Expected Physical Effort Required** (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

**Exposure to Hazardous Materials** (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

**Special Work Conditions**
**(Check ✓ALL That Apply When Wearing Respirator)**

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

**PHYSICIAN WILL COMPLETE THE FOLLOWING**

report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act .) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- *First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.*

**Based upon my findings, I have determined that this individual** (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Occupational Med Centers-L prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at Concentra Occupational Med C
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Occupational Med Centers-L of his/her findings to

**(Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910 134 This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134
- ☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

Physician's Signature: _____ Physician's Name (Printed): Jesse Zapata PA

Physician's License Number (Optional in Most States): PA 1631 CA

Date of Exam: 7/15/03 Expires On: 7/15/03

Concentra Occupational Med Centers-L A Y

2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1966

**Medical Surveillance - Asbestos**

**Service Date:** 07/15/2003

| | | | |
|---|---|---|---|
| **Patient:** | Plateros, Walter E. | **Job Title:** | |
| **SSN:** | 612-68-9530 | **Employer:** | American Tech/Asbestos |
| **DOB:** | 12/06/1970 | **Address:** | 1802 Talbot Way |
| **Gender:** | M | | ANAHEIM, CA 92805 |
| **Marital Status:** | M | **Job Contact:** | Isabel Galvan |
| **Address:** | 3826 Walton Avenue | **Role:** | Primary Contact |
| | LOS ANGELES, CA 90037 | **Phone:** | (714) 939-4940 **Ext.:** |
| **Home Phone:** | (323) 737-8053 | **Fax:** | |
| **Work Phone:** | **Ext.:** | **Race:** | ASIAN BLACK HISPANIC INDIAN WHITE OTHER |

The above individual was seen on 07/15/2003 in accordance with: ✓ 29 CFR 1926.1101.
✓ 40 CFR 763.121.

**The following was performed:**

- ☑ Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- ☑ Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- ☑ Review of information from previous medical examinations if available.
- ☑ A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- ☑ A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- ☐ A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- ☑ NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- ☑ The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

Provider Signature

7/15/03
Date



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Concer . Occupational Med Centers AX
2110 East Katella Ave Anaheim, CA 92806
Phone: (714) 937-1919 Fax. (714) 937-1966

# PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

**Service Date:** 07/15/2003

**Employee Name:** Plateros, Walter E.

**Employee SSN:** 612-68-9530

**Address:** 3826 Walton Avenue

LOS ANGELES CA 90037

**Employer:** American Tech

**You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)**

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Occupational Med Centers-L so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

**(Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134 This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- ☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

Jesse Zepeda PA-C
PLHCP Name (printed)

Plateros, Walter.
Employee's Signature

7/15/04
Expiration Date

[1]Physician or other Licensed Healthcare Professional

**To be maintained in the employee's file with a copy to the employee**



PACCAR 01696

# RESPIRATOR FIT TEST AND TRAINING ACKNOWLEDGEMENT

RE - FIT ✓ RE - HIRE _____ NEW HIRE _____

EMPLOYEE NAME: Miguel Sanchez

DATE OF FIT TEST: 2-7-04

EXPIRATION DATE: 2-7-05

RESPIRATOR(S) TESTED

| 1.RACAL PAPR | 2. NORTH 7600 Full-Face | 3. NORTH 7700 1/2 Face | 4. Other |
|---|---|---|---|
| SIZE S M L | SIZE S M L | SIZE S M L | SIZE S M L |
| TYPE OF TEST | | | |
| QUANTITATIVE | QUANTITATIVE | QUANTITATIVE | QUANTITATIVE |
| QUALITATIVE X | QUALITATIVE X | QUALITATIVE X | QUALITATIVE |
| Isoamyl Acetate | Isoamyl Acetate | Isoamyl Acetate | Isoamyl Acetate |
| Irritant Smoke X | Irritant Smoke X | Irritant Smoke X | Irritant Smoke |
| TEST EXERCISES | | | |
| X Positive/Negative Pressure Test | X Positive/Negative Pressure Test | X Positive/Negative Pressure Test | Positive/Negative Pressure Test |
| X Normal Breathing | X Normal Breathing | X Normal Breathing | Normal Breathing |
| Deep Breathing | X Deep Breathing | X Deep Breathing | Deep Breathing |
| X Turn Head Side To Side | X Turn Head Side To Side | X Turn Head Side To Side | Turn Head Side To Side |
| X Nod Head Up & Down | X Nod Head Up & Down | X Nod Head Up & Down | Nod Head Up & Down |
| X Grimace | X Grimace | X Grimace | Grimace |
| X Bend Over & Touch Toes | X Bend Over & Touch Toes | X Bend Over & Touch Toes | Bend Over & Touch Toes |
| X Jogging In Place | X Jogging In Place | X Jogging In Place | Jogging In Place |
| X Breathe Normally | X Breathe Normally | X Breathe Normally | Breathe Normally |

NAME OF CLINIC: Cocentra Medical Center

DATE OF PHYSICAL: _____

THIS CERTIFIES THAT THE ABOVED NAMED TEST SUBJECT HAS BEEN INFORMED OF THE HAZARDS INVOLVED IN WORKING WITH HAZARDOUS MATERIALS, AND HAS BEEN GIVEN INSTRUCTIONS IN THE USE AND CARE OF THE RESPIRATOR(S) SELECTED.

INSTRUCTOR SIGNATURE Maria Cuevas DATE 2-7-04

I certify that I understand that exercises which have been shown to me today in properlyu fitting my respirator. I have been instructed about how to properly clean and maintain the respirator , and how to field test and inspect my respirator. An individual has been available to interpret this in the event that I do not speak English.
UN INDIVIDIO HA SIDO DISPONIBLE PARA INTERPRETAR ESTA INFORMACION EN EL EVENTO QUE NO HABLO INGLES.

EMPLOYEE SIGNATURE Miguel Sanchez DATE 02/07/04 CURRENT PHONE # 7145315549

jmr 2/5/2004

# *Certificate Of Completion*

## Miguel Sanchez

(Ending four digits) SS#: 7795

*Has attended and satisfactorily completed the contents of the course entitled:*

**NATEC**

***Asbestos Worker Refresher Course***

*Course Approval Number CA-0 15-1 2*

**INTERNATIONAL**

*Certificate Number*: **AAWR010304008N**
*Course Director*: **Alan D. Dages**
*Officer:* **Alan D. Dages President**
*Officer Signature:*

*Course Start Date*: **01/03/04**
*Course End Date:* **01/03/04**
*Expiration Date*: **01/02/05**
*Instructor:* **Guillermo Renteria**

*This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California*

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

MEDTOX LABORATORIES INC
402 WEST COUNTY ROAD D
ST. PAUL, MN 55112
651-636-7466

Jeffer A. Collins, Ph.D.
Dr Mark Catlin, M.D.
Karla Walker, Pharm.D.

## COMPUTER-GENERATED FACSIMILE LABORATORY REPORT

CONCENTRA MED.CTR/BIOLOGICAL TEST
ATTN:SHAWN WELDE/VICTOR CASTRO
2110 EAST KATELLA AVENUE
ANNAHEIM, CA 92806

PATIENT NAME: SANCHEZ,BERNARDO MIGUEL
Social Security: 618-16-7795
PATIENT I.D. NO.: M1049724
AGE: 37
SEX: M
SPECIMEN: D4330372
DOB: 02/11/1966

MANN,EMERSON/

| DATE COLLECTED | TIME COLLECTED | DATE RECEIVED | DATE REPORTED |
|---|---|---|---|
| 01/27/2004 | 20:15 | 01/30/2004 | 01/31/2004 7:05AM |

| TEST(S) REQUESTED | RESULTS | UNITS | THERAPEUTIC RANGE |
|---|---|---|---|
| LEAD AND ZINC PROTOPORPHYRIN (ZPP),OCCUPATIONAL EXPOSURE | | | |
| LEAD,BLOOD--OCCUPATIONAL EXPOSURE | | | |
| LEAD | 2 | ug/dl | <40 |
| STATE REPORTED TO: | CA | | |
| SAMPLE TYPE | VENOUS | | |
| OSHA GUIDELINE: | LESS THAN 40 ug/dl | | |
| ZINC PROTOPORPHYRIN (ZPP) | | | |
| ZINC PROTOPORPHYRIN | 22 | ug/dl | <100 |
| OSHA GUIDELINE: | LESS THAN 100 ug/dl | | |

*** FINAL REPORT ***

Concentra Occupational Med Centers-LAX
2110 East Katella Ave Anaheim, CA 92806
Phone: (714) 937-1919 Fax: (714) 937-1095

Service Date: 01/20/2004

## Medical Surveillance - Asbestos

| | | | |
|---|---|---|---|
| Patient: | Sanchez, Miguel | Job Title: | |
| SSN: | 618-16-7795 | Employer: | American Tech/Asbestos |
| DOB: | 02/11/1966 | Address: | 210 Baywood Ave |
| Gender: | M | | |
| Marital Status: | M | | ORANGE, CA 92865 |
| | | Job Contact: | Ruth |
| Address: | 10522 Barbette Avenue | Role: | Primary Contact |
| | Garden Grove | Phone: | (714) 283-9990 Ext.: |
| | GARDEN GROVE, CA 92843 | Fax: | (714) 283-9995 |
| Home Phone: | (714) 531-8549 | | |
| Work Phone: | Ext.: | Race: | ASIAN BLACK HISPANIC INDIAN WHITE OTHER |

The above individual was seen on 01/20/2004 in accordance with: ____29 CFR 1926.1101.
____40 CFR 763.121.

**The following was performed:**

- [x] Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- [ ] Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- [ ] Review of information from previous medical examinations if available.
- [x] A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- [x] A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- [ ] A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- [ ] NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- [x] The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

Provider Signature

1/20/05
Date



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Concen Occupational Med Centers AX
2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1095

# PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

ervice Date: 01/20/2004

Employee Name:
anchez, Miguel

Employee SSN: 618-16-7795

Address:
10522 Barbette Avenue
Garden Grove
GARDEN GROVE CA 92843

Employer: American Tech

**You were evaluated in this office of your medical status related to your physical capability o wear a respirator. (Check ✓ one that applies)**

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

_____

_____

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ equire further testing by your private physician who must submit a written report of his/her findings to **oncentra Occupational Med Centers-L** so that a final decision on your ability to wear a respirator can be made.
- ☐ *Must wear Special prescription eye-wear needed to accommodate respirator.*
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

**(Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

BRYAN DANG
ICP Name (printed)

Employee's Signature

1/20/05
Expiration Date

[1]Physician or other Licensed Healthcare Professional

**To be maintained in the employee's file with a copy to the employee**

Concen Occupational Med Centers AX
2110 East Katella Ave Anaheim, CA 92806
Phone: (714) 937-1919 Fax. (714) 937-1095

# EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

**EMPLOYER TO COMPLETE THE FOLLOWING :**

Employee Name: Sanchez, Miguel

Employer: American Tech

Address:
10522 Barbette Avenue
Garden Grove
GARDEN GROVE CA 92843

Employee SSN: 618-16-7795

**Check Type of Respirator(s) To Be Used** (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

**Special Work Conditions** (Check ✓ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

**Extent of Useage** (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

**Expected Physical Effort Required** (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

**Exposure to Hazardous Materials** (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

**PHYSICIAN WILL COMPLETE THE FOLLOWING**

report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act .A) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

**Based upon my findings, I have determined that this individual** (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Occupational Med Centers-L prior to respirator approval and usage.
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required.[2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at Concentra Occupational Med C
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks.

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Occupational Med Centers-L of his/her findings to

**(Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature: [signature]
Physician's Name (Printed): BRYAN DANG
Physician's License Number (Optional in Most States): A80925
Date of Exam: 1/20/04
Expires On: 1/20/05



PACCAR 01702

# RESPIRATOR FIT TEST AND TRAINING ACKNOWLEDGEMENT

RE - FIT ✓ RE - HIRE _____ NEW HIRE _____

EMPLOYEE NAME: Jose Munguia

DATE OF FIT TEST: 2-7-04

E PIRATION DATE: 2-7-05

R SPIRATOR(S) TESTED

| 1.RACAL PAPR | | 2. NORTH 7600 Full-Face | | 3. NORTH 7700 1/2 Face | | 4. Other | |
|---|---|---|---|---|---|---|---|
| SIZE: S M L | | SIZE: S M L | | SIZE S M L | | SIZE S M L | |
| T PE OF TEST | | | | | | | |
| QUANTITATIVE | | QUANTITATIVE | | QUANTITATIVE | | QUANTITATIVE | |
| QUALITATIVE | X | QUALITATIVE | X | QUALITATIVE | X | QUALITATIVE | |
| Isoamyl Acetate | | Isoamyl Acetate | | Isoamyl Acetate | | Isoamyl Acetate | |
| Irritant Smoke | X | Irritant Smoke | X | Irritant Smoke | X | Irritant Smoke | |
| T ST EXERCISES | | | | | | | |
| X | Positive/Negative Pressure Test | X | Positive/Negative Pressure Test | X | Positive/Negative Pressure Test | | Positive/Negative Pressure Test |
| X | Normal Breathing | X | Normal Breathing | X | Normal Breathing | | Normal Breathing |
| | Deep Breathing | X | Deep Breathing | X | Deep Breathing | | Deep Breathing |
| X | Turn Head Side To Side | X | Turn Head Side To Side | X | Turn Head Side To Side | | Turn Head Side To Side |
| X | Nod Head Up & Down | X | Nod Head Up & Down | X | Nod Head Up & Down | | Nod Head Up & Down |
| X | Grimace | X | Grimace | X | Grimace | | Grimace |
| X | Bend Over & Touch Toes | X | Bend Over & Touch Toes | X | Bend Over & Touch Toes | | Bend Over & Touch Toes |
| X | Jogging In Place | X | Jogging In Place | X | Jogging In Place | | Jogging In Place |
| X | Breathe Normally | X | Breathe Normally | X | Breathe Normally | | Breathe Normally |

NAME OF CLINIC: Cocentra Medical Center

ATE OF PHYSICAL: _____

HIS CERTIFIES THAT THE ABOVED NAMED TEST SUBJECT HAS BEEN INFORMED OF THE HAZARDS INVOLVED IN ORKING WITH HAZARDOUS MATERIALS, AND HAS BEEN GIVEN INSTRUCTIONS IN THE USE AND CARE OF THE RESPIRATOR(S) SELECTED.

NSTRUCTOR SIGNATURE Maria Guerra DATE 2-7-04

certify that I understand that exercises which have been shown to me today in properlyu fitting my respirator I have been structed about how to properly clean and maintain the respirator , and how to field test and inspect my respirator. An individual has been available to interpret this in the event that I do not speak English.

NDIVIDIO HA SIDO DISPONIBLE PARA INTERPRETAR ESTA INFORMACION EN EL EVENTO QUE NO HABLO INGLES.

EMPLOYEE SIGNATURE _____ DATE 2/1/04 CURRENT PHONE # _____

jmr 2/5/2004

# *Certificate Of Completion*

## Jose Munguia

(Ending four digits) SS#: 5585

*Has attended and satisfactorily completed the contents of the course entitled:*

NATEC

***Asbestos Worker Refresher Course***

*Course Approval Number CA-0 15-1 2*

INTERNATIONAL

*Certificate Number*: **AAWR013004014N**
*Course Director*: **Alan D. Dages**
*Officer:* **Alan D. Dages President**
*Officer Signature:*

*Course Start Date*: **01/30/04**
*Course End Date:* **01/30/04**
*Expiration Date*: **01/29/05**
*Instructor:* **John Vreeland**

*This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California*

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

# Concen . Occupational Med Centers AX

2110 East Katella Ave Anaheim, CA 92806
Phone. (714) 937-1919 Fax: (714) 937-1966

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

S vice Date: 12/08/2003

Employee Name:
M iguia, Ramiro J.

Employee SSN: 622-27-5585

Address:
4030 6th St.

LOS ANGELES CA 90023

E oloyer: American Tech

**You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)**

- [ ] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
- [ ] quire further testing by your private physician who must submit a written report of his/her findings to oncentra Occupational Med Centers-L so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

**(Check ✓ ALL that apply)**

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134 This limited evaluation is specific to respirator use only Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- [x] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

JESSE Zepeda PAC
PLHCP Name (printed)

Employee's Signature

12/8/04
Expiration Date

[1] Physician or other Licensed Healthcare Professional

**To be maintained in the employee's file with a copy to the employee**



PACCAR 01705

Concen ı Occupational Med Centers AX
2110 East Katella Ave Anaheim, CA 92806
Phone: (714) 937-1919 Fax: (714) 937-1966

# PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 12/08/2003

Employee Name: Munguia, Ramiro J.

Employee SSN: 622-27-5585

Address: 4030 6th St.

LOS ANGELES CA 90023

Employer: American Tech

**You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)**

- ☐ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- ☒ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
- ☐ Require further testing by your private physician who must submit a written report of his/her findings to Concentra Occupational Med Centers-L so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

**(Check ✓ ALL that apply)**

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910 134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
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- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

Jesse Zepeda PA
PLHCP Name (printed)

Employee's Signature

12/8/04
Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

# Concen ı Occupational Med Centers AX

2110 East Katella Ave Anaheim, CA 92806
Phone: (714) 937-1919 Fax: (714) 937-1966

## EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

..PLOYER TO COMPLETE THE FOLLOWING :

Employee Name: Munguia, Ramiro J.

Address: 4030 6th St.

LOS ANGELES CA 90023

Employer: American Tech

Employee SSN: 622-27-5585

**Check Type of Respirator(s) To Be Used** (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

**Special Work Conditions** (Check ✓ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

**Extent of Useage** (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

**Expected Physical Effort Required** (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

**Exposure to Hazardous Materials** (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

**PHYSICIAN WILL COMPLETE THE FOLLOWING**

report may contain confidential medical information and is intended for the designated employer contact only The Americans with Disabilities Act ) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities. All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

**Based upon my findings, I have determined that this individual** (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Occupational Med Centers-L prior to respirator approval and usage.
- ☒ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: Concentra Occupational Med C
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks

[1] Physician or other Licensed Healthcare Professional

[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Occupational Med Centers-L of his/her findings to

**(Check ✓ ALL that apply)**

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910 134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134
- ☐ The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

Physician's Signature: Jesse Zepeda PA

Physician's Name (Printed): Jesse Zepeda PA

Physician's License Number (Optional in Most States): PA 16637 CA

Date of Exam: 12/8/03

Expires On: 12/8/04



PACCAR 01707

# RESPIRATOR FIT TEST AND TRAINING ACKNOWLEDGEMENT

RE - FIT ✓ RE - HIRE _____ NEW HIRE _____

E PLOYEE NAME: Henry A. Martinez

D TE OF FIT TEST: 2-7-04

EXPIRATION DATE: 2-7-05

F SPIRATOR(S) TESTED

| 1.RACAL PAPR | 2. NORTH 7600 Full-Face | 3. NORTH 7700 1/2 Face | 4. Other |
|---|---|---|---|
| SIZE S M L | SIZE. S M L | SIZE S M L | SIZE· S M L |
| TYPE OF TEST | | | |
| QUANTITATIVE | QUANTITATIVE | QUANTITATIVE | QUANTITATIVE |
| QUALITATIVE X | QUALITATIVE X | QUALITATIVE X | QUALITATIVE |
| Isoamyl Acetate | Isoamyl Acetate | Isoamyl Acetate | Isoamyl Acetate |
| Irritant Smoke X | Irritant Smoke X | Irritant Smoke X | Irritant Smoke |
| ·._ST EXERCISES | | | |
| X Positive/Negative Pressure Test | X Positive/Negative Pressure Test | X Positive/Negative Pressure Test | Positive/Negative Pressure Test |
| X Normal Breathing | X Normal Breathing | X Normal Breathing | Normal Breathing |
| Deep Breathing | X Deep Breathing | X Deep Breathing | Deep Breathing |
| X Turn Head Side To Side | X Turn Head Side To Side | X Turn Head Side To Side | Turn Head Side To Side |
| X Nod Head Up & Down | X Nod Head Up & Down | X Nod Head Up & Down | Nod Head Up & Down |
| X Grimace | X Grimace | X Grimace | Grimace |
| X Bend Over & Touch Toes | X Bend Over & Touch Toes | X Bend Over & Touch Toes | Bend Over & Touch Toes |
| X Jogging In Place | X Jogging In Place | X Jogging In Place | Jogging In Place |
| X Breathe Normally | X Breathe Normally | X Breathe Normally | Breathe Normally |

AME OF CLINIC: Cocentra Medical Center

DATE OF PHYSICAL: _____

HIS CERTIFIES THAT THE ABOVED NAMED TEST SUBJECT HAS BEEN INFORMED OF THE HAZARDS INVOLVED IN WORKING WITH HAZARDOUS MATERIALS, AND HAS BEEN GIVEN INSTRUCTIONS IN THE USE AND CARE OF THE ESPIRATOR(S) SELECTED.

INSTRUCTOR SIGNATURE Mario Cuevas DATE 2-7-04

certify that I understand that exercises which have been shown to me today in properlyu fitting my respirator. I have been instructed about how to properly clean and maintain the respirator , and how to field test and inspect my respirator. An ·.dividual has been available to interpret this in the event that I do not speak English.

·· 'NDIVIDIO HA SIDO DISPONIBLE PARA INTERPRETAR ESTA INFORMACION EN EL EVENTO QUE NO HABLO INGLES.

EMPLOYEE SIGNATURE Henry A Martinez DATE 02-07-04 CURRENT PHONE # _____

jmr 2/5/2004

# *Certificate Of Completion*

## Henry Martinez

(Ending four digits) SS#: 5449

*Has attended and satisfactorily completed the contents of the course entitled:*

**NATEC**

***Asbestos Worker Refresher Course***

*Course Approval Number CA-0 15-1 2*

**INTERNATIONAL**

*Certificate Number*: **AAWR013004016N**
*Course Director*: **Alan D. Dages**
*Officer:* **Alan D. Dages President**
*Officer Signature:*

*Course Start Date*: **01/30/04**
*Course End Date:* **01/30/04**
*Expiration Date*: **01/29/05**
*Instructor:* **John Vreeland**

*This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California*

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

— Concentra Occupational Med Centers-LAX
2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1966

Service Date: 12/08/2003

## Medical Surveillance - Asbestos

| | | | |
|---|---|---|---|
| Patient: | Martinez, Henry A. | Job Title: | |
| SSN: | 609-17-5449 | Employer: | American Tech/Asbestos |
| DOB: | 01/06/1972 | Address: | 210 Baywood Ave |
| Gender: | M | | |
| Marital Status: | S | | ORANGE, CA 92865 |
| | | Job Contact: | Ruth |
| Address: | 4030 E. 6th | Role: | Primary Contact |
| | LOS ANGELES, CA 90023 | Phone: | (714) 283-9990 Ext.: |
| Home Phone: | (323) 376-4361 | Fax: | (714) 283-9995 |
| Work Phone: | Ext.: | Race: | ASIAN BLACK HISPANIC INDIAN WHITE OTHER |

The above individual was seen on 12/08/2003 in accordance with: ____29 CFR 1926.1101.
____40 CFR 763.121.

**The following was performed:**

- [x] Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101.
- [ ] Review of the employer's description of: this employee's duties as they relate to the employee's exposure, the employee's representative or anticipated exposure level, and personal protection equipment to be utilized by the employee.
- [ ] Review of information from previous medical examinations if available.
- [x] A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems.
- [x] A pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV 1) in accordance with NIOSH and ATS standards.
- [x] A chest roentgenogram, posterior-anterior, 14x17 inches (or current film on file) with interpretation in accordance with 29 CFR 1926.1101. (M)(2)(ii)(C).
- [x] NOTE: According to 29 CFR 1926.1101 (M)(2)(ii)(C), it is up to the discretion of the physician whether or not a chest X-ray is required.
- [x] The employee was informed by the physician of the results of the exam and of any medical conditions that may result from asbestos exposure including the increased risk of lung cancer attributable to the combined effect of smoking and asbestos exposure.

Unless otherwise noted below, this evaluation indicates that there are no detected medical conditions that would place the employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

Comments or limitations (if any): _____

Provider Signature

12/8/03
Date

# Concer. a Occupational Med Centers AX

2110 East Katella Ave Anaheim, CA 92806
Phone. (714) 937-1919 Fax (714) 937-1966

## EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

**EMPLOYER TO COMPLETE THE FOLLOWING :**

Employee Name: Martinez, Henry A.

Employer: American Tech

Address: 4030 E. 6th

LOS ANGELES CA 90023

Employee SSN: 609-17-5449

**Check Type of Respirator(s) To Be Used** (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

**Special Work Conditions** (Check ✓ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

**Extent of Useage** (Check ✓ALL that apply)

- ☐ On a daily basis ____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

**Expected Physical Effort Required** (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

**Exposure to Hazardous Materials** (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

## PLHCP [1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

**PHYSICIAN WILL COMPLETE THE FOLLOWING**

report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act .) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilities All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

Based upon my findings, I have determined that this individual (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Occupational Med Centers-L prior to respirator approval and usage.
- ☒ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at Concentra Occupational Med C
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks

[1] Physician or other Licensed Healthcare Professional

[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Occupational Med Centers-L of his/her findings to

(Check ✓ ALL that apply)

- ☒ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910 134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134
- ☐ The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134
- ☒ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

Physician's Signature: [signature] MD

Physician's Name (Printed): P. BANY MD

Physician's License Number (Optional in Most States): C45474 CA

Date of Exam: 12/8/03

Expires On: —



PACCAR 01711

# Concer. a Occupational Med Centers AX

2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1966

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

**Service Date:** 12/08/2003

**Employee Name:** artinez, Henry A.

**Employee SSN:** 609-17-5449

**Address:** 30 E. 6th

OS ANGELES CA 90023

**Employer:** American Tech

**You were evaluated in this office of your medical status related to your physical capability wear a respirator. (Check ✓ one that applies)**

- [X] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**ased upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- [X] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
- [ ] quire further testing by your private physician who must submit a written report of his/her findings to oncentra Occupational Med Centers-L so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

**(Check ✓ ALL that apply)**

- [X] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2. In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [X] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

Employee's Signature

CP Name (printed)

Expiration Date

[1]Physician or other Licensed Healthcare Professional

**To be maintained in the employee's file with a copy to the employee**

# RESPIRATOR FIT TEST AND TRAINING ACKNOWLEDGEMENT

RE - FIT ✓ RE - HIRE _____ NEW HIRE _____

EMPLOYEE NAME: Jose Barrera

DATE OF FIT TEST: 2-7-04

EXPIRATION DATE: 2-7-05

RESPIRATOR(S) TESTED

| | 1.RACAL PAPR | 2. NORTH 7600 Full-Face | 3. NORTH 7700 1/2 Face | 4. Other |
|---|---|---|---|---|
| SIZE | S / M / L | S / M / L | S / M / L | S / M / L |
| TYPE OF TEST | | | | |
| QUANTITATIVE | | | | |
| QUALITATIVE | X | X | X | |
| Isoamyl Acetate | | | | |
| Irritant Smoke | X | X | X | |
| TEST EXERCISES | | | | |
| Positive/Negative Pressure Test | X | X | X | |
| Normal Breathing | X | X | X | |
| Deep Breathing | X | X | X | |
| Turn Head Side To Side | X | X | X | |
| Nod Head Up & Down | X | X | X | |
| Grimace | X | X | X | |
| Bend Over & Touch Toes | X | X | X | |
| Jogging In Place | X | X | X | |
| Breathe Normally | X | X | X | |

NAME OF CLINIC: Cocentra Medical Center

DATE OF PHYSICAL: _____

THIS CERTIFIES THAT THE ABOVED NAMED TEST SUBJECT HAS BEEN INFORMED OF THE HAZARDS INVOLVED IN WORKING WITH HAZARDOUS MATERIALS, AND HAS BEEN GIVEN INSTRUCTIONS IN THE USE AND CARE OF THE RESPIRATOR(S) SELECTED.

INSTRUCTOR SIGNATURE Mario Cuevas DATE 2-7-04

I certify that I understand that exercises which have been shown to me today in properlyu fitting my respirator I have been instructed about how to properly clean and maintain the respirator , and how to field test and inspect my respirator. An individual has been available to interpret this in the event that I do not speak English.

I INDIVIDIO HA SIDO DISPONIBLE PARA INTERPRETAR ESTA INFORMACION EN EL EVENTO QUE NO HABLO INGLES.

EMPLOYEE SIGNATURE _____ DATE 2-7-04 CURRENT PHONE # _____

jmr 2/5/2004

# *Certificate Of Completion*

Jose Barrera

(Last Four Digits) SS#: 4275

*Has attended and satisfactorily completed the requirements for the course entitled:*

NATEC

***Asbestos Contractor/Supervisor Refresher Course***

*Course Approval Number CA-0 15-0 4*

**INTERNATIONAL**

*Certificate Number*: **AASR111403007N**
*Course Director*: **Alan D. Dages**
*Officer*: **Alan D. Dages President**
*Officer Signature:*

*Course Start Date*: **11/14/03**
*Course End Date:* **11/14/03**
*Expiration Date*: **11/13/04**
*Instructor:* **John Vreeland**

*This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California*

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

# *Certificate Of Completion*

## Jose Barrera

*Has attended and satisfactorily completed the contents of the course entitled:*

NATEC

***Mold Awareness Course***

INTERNATIONAL

*Certificate Number*: **MAC020704005N**
*Course Director*: **Alan D. Dages**
*Officer:* **Alan D. Dages President**
*Officer Signature*:

*Course Start Date*: **02/07/04**
*Course End (Exam) Date:* **02/07/04**
*Expiration Date*: **02/06/05**
*Instructor:* **Cesar Tenorio**

NATEC INTERNATIONAL, INC.
1100 Technology Circle Unit A, Anaheim, CA 92805
714/678-2750 800/969-3228

Concer a Occupational Med Center: AX
2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax: (714) 937-1966

# PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

ervice Date: 12/08/2003

Employee Name:
arrera, Jose F.

Employee SSN: 614-50-4273

Address:
4030 E. 6th St.

LOS ANGELES CA 90023

mployer: American Tech

**You were evaluated in this office of your medical status related to your physical capability o wear a respirator. (Check ✓ one that applies)**

- [x] There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- [ ] The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- [x] ARE qualified to wear a respirator.
- [ ] Have the following restrictions concerning respirator usage: _____
- [ ] ARE NOT qualified to wear a respirator.
  Require further testing by your private physician who must submit a written report of his/her findings to **Concentra Occupational Med Centers-L** so that a final decision on your ability to wear a respirator can be made.
- [ ] Must wear Special prescription eye-wear needed to accommodate respirator.
- [ ] Must use an Eye glass conversion kit.
- [ ] May need to shave Facial hair to assure tight seal on certain face masks.
- [ ] Need to stop smoking.

**(Check ✓ ALL that apply)**

- [x] The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134 This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910.134.
- [ ] The above individual HAS NOT been examined by me for respirator fitness The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- [x] In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator. Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

Jesse Zapeda PA-C
HCP Name (printed)

Employee's Signature

12/8/04
Expiration Date

[1]Physician or other Licensed Healthcare Professional

To be maintained in the employee's file with a copy to the employee

# Concer. a Occupational Med Center: AX

2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1966

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYEE)

Service Date: 12/08/2003

Employee Name: Barrera, Jose F.

Employee SSN: 614-50-4273

Address: 4030 E. 6th St.

LOS ANGELES CA 90023

Employer: American Tech

**You were evaluated in this office of your medical status related to your physical capability to wear a respirator. (Check ✓ one that applies)**

- ☑ There were no abnormal findings that would hamper your ability to perform your job duties while wearing a respirator.
- ☐ The abnormal findings listed below were not related to wearing a respirator but should be reported to your personal physician for further evaluation.

**Based upon the results of this evaluation it is my opinion that you: (Check ✓ ALL that apply)**

- ☑ ARE qualified to wear a respirator.
- ☐ Have the following restrictions concerning respirator usage: _____
- ☐ ARE NOT qualified to wear a respirator.
  Require further testing by your private physician who must submit a written report of his/her findings to Concentra Occupational Med Centers-L so that a final decision on your ability to wear a respirator can be made.
- ☐ Must wear Special prescription eye-wear needed to accommodate respirator.
- ☐ Must use an Eye glass conversion kit.
- ☐ May need to shave Facial hair to assure tight seal on certain face masks.
- ☐ Need to stop smoking.

**(Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134. This limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910.134, this limited evaluation is specific to respirator use only. Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- ☑ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s).

***Respirators must be properly selected based on the containment and concentration levels to which the worker will be exposed. Failure to follow the use and fitting instruction and warnings for proper use contained on the respirator packaging and/or failure to wear the respirator during all times of exposure can reduce the respirator's effectiveness and result in sickness or death. Wearer must be trained in the proper care of any respirator.Refer to product literature and packaging for specific information regarding fit, use and/or limitations.***

PLHCP Signature

Jesse Zepeda

HCP Name (printed)

Employee's Signature

12/8/04

Expiration Date

[1]Physician or other Licensed Healthcare Professional

**To be maintained in the employee's file with a copy to the employee**

# Concer a Occupational Med Center: .AX

2110 East Katella Ave Anaheim, CA 92806
Phone (714) 937-1919 Fax (714) 937-1966

## EMPLOYER AUTHORIZATION AND INFORMATION FOR RESPIRATORY EVALUATION

**MPLOYER TO COMPLETE THE FOLLOWING :**

Employee Name: Barrera, Jose F.

mployer: American Tech

Address: 4030 E. 6th St.

LOS ANGELES CA 90023

Employee SSN: 614-50-4273

**Check Type of Respirator(s) To Be Used** (Check ✓ALL that apply)

- ☐ Air-purifying (non-powered) ☐ Air-purifying (powered)
- ☐ Atmosphere supplying Respirator
- ☐ Combination air-line and SCBA
- ☐ Continous-Flow Respirator
- ☐ Supplied-Air Respirator
- ☐ Open Circuit SCBA ☐ Closed Circuit SCBA
- ☐ Dust Mask ☐ 1/2 Face with Canisters ☐ Full Face with Canisters

Make: _____ Model: _____ Cartridge: _____

**pecial Work Conditions** (Check ✓ALL That Apply When Wearing Respirator)

- ☐ High Places ☐ Enclosed Places ☐ Protective Clothing
- ☐ Temperature Extremes ☐ Mostly Cold ☐ Mostly Hot
- ☐ Other: _____

Questionare will be: ☐ HAND CARRIED ☐ MAILED ☐ OTHER

**Extent of Useage** (Check ✓ALL that apply)

- ☐ On a daily basis _____ Total Hours
- ☐ Occasionally - but not more than twice a week ____ Total Hours
- ☐ Rarely - or for Emergency situations only ____ Total Hours

**Expected Physical Effort Required** (Check ✓ALL that apply)

☐ Light ☐ Moderate ☐ Heavy

**Exposure to Hazardous Materials** (Check ✓ALL that apply)

- ☐ Arsenic ☐ Benzene
- ☐ Coke Oven ☐ Cotton Seed / Dust
- ☐ Cadmium ☐ Formaldehyde
- ☐ Methylene Chloride ☐ Lead
- ☐ Textiles ☐ Chromium

Other(s): _____

EVALUATION AUTHORIZATION BY: _____
Signature of Employer Representative

DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE DO NOT WRITE BELOW THIS LINE

## PLHCP[1] WRITTEN STATEMENT for RESPIRATORS (EMPLOYER)

**PHYSICIAN WILL COMPLETE THE FOLLOWING**

report may contain confidential medical information and is intended for the designated employer contact only. The Americans with Disabilities Act .A) imposes very strict limitations on the use of information obtained during physical examination of qualified individuals with disabilites All information must be collected and maintained on seperate forms, in seperate files, and must be treated as a confidential medical record, with the following exceptions:

- Supervisors and managers may be informed about necessary restrictions on the work or duties of an employee and necessary accommodations.
- First aid and safety personnel may be informed, when appropriate, if the disability might require emergency treatment.

**Based upon my findings, I have determined that this individual** (Check ✓ALL that apply)

- ☐ Employee must schedule a medical examination with Concentra Occupational Med Centers-L prior to respirator approval and usage
- ☑ Class I - No Restrictions on Respirator Use
- ☐ Class II - Some Specific Use Restrictions ☐ To be used for Emergency Response or Escape Only ☐ Other: _____
- ☐ Class III - Respirator Use is NOT PERMITTED
- ☐ Further Testing / Evaluation is Required [2]
- ☐ Fit Test Required ☐ Fit Test Performed Satisfactorily
- ☐ Fit Test Performed Unsatisfactorily ☐ Fit Test NOT Performed at: Concentra Occupational Med C
- ☐ Special prescription eyewear needed to accommodate respirator ☐ Special prescription eyewear needed to accommodate respirator
- ☐ Facial hair needs to be shaved to assure tight seal on certain face masks

[1] Physician or other Licensed Healthcare Professional
[2] Employee must seek further medical evaluation by a private physician who must submit a report to Concentra Occupational Med Centers-L of his/her findings to

**Check ✓ ALL that apply)**

- ☑ The above individual HAS been examined for respirator fitness in accordance with 29 CFR 1910.134 This limited evaluation is specific to respirator use only Employees should be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134.
- ☐ The above individual HAS NOT been examined by me for respirator fitness. The employee's medical evaluation consisted of a review of OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 In accordance with 29 CFR 1910 134, this limited evaluation is specific to respirator use only. Employees would be instructed to report any difficulties in using respirators or change of any physical status to their supervisor or physician. This evaluation included the Respiratory Questionnaire outlined in 29 CFR 1910 134
- ☐ In accordance with specific OSHA requirements, I have informed the above named individual of the results of this evaluation and of any medical conditions resulting from exposures that may require further explanation or treatment. Where applicable, the above named individual has been informed of the increased risk of lung cancer attributable to the combined effect of smoking and asbestos, lead and/or other chemical exposure(s)

Physician's Signature: [signature]

Physician's Name (Printed): Jesse Zapedulk

Physician's License Number (Optional in Most States): VPA 11631 CA

Date of Exam: 12/8/03

Expires On: 12/8/04

# APPENDIX F
# CERTIFICATIONS

State of California
Division of Occupational Safety and Health

**Certified Asbestos Consultant**

**Kevin A. Roberts**
Name

Certification No **94-1524**

Expires on **11/9/2004**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq of the Business and Professions Code

State of California

Department of Industrial Relations

DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

# *Certificate of Registration for Asbestos-related Work*

Certificate No. 213 Expiration Date 05-Jul-04

**AMERICAN TECHNOLOGIES, INC.**
(Name of Employer)

is duly registered by the Division of Occupational Safety and Health in accordance with the California Administrative Code, Title 8, Article 2.5 for asbestos-related work

30-Jun-03
Date Of Issuance

Division of Occupational Safety and Health

Effective Date 06-Jul-03 Contractor's License No. 571784

This registration is valid only when the following requirements and conditions are met:

1. The registered employer shall safely perform asbestos-related work in compliance with relevant occupational safety and health regulations.
2. The registered employer shall notify the Division of changes in work locations or conditions as specified by Section 341.9 of Title 8 of the California Administrative Code.
3. The registered employer shall post a sign readable at 20 feet at the location of any asbestos-related work stating:

   Danger-Asbestos
   Cancer and Lung Hazard
   Authorized Personnel Only

4. A copy of the registration shall be posted at the jobsite beside the Cal-OSHA poster.
5. The registered employer shall provide a copy of this registration certificate to the prime contractor and any other employers at the site before the commencement of any asbestos-related work.
6. The registered employer shall conduct a safety conference prior to the commencement of any asbestos-related work as specified by Section 341.11 of Title 8 of the California Adminstrative Code.
7. The registered employer acknowledges the Division's right to revoke or suspend this registration as provided by Section 341.14 of title 8 of the California Administrative Code.

# State of California

# Contractors State License Board

Pursuant to Chapter 9 of Division 3 of the Business and Professions Code
and the Rules and Regulations of the Contractors State License Board,
the Registrar of Contractors does hereby issue this license to:

AMERICAN TECHNOLOGIES INC

to engage in the business or act in the capacity of a contractor
in the following classification(s):

B - General Building Contractor
ASB - Asbestos Certified

DEPARTMENT OF Consumer Affairs

Witness my hand and seal this day,
July 6, 1989

Issued June 27, 1989
CERTIFIED COPY

Signature of Licensee

Registrar of Contractors

Signature of License Qualifier

This license is the property of the Registrar of Contractors, is not transferrable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

571784
License Number

13L-24 (REV. 1-89)

№ 225818

PACCAR 01722

S'ate Of California

CONTRACTORS STATE LICENSE BOARD

ACTIVE LICENSE

Consumer Affairs

License Number 571784 Entity CORP

Business Name AMERICAN TECHNOLOGIES INC

Classification(s) ASB B HAZ HIC

Expiration Date 06/30/2005

CSLB

PACCAR 01723

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF
Consumer Affairs

CONTRACTORS STATE LICENSE BOARD

*Building Quality*

# ASBESTOS CERTIFICATION

Pursuant to the provisions of Section 7058.5 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the asbestos certification examination:

DEPARTMENT OF CONSUMER AFFAIRS
REGISTRAR OF CONTRACTORS
STATE OF CALIFORNIA

Qualifier: GARY PIERSON MOORE

License No.: 571784

Namestyle: AMERICAN TECHNOLOGIES, INC.

*WITNESS my hand and official seal this* 27th *day of* JUNE, 1989

David R Phillips

*Registrar of Contractors*

13L-35 (7/88)

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason

A5180

PACCAR 01724

www.hartcrowser.com

Anchorage
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 206.328.9581
Tel 206.324.9530

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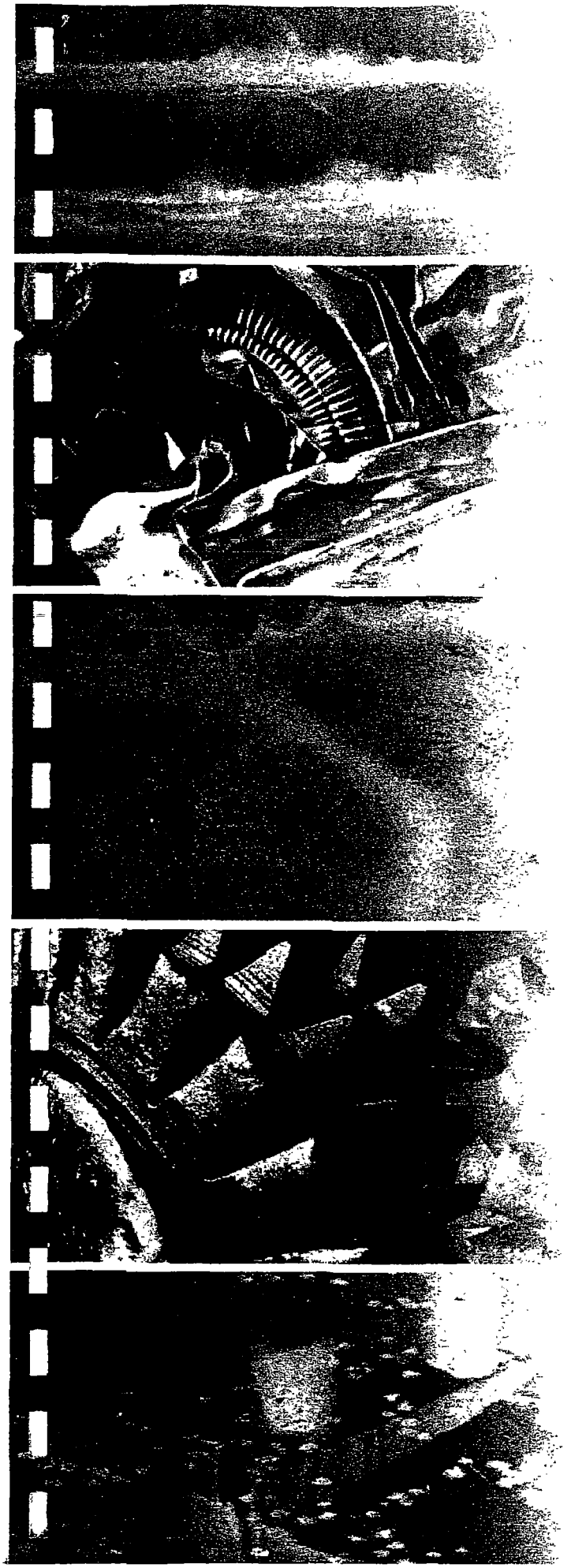

# *ASBESTOS OPERATIONS AND MAINTENANCE PROGRAM*

## *PACCAR INC PROPERTY*
## *1206 WEST 196TH STREET*
## *TORRANCE, CALIFORNIA*

Prepared for:

***PACCAR Inc***
***777 106th Avenue NE***
***Bellevue, WA 98004***

***JUNE 2004***

***Project No. 16135***

Prepared by:


***Hart Crowser, Inc.***
***301 East Ocean Boulevard, Suite 1950***
***Long Beach, California 90802***

Kevin Roberts
California-certified Asbestos Consultant
#94-1524


HARTCROWSER
Delivering smarter solutions

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PACCAR 01728

## FIGURES

FIGURE 1 - SITE VICINITY MAP
FIGURE 2 - ACM LOCATIONS

## APPENDICES

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| Form OM-10 | Asbestos Operations and Maintenance Program Designation of Controlled Areas and Materials |
| Form OM-20 | Building Employee Notification of Controlled Areas |
| Form OM-30 | Building Tenant/Occupant Notification of Controlled Areas Location of Asbestos-Containing Material |
| Form OM-40 | Tenant Service Request Work Order |
| Form OM-50 | Maintenance Contractor Notification of Controlled Areas |
| Form OM-60 | Tenant/Employee Notification of a Large-Scale Abatement Project |
| Form OM-70 | Asbestos Operations and Maintenance Project |
| Form OM-80 | Fiber Release Episode Report |
| Form OM-90 | Asbestos Waste Disposal Log |
| Form OM-100 | Periodic Surveillance Log |
| Form OM-110 | Asbestos-Containing Material Inventory |
| Form OM-120 | Verification of No Visual Contamination Following Completion of an Operations and Maintenance Project |
| Form OM-130 | Notification of Ongoing Operations and Maintenance Activities |



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ABBREVIATIONS

| | |
|---|---|
| ACM | Asbestos-Containing Materials |
| APC | Asbestos Program Coordinator |
| AMC | Asbestos Management Consultant |
| AHERA | Asbestos Hazard Emergency Response Act |
| CCR | California Code of Regulations |
| CFR | - Code of Federal Regulations |
| HEPA | -High Efficiency Particulate Air |
| NESHAP | -National Emission Standard for Hazardous Air Pollutants |
| NIOSH | -National Institute for Occupational Safety and Health |
| OSHA | -Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| TEM | - Transmission Electron Microscopy |
| USDOL | - United Sates Department of Labor |
| USDOT | - United Sates Department of Transportation |
| USEPA | -United States Environmental Protection Agency |



PACCAR 01730

## 1.0 INTRODUCTION

Hart Crowser performed an asbestos survey at the PACCAR Inc facility located at 1206 West 196th Street, in Torrance, California, to identify potential asbestos-containing materials (ACMs). Survey findings identified ACMs at the facility. Although the damaged materials were repaired or removed by an asbestos abatement contractor, small quantities of ACM are present at the facility. The remaining materials must be properly managed in order to minimize or prevent potential health hazards. This Operations and Maintenance Program (O&M Program) was established to manage the ACMs in-place. The presence of ACMs does not constitute an exposure risk to facility occupants, employees, or workers unless the materials are disturbed and become airborne.

This program includes specific practices and procedures as they apply to cleaning, maintenance, renovation, and general repair operations. The O&M Program should remain in effect until all ACMs have been removed from the facility and are properly documented as such by an accredited third party. This manual describes administrative requirements of the O&M Program and establishes safe work practice guidelines and procedures which reduce the potential for release of asbestos fibers during the course of routine maintenance operations and emergencies involving ACMs.

This manual provides a general understanding of asbestos, its uses and potential health hazards, and provides a format for organizing and implementing the O&M Program. PACCAR, Inc. (PACCAR) is the owner of the facility. Mighty USA, Inc. (Mighty) is the current tenant at the facility. Mighty, or one of its personnel, will be the designated Asbestos Program Coordinator (APC). The APC should have working knowledge of this manual and the inventory of known ACMs onsite. A thorough understanding of the information presented in this manual and completion of training as described in the appropriate sections is recommended for effective use and implementation of this program.

## 2.0 ASBESTOS HEALTH EFFECTS

Asbestos has been used in building applications since the beginning of the 1800s. It was an important mineral in that it was readily available, fire resistant, and resists chemical breakdown. Until the mid-1970s it was widely used in construction throughout the country in more than an estimated 770,000 buildings.



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The primary health effects due to asbestos exposure affect the lungs. Asbestos fibers accumulate in the lungs. As exposure increases, the risk of disease likewise increases. Measures to minimize exposure, and consequently minimize the accumulation of fibers, reduces the risk of adverse health effects. Asbestos-related diseases typically have an extended latency period (a lag time between initial exposure and the occurrence of the disease) of 10-40 years. A synergistic relationship also exists between asbestos and tobacco use. A cigarette smoker who is also exposed to asbestos is 50 times more likely to contract lung cancer than the normal non-smoking population.

Consequently, it is important for employees and tenants of the buildings to follow proper work practices to minimize the potential for disturbing ACM.

## 3.0 PREVIOUS ASBESTOS SURVEY AND ABATEMENT

### *3.1 Previous Asbestos Survey*

Hart Crowser Inc. (Hart Crowser) was retained by PACCAR to conduct an asbestos survey for the PACCAR facility located at 1206 West 196th Street, Torrance, California (Figure 1 - "the Site"). The purpose of the survey was to identify accessible suspect ACMs in buildings A, B, and C at the Site. Hart Crowser personnel performed the asbestos survey on May 7 and 8, 2003.

The survey was performed by conducting a space-by-space inventory of the buildings for suspect materials. Bulk samples were collected from representative areas in the various office spaces, common areas, and warehouse areas. Bulk sampling was conducted in accordance with procedures outlined in the Asbestos Hazard Emergency Response Act (40 CFR 763.86, Sampling) The procedure requires the inspector to select random sampling locations from homogeneous materials suspected to contain asbestos. A homogeneous material is defined as an area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color, texture and appears to be identical in all aspects.

The homogeneous materials that were sampled in this survey included various resilient flooring, roofing components, drywall/tape/compound, plaster, window putty, basecove, spline (glued in) ceiling tiles, and exterior stucco.

Hart Crowser collected a total of sixty samples of suspect ACMs from the Site. In addition to the sampled materials, two metal-clad fire doors were observed in Building A (see Figure 2). At PACCAR's request, these fire doors were not



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sampled and are presumed asbestos-containing materials (PACM). A roof penetration that appeared to be a transite flue was observed on the northeast corner of Building B. This area was not accessible for closer observation but should also be considered PACM until the asbestos content can be determined.

Generally the observed ACMs were in good condition. They included roof mastic, floor tile/mastic, basecove mastic, drywall, stucco, window putty, and fire doors. Activities that could disturb ACM will be regulated by establishing the following as controlled areas and materials, with access restricted to those who have proper protective equipment and training: The controlled areas and materials are listed in Section 5.1. This O&M Program will remain in force as long as any ACM remains in the buildings.

### *3.2 Previous Asbestos Abatement*

PACCAR selected American Technologies, Inc. (ATI), a California-certified asbestos abatement contractor, to provide limited abatement of the damaged ACM in buildings A, B, and C. The sampling results from the survey were used by ATI to perform the abatement. Hart Crowser personnel provided abatement oversight on February 11-17, 2004.

Limited asbestos abatement was performed on the damaged ACMs in buildings A and B. Small areas of vinyl floor tile, drywall, basecove, skim coat, and stucco were repaired or removed from the shipping office of Building B. Window putty in buildings A and B was encapsulated with a latex-type material. The waste materials were transported by ATI to Azusa Landfill. The remaining materials and their locations are listed in Section 5.1.

## 4.0 OPERATION AND MAINTENANCE PROGRAM - PERSONNEL

### *4.1 Property Owner*

The Property Owner is responsible for the identification of ACM, notification of building personnel of the presence and location of ACM, training maintenance and custodial personnel, employee protection, special work practices, implementing emergency response procedures, disposing of ACM waste, record keeping, and periodic surveillance of ACM.



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The Property Owner is:

PACCAR Inc
777 106th Avenue, NE
Bellevue, Washington 98004
Attention: Mr. Fred Benz
(425) 468-7901

PACCAR is committed to providing a safe and healthful environment for all personnel, residents, and contractors who currently work at or may otherwise enter the PACCAR facility. The objective of this O&M Program for the PACCAR facility is to minimize the potential hazard posed by the ACM through a set of specific procedures and practices to maintain the buildings as free of asbestos contamination as possible.

### *4.2 Asbestos Program Coordinator*

The Asbestos Program Coordinator (APC) is responsible for the implementation of this Program. The APC has responsibility for the day-to-day coordination and oversight of asbestos-related activities, including operations and maintenance (O&M) procedures and asbestos abatement. The APC is:

Mighty USA, Inc.
1206 W. 196th Street
Torrance, California
Attention: To Be Announced
(310) 516-7478

The APC serves as the primary contact with the Property Owner, Asbestos Management Consultant, potential contractor(s) and, with the assistance of the Asbestos Management Consultant, ensures that O&M activities are carried out in accordance with the requirements of this O&M Program.

Other key duties of the Property Owner include responding to O&M emergencies should they arise; reviewing work orders to ensure that in-house staff and outside contractors do not inadvertently disturb ACM, inspecting the asbestos material on a 6-month periodic schedule to monitor condition, and ensuring that O&M activities are documented in the recordkeeping system

Any action likely to disturb ACM must be approved by the Property Owner. Any damage to the identified ACMs should be reported to the Property Owner. The Property Owner may delegate responsibility for day-to-day coordination of



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asbestos-related activities to the APC. It is the responsibility of the Property Owner to conduct the following activities:

- Ensure that work conducted in controlled areas is consistent with the O&M Program by checking the Tenant Service Request Work Order, Form OM-40, Appendix A, to determine if service requires entry into controlled areas or disturbance of controlled materials.
- Regular communications with the building tenants on a routine basis (once per year) regarding the O&M Program through tenant meetings or letters.
- Use forms and procedures provided to document activities of the O&M Program.
- Should an asbestos-related emergency or public relations emergency occur, immediately contact the APC and Asbestos Management Consultant.
- Ensure that work is conducted in accordance with the asbestos abatement contract, and that all work in controlled areas is performed by an approved asbestos abatement contractor.

### *4.3 Asbestos Management Consultant*

The Asbestos Management Consultant is an individual Asbestos Consultant, licensed by the State of California, who is knowledgeable and experienced in the field of asbestos hazard evaluation and control. The Asbestos Management Consultant advises building management on the procedures for implementing this Program and serves as the liaison between the building management and independent contractors. The current Asbestos Management Consultant is:

Hart Crowser Inc.
301 East Ocean Boulevard, Suite 1950
Long Beach, California 90802
Attention: Mr. Kevin Roberts
(562) 733-1740

Hart Crowser Inc.
1910 Fairview Ave. East
Seattle, WA 98102-3699
Attn: Mr. Barry Kellems
(206)324-9530

Hart Crowser was responsible for the design of the O&M Program.

### *4.4 Building Tenants*

Mighty (the APC) as the tenant, leases the buildings from the Property Owner, PACCAR. The APC should be notified of any disturbance or damage to ACM or suspect ACM by the tenants activities. The APC should be notified of any



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planned renovation activities to discuss the scope of the renovation with the Property Owner to determine the potential impact to asbestos.

### *4.5 Contractors*

This group includes various types of independent trade or service contractors that are retained by the APC, by tenants or by another contractor to conduct non-asbestos-related work at the PACCAR facility.. Contractors shall perform work only after the APC or the Asbestos Management Consultant has determined that the work will not disturb known ACM and have obtained written authorization to proceed from the Property Owner. Contractors must avoid disturbance of any known ACM and immediately report any observed damage of ACM or suspect ACM to the APC.

### *4.6 Asbestos Abatement Contractor*

The Asbestos Abatement Contractor shall be licensed to perform large-scale asbestos removal. A Competent Person (as defined in the OSHA Asbestos Construction Standard under 29 CFR 1926.1101 and licensed in the State of California) coordinates and supervises all O&M activities within the PACCAR facility. The Asbestos Abatement Contractor would be contracted with to conduct routine and planned cleaning, maintenance, and mechanical work that would require disturbance of ACM and to respond to O&M emergencies should they occur. The Asbestos Abatement Contractor reports to the Property Owner but shall coordinate with the Asbestos Management Consultant and the APC to conduct work in accordance with the procedures in the Program and all local, state, and Federal regulations.

## 5.0 O&M PROGRAM DESCRIPTION

This O&M Program is a set of procedures designed to minimize asbestos exposure to building occupants. There are three primary objectives of the O&M Program: 1) clean up existing contamination, 2) minimize future fiber release by controlling access to ACM, and 3) maintain ACM until it is eventually removed. A discussion of the procedures and the associated regulatory reference necessary to attain these objectives follows:

- Designate controlled areas and materials which require the use of specialized work practices conducted by trained and protected personnel (CCR, Title 8; Section 1529);



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- Notify tenants and maintenance personnel of the locations of asbestos-containing material (ACM) (CCR, Title 8; Section 1529);
- Train building occupants and maintenance personnel who are expected to perform cleaning procedures in areas where ACM is located (CFR AHERA, Title 40, Part 763.92);
- Inform outside contractors about the practices and procedures to be used in the facility when ACMs will be impacted (CCR, Title 8; Section 1529);
- Enforce proper worker protection standards when ACM will be disturbed due to repair and/or renovation activities (29 CFR 1910.1001, 29 CFR 1926.1101, 29 CFR 1910.134);
- Immediately respond to any emergency that involves ACM to prevent building contamination (CCR Title 8, Section 5208).

## *5.1 Controlled Areas and Materials*

Those areas which are known to have ACM are designated as "controlled" areas. The degree of restricted access to these areas is based on location, use, and condition of the ACMs. Materials that are to be disturbed only by an approved asbestos abatement contractor at the PACCAR facility include:

Building A
- Silver roof mastic;
- Black roof mastic;
- Gray roof mastic;
- Fire doors;
- White mastic - exterior wood cabinet; and
- Window putty.

Building B

*Shipping Office*
- Tan 12" Vinyl Floor Tile (VFT);
- Brown 12" VFT;
- Brown basecove mastic;
- Skim coat in shipping office;
- Drywall/tape/joint compound in shipping office; and
- Tan stucco in shipping office.

*Warehouse*
- White window putty;
- Transite flue;
- Gray roof mastic.

Building C
- Gray roof mastic.



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## 5.2 *Notification*

The Property Owner must inform those who may come into contact with ACM about its location in order to prevent inadvertent disturbance. These include building management employees, building tenants, and maintenance contractors, as well as the asbestos abatement contractor.

At the commencement of the program, Mighty's employees shall be given Form OM-10, which explains the locations of ACMs, instructs them to avoid these materials, and to report to the APC if damaged materials or debris are observed. Mighty's employees are prohibited from conducting activities which would disturb ACMs. This notification should be provided in conjunction with the awareness training session that all building management employees are required to attend.

All new employees and all employees shall be informed on an annual basis about the location of ACM, instructed to avoid disturbing this material, and the procedure to report damaged or suspect debris. A brief summary of the Program will be provided for the tenants, as well as information on where they can access the Program for review or copying during business hours. Form OM-30, Appendix A, may be used for this notification.

Maintenance contractors must be notified, using Form OM-10 or equivalent, of where asbestos is located in the facility, that these materials must not be disturbed by any of their employees, and that trained personnel and/or an asbestos abatement contractor is available if a task requires disturbance of ACM. The content and frequency of this notification may be changed to correspond with proposed OSHA and Health & Safety Code requirements.

The asbestos abatement contractor retained to perform O&M activities will be notified in the contract document or separate letter about the location and content of ACM. The content and frequency of this notification may be changed to correspond with proposed OSHA and Health & Safety Code requirements.

The EPA NESHAP, which is administered by South Coast Air Management District, requires that notification be made if unscheduled renovation operations will involve the disturbance or removal of more than 160 square feet or 260 linear feet of ACM. This notification should be made by Certified Mail with return receipt request prior to each O&M activity that requires disturbance of ACM. Notification is also required 10 working days prior to the start of a major abatement project. A yearly notification can be made for a series of small, separate asbestos O&M or abatement operations.



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Property Owner will notify Mighty and the APC about all asbestos abatement projects to be conducted at the PACCAR facility. Form OM-60, Appendix A, can be used for this purpose.

Once each year, Mighty employees should be reminded in writing about asbestos-related activities including periodic surveillance activities, abatement projects, and O&M procedures. The written notification may be augmented with an Awareness Training Session if the APC determines it is necessary.

## *5.3 Training*

**Building Occupants**

All occupants of the building who normally have no reason to encounter ACM shall be offered information through annual notifications. The notifications will provide a generalized understanding of the locations of ACMs, how to avoid contact with ACM, the O&M Program, and where to get additional information. The goal of the notification will be to promote an atmosphere of open communication regarding the nature of the asbestos program policies and any possible impact it will have on the tenants' workplace, work duties, and safety and health.

The notification will, at a minimum, cover the following topics:

- Information regarding asbestos and its various uses and forms;
- Information on the health effects associated with asbestos exposure;
- Locations of ACM identified throughout the PACCAR facility;
- How to recognize damage, deterioration, and delamination of ACM;
- Name and telephone of the APC and the availability and location of reports and the Program document, and
- How to respond to an O&M emergency.

**Building Maintenance Personnel**

*Awareness Training*

All members of the building maintenance and custodial staff who may work in the portions of the office building containing ACM should receive awareness training of at least two hours whether or not they are required to work with ACM. The training should include but not be limited to the following:



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- Information regarding asbestos and its various uses and forms.
- Information on the health effects associated with asbestos exposure.
- Locations of ACM identified in the building.
- Recognition of damage, deterioration, and delamination of ACM.
- Name and telephone number of the person designated to carry out general responsibilities.

*O&M Training*

Any members of the maintenance and custodial staff who periodically conduct any activities that will result in the disturbance of ACM should receive the aforementioned training, 14 hours of additional EPA-approved asbestos training for O&M and periodic surveillance activities. If it is determined that members of the maintenance and custodial staff could disturb ACM during the normal course of their daily work, Mighty and Property Owner will develop a procedure for the identified activity.

## *5.4 Worker Protection*

The Occupational Safety and Health Administration (OSHA) has set standards governing worker protection. These standards are triggered by the exposure of employees to asbestos fibers as measured in fibers per cubic centimeter (f/cc) of air. The Permissible Exposure Level (PEL) for airborne asbestos fibers is 0.1 fibers per cubic centimeter of air based on an 8-hour time-weighted average (TWA) sampling period. This is the maximum level of airborne asbestos that an employee can be exposed to over an 8-hour period

OSHA regulations require a respiratory protection program, medical surveillance program, employee training program, daily personal air sampling, protective clothing, and the establishment of regulated areas when workers are exposed above the PEL.

Asbestos work activities is categorized into four classes. The first two classes refer to asbestos removal. This type of work is called Class I and II asbestos work. Class I asbestos work includes the removal of thermal system insulation and surfacing ACM and PACM. Class II asbestos work includes the removal of ACM, which is not thermal system insulation or surfacing material. This includes the removal of floor tile, roofing products, construction mastics, etc. The removal of Class I and II ACM requires licensed asbestos abatement contractors.



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Class III work means repair and maintenance operations where ACM is likely to be disturbed. Class IV asbestos work includes maintenance and custodial work during which employees contact but do not disturb ACM, and activities to clean up waste and debris generated by Class I, II, and III activities.

As discussed in the previous section, Class III work requires a 16-hour training class. Respirators are also required for Class III work if there is not adequate data to show that the potential exposure would be below the PEL (negative initial exposure assessment). Class IV work requires a 2-hour training class, and the use of wet methods and HEPA vacuums to clean up asbestos debris.

## *5.5 Specialized Cleaning Procedures*

Cleaning up existing asbestos contamination within a facility is one of the primary objectives of the O&M Program. Dry brooms, mops, and standard vacuum cleaners simply re-suspend asbestos fibers into the air. Therefore, it is essential that specialized cleaning procedures be implemented.

The following procedures will be implemented by the Asbestos Abatement Contractor for abatement, or O&M cleaning ;

1. Unauthorized and unprotected personnel will be prevented from entering the areas being cleaned by the posting of OSHA warning signs and the assignment of security personnel.

2. At a minimum, anyone who enters the cleaning area must wear a disposable suit with booties and hood (over street clothes), gloves, and half-mask air purifying respirators.

3. Any loose debris will be placed in 6-mil plastic, labeled disposal bags. The areas shall be cleaned using High Efficiency Particulate Air (HEPA)-filtered vacuums and wet wiping materials.

4. Personnel must HEPA vacuum their outer clothing before exiting the cleaning area.

5. After exiting the area, personnel shall remove the outer layer of disposable clothing and dispose of it as asbestos-containing waste material. The outside of the respirator will be thoroughly wet wiped, then removed from the face. Respirator filter cartridges will be disposed of as asbestos-containing waste material.

6. Every scheduled operation and maintenance activity will be monitored by Asbestos Management Consultant. Personal air samples will be collected by the AMC in accordance with the OSHA Asbestos Standard (29 CFR 1926.1101). The AMC will be responsible for a visual inspection of the area



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after the cleaning activity is completed. The Asbestos Abatement Contractor and AMC will provide written verification that the area is visually clean to the APC. An example of the written notice is included as Form OM-120, Appendix A.

### *5.6 Emergency Response Procedures*

As long as ACM remains in the building, a fiber release episode could occur. Custodial and maintenance workers should report to the APC the presence of debris on the floor, water, or physical damage to the ACM or any other evidence of possible fiber release. Fiber release episodes can also occur during maintenance or renovation projects. The APC should immediately contact Property Owner who will then call an abatement contractor to clean up debris and make repairs as soon as possible.

Minor episodes (the falling or dislodging of less than 3 linear or square feet of friable (able to be crushed or pulverized by hand pressure when dry) ACM), such as a small section of insulation falling from a pipe, can be treated with standard wet cleaning and HEPA-vacuum techniques:

- Workers should wear air-purifying respirators with HEPA filters;
- Workers should thoroughly saturate the debris with amended water using a mister with a very fine spray. The debris should then be placed in a labeled, 6-mil plastic bag for disposal, and the floor should be cleaned with damp cloths or a mop;
- All debris and materials used in the cleanup should be discarded as asbestos waste;
- The damaged ACM should be repaired with asbestos-free spackling, plaster, cement or insulation or sealed with latex paint or an encapsulant.

Major fiber release episodes (the falling or dislodging of more than 3 linear or square feet of friable ACM) can be very serious events that could potentially contaminate an entire building. All the procedures recommended by EPA and required by OSHA for large-scale removal of ACM should then be used including isolating the area, and shutting off the air-handling system. An asbestos abatement contractor would be called immediately by Property Owner.

## 6.0 O&M PROGRAM INITIATION

This O&M Program must be available in the APC's office for inspection, review and photocopying by all tenants and occupants of the PACCAR facility during



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normal working hours, including lunch and break periods. It may be revised or amended periodically by the AMC. Comments about the Program and its provisions are encouraged and welcomed at any time.

The O&M Program should be initiated by the AMC utilizing the following procedures:

- Formally designate controlled areas and materials by completing Form OM-10 in Appendix A. This form is complete and incorporated into this document.
- Issue a notification to building management employees delineating areas which are restricted to access and prohibiting disturbance of ACMs. Form OM-10 in Appendix A may be used for this notification in combination with Form OM-20, Appendix A.
- Issue a notification to all tenants and employees describing controlled areas and materials, and the O&M Program, and annually thereafter. Additionally, all new employees must receive the notification. A sample tenant notification is provided in Form OM-30, Appendix A.
- Notify maintenance contractors who routinely service the building of controlled areas and materials. Form OM-50, Appendix A, can be used to notify outside vendors.
- Select and retain, under contract with unit pricing, an asbestos abatement contractor for operation and maintenance activities of a routine and emergency nature.
- Establish a record keeping system for asbestos documentation.

## 7.0 RECORD KEEPING

### *7.1 General Forms*

**Designation of Controlled Areas**

No tenant or occupant in the PACCAR facility should engage in any activity that will disturb ACM within the buildings. Any planned activity that could disturb ACM, such as moving, drilling, and/or boring, must be conducted by an asbestos abatement contractor who is under contract with the Property Owner. Any maintenance contractor who might disturb ACM must also have specialized training and be approved by the Property Owner. Form OM-10 identifies the areas that cannot be entered and the materials that cannot be disturbed except by an authorized abatement contractor under a work order/permit system.



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## Notifications

1. Building Employee Notification - Form OM-20 documents that building management employees have been notified of the locations of ACM, where access to areas and materials is restricted, and the procedures to follow in case ACM is inadvertently disturbed.

2. Tenants/Building Occupants Notification - Form OM-30 is an example of the notification to building occupants of the location of ACMs, where access to areas and materials is restricted, what to do in case of an emergency fiber release, and where the O&M Program document can be reviewed.

3. Maintenance Contractor Notification - Form OM-50 documents that the Maintenance Contractor has been informed of the locations of ACM, areas where access is controlled, the use of a work order/permit system, and what to do if ACM is inadvertently disturbed.

4. Tenants/Employee Notification of an Asbestos Abatement Project Form OM-60 notifies tenants and other building occupants of where asbestos abatement is being conducted and what control measures are being used.

## Tenant Service Request Form

The Property Owner checks the proposed work activity listed on the Tenant Service Request Work Order Form OM-40 to determine if ACMs and/or a controlled area is involved. The APC records on the Tenant Service Request Work Order form whether the activity involves a controlled area. If it does, appropriate procedures will be used to conduct the maintenance activity and a copy of the form is attached to Form OM-70 and filed in the records.

## Maintenance/Renovation

Form OM-70 documents the date and location of the work, the type and amount of ACM involved, work procedures, worker protection, who performed the work, and who monitored the work.

## O&M Emergencies

Form OM-80 documents the date and location of the O&M emergency, the type and amount of ACM involved, procedures for cleanup, who performed the work, and who determined the area could be reoccupied.



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**Waste Disposal Records**

Form OM-90 documents the date and location of the work; the number of bags of asbestos-containing waste generated; the waste hauler, owner or operator of landfill receiving asbestos waste; and the date of disposal. Any additional documentation, such as a waste manifest, should also be retained in the files.

**Periodic Surveillance**

Periodic review of the O&M Program is essential to ensure that the program objectives are being met. A key feature of the review is the reinspection of all ACM in the buildings. Form OM-100 documents the six-month periodic inspection of ACM to monitor its condition and to make any necessary repairs.

## *7.2 Regulatory Compliance*

The Property Owner must demonstrate compliance with OSHA and EPA NESHAPS, which is regulated by CAL/OSHA and the South Coast Air Quality Management District. The following documentation must be maintained for O&M activities.

**Asbestos Abatement Contractor Pre-Work Submittals**

The approved asbestos abatement contractor selected to perform O&M activities must submit work plans, respiratory protection program, medical surveillance program, and training documentation to demonstrate compliance with OSHA regulations.

**Notification of Ongoing O&M Activities**

Form OM-130 refers to an annual notification made to CAL/OSHA to cover O&M work performed by the approved asbestos abatement contractor. Larger projects will have individual notifications as part of the project.

## *7.3 Material Inventory*

The Property Owner will maintain a record of all ACMs that are removed as part of O&M activities and large abatement activities. Form OM-110 records information on the amount of material removed and its locations.

## 8.0 DISPOSAL OF ASBESTOS-CONTAINING WASTE

All containerized ACMs shall be logged in at the short-term storage area on the Asbestos Waste Disposal Log sheet (see Form OM-90, Appendix A). The following information will be recorded by Consultant and provided to the the Property Owner:

- Date and time;
- Location of material collected;
- Name of contractor performing activity; and
- Number of bags of asbestos-containing waste collected.

All asbestos waste disposal procedures shall be in accordance with current state and federal regulations.

### *8.1 Short-Term Storage*

Immediately after the O&M ACM clean-up procedures have been completed, asbestos-contaminated waste shall be placed in a secured, locked area, for future transportation to an EPA-approved landfill as soon as feasible.

### *8.2 Containerize Asbestos-Containing Material*

**Friable Asbestos-Containing Material**

All friable ACM (able to be crushed or pulverized by hand pressure when dry) not containing sharp objects such as wire, shall be placed in pre-labeled 6-millimeter polyethylene bags. All friable ACM must be kept wet until the bag is sealed. When full, the bag should be twisted, goosenecked, and sealed with duct tape. The bag will then be placed in another 6-millimeter polyethylene bag and sealed for disposal.

**Nonfriable Asbestos-Containing Material**

All nonfriable ACM not specified above shall be placed in pre-labeled polyethylene-lined fiber drums. The poly-liners should be sealed and the drum lid affixed prior to transport. Asbestos-containing waste material must be kept wet.



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## 8.3 *Labeling*

All bags and drums must be labeled as asbestos-containing waste and properly manifested in accordance with OSHA and USDOT regulations. PACCAR, or a designated representative, will sign the waste manifest.

The label on the bags and/or drums should read:

DANGER

CONTAINS ASBESTOS FIBERS

AVOID CREATING DUST

CANCER AND LUNG DISEASE HAZARD

In addition to the OSHA labeling requirement, the Department of Transportation (DOT) requires additional labeling on any bag or container with more than one pound of asbestos waste. Proper DOT wording follows:

RQ HAZARDOUS

SUBSTANCE

SOLID, NOS,

ORM-E, NA9188

(ASBESTOS)

The key to the symbols follows:

RQ - reportable quantity, (i.e., more than one pound).

NOS - "not otherwise specified" refers to the classification on DOT's hazardous materials table.

ORM-E - designation for the hazard class for asbestos.

NA9188 - identification code of the United Nations marking system for hazardous materials.

To avoid confusion as to whether the amount of waste in any one bag meets or exceeds the DOT reportable quantity, the OSHA and DOT markings will appear on all 6-millimeter polyethylene disposal bags.

## 8.4 *Transportation of Asbestos-Containing Material to Landfill*

The containerized asbestos-containing wastes shall be transported to an EPA-approved/PACCAR-approved landfill by a certified waste transporter as soon as feasible. All containerized waste shall be transported in a covered vehicle to prevent damage to containers and to prevent fiber release. Vehicles that use

compactors to haul waste shall not be used because they could cause the containers to rupture.

### *8.5 Disposal of Asbestos-Containing Material at Landfill*

An EPA-approved/PACCAR-approved disposal facility shall be used. There should be no visible emission to the air during disposal or minimizing of emissions by covering the waste within 24 hours. The minimum required cover is six inches of non-asbestos material (soil or dust-suppressing chemical). All disposal procedures shall be in accordance with EPA National Emission Standards for Hazardous air pollutants (Asbestos Regulations 40 CFR 61, Subpart M).

## 9.0 LIMITATIONS

Conditions described in this report are as found at the time of investigation, unless otherwise stated. Hart Crowser sampled only the substances, conditions, and locations described in this report at the time indicated. No inferences regarding other substances, conditions, location or time can be made unless specifically stated in this report.

The conclusions and recommendations presented are based on the agreed upon scope of work outlined in this report.

## 10.0 REFERENCES

The following regulations, standards, guidelines, and publications were relied upon in the preparation of this O&M Program for asbestos:

California Labor Code, Division 5 - Safety in Employment, Part 1 - Occupational Safety and Health, Chapter 6 - Permit Requirements, Section 6501.5.

California Proposition 65 Safe Drinking Water and Toxic Enforcement Act of 1986. Section 25915 Notification. Section 25915.1 Management Plans.

Cal/OSHA, California Code of Regulations, Title 8, Section 1529. Asbestos.

Cal/OSHA, California Code of Regulations, Title 8, Section 5208. Health & Safety.

Cal/OSHA, California Code of Regulations, Title 8, Section 341.15. Certification of Asbestos Consultants and Site Surveillance Technicians.

California Health and Safety Code. Chapter 10.4, Section 25915-25919.7 - Asbestos Notification.

South Coast Air Quality Management District, Rule 1403. Asbestos Emissions From Demolition/Renovation Activities.

The Environmental Institute, Asbestos in Building: Designing and Implementing and O&M Program, Marietta, Georgia, 1989.

U.S Environmental Protection Agency, Guidance for Controlling Asbestos-containing Material in Buildings (1985 Edition), USEPA Publication.

USDOL/OSHA General Industry Asbestos Standard, Code of Federal Regulations, Title 29, Section 1910.1001.

USDOL/OSHA General Construction Industry Asbestos Standard, Code of Federal Regulations, Title 29, Section 1926.1101.

USDOL/OSHA. Respiratory Protection Standard, Code of Federal Regulations, Title 29, Section 1910.134.

USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) - Asbestos, Code of Federal Regulations, Title 40, Part 61, Subpart M.

USEPA, Asbestos Hazard Emergency Response Act Regulations (AHERA), Code of Federal Regulations, Title 40, Part 763, Subpart E.

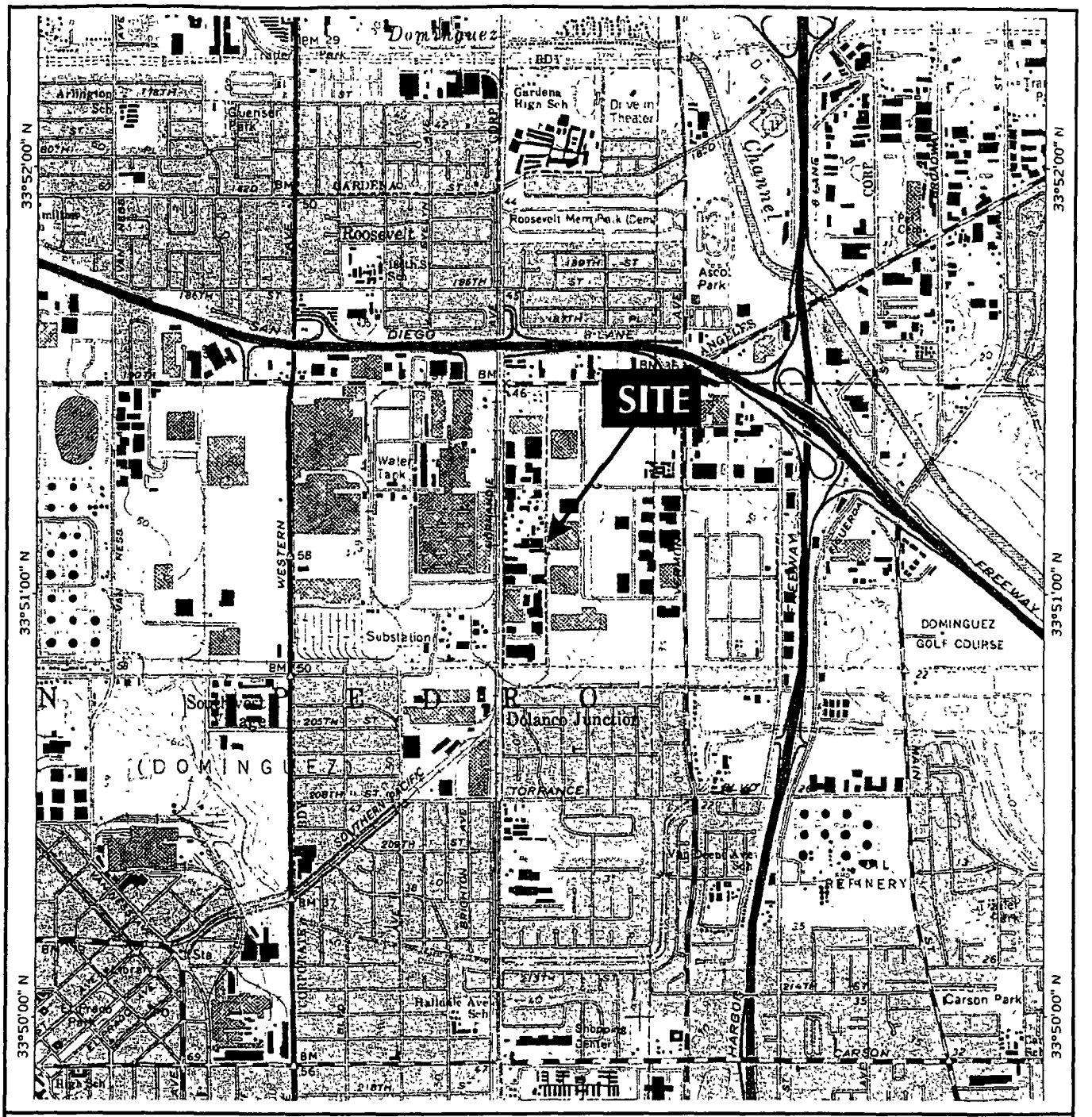
U.S. General Services Administration, Safety and Environmental Management Program, PBS P 5900.2C, Washington, DC, August 2.1988.



PACCAR 01749

Figures

# FIGURES




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

N

HARTCROWSER

HC PROJECT NO.: 16135

DATE: MARCH 30, 2004

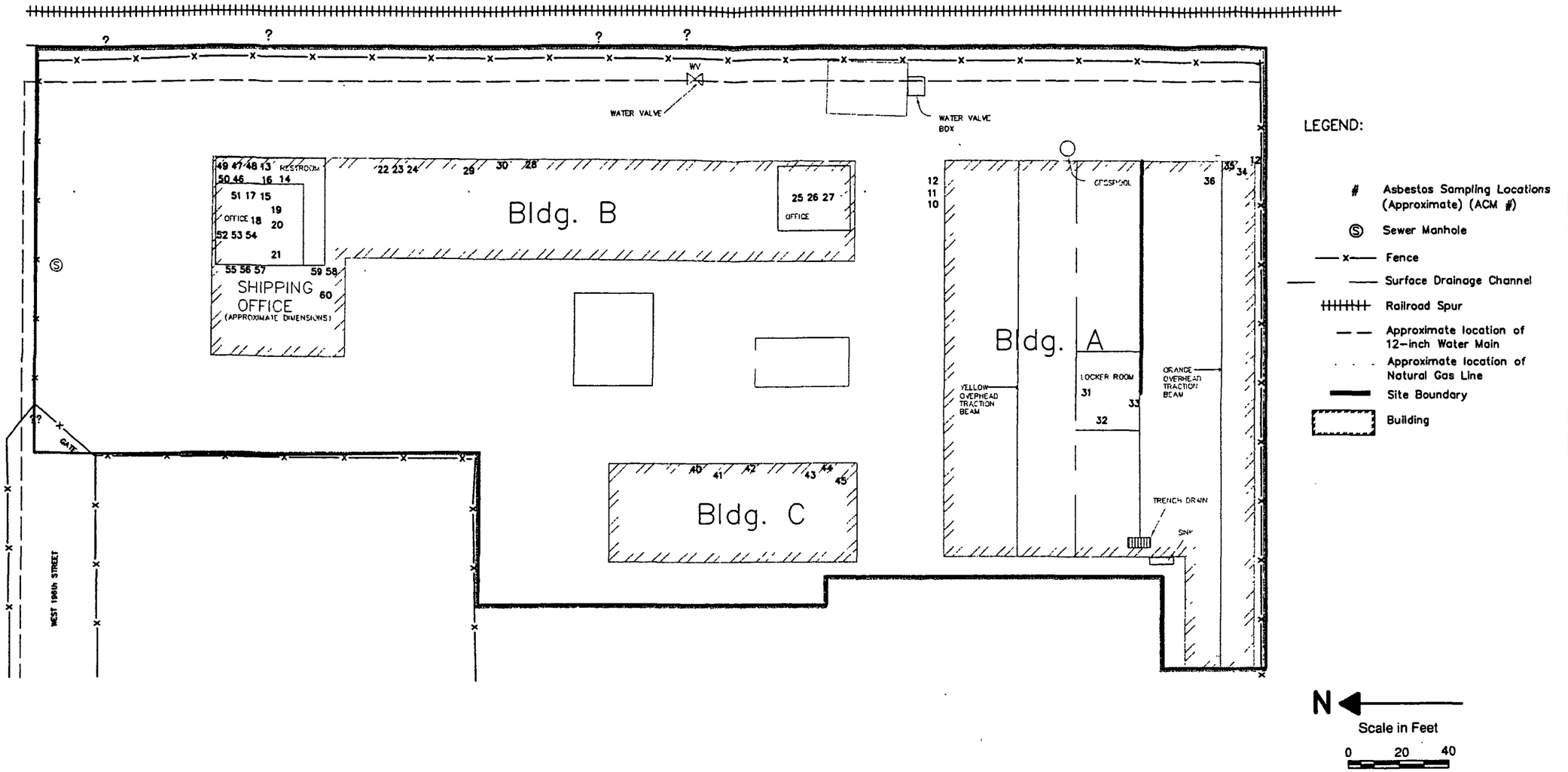
PROJECT NAME: FORMER TRICO FACILITY

SITE LOCATION MAP
1206 W. 196th STREET
TORRANCE, CALIFORNIA

FIGURE 1

PACCAR 01752

R R Donelly & Sons Co.



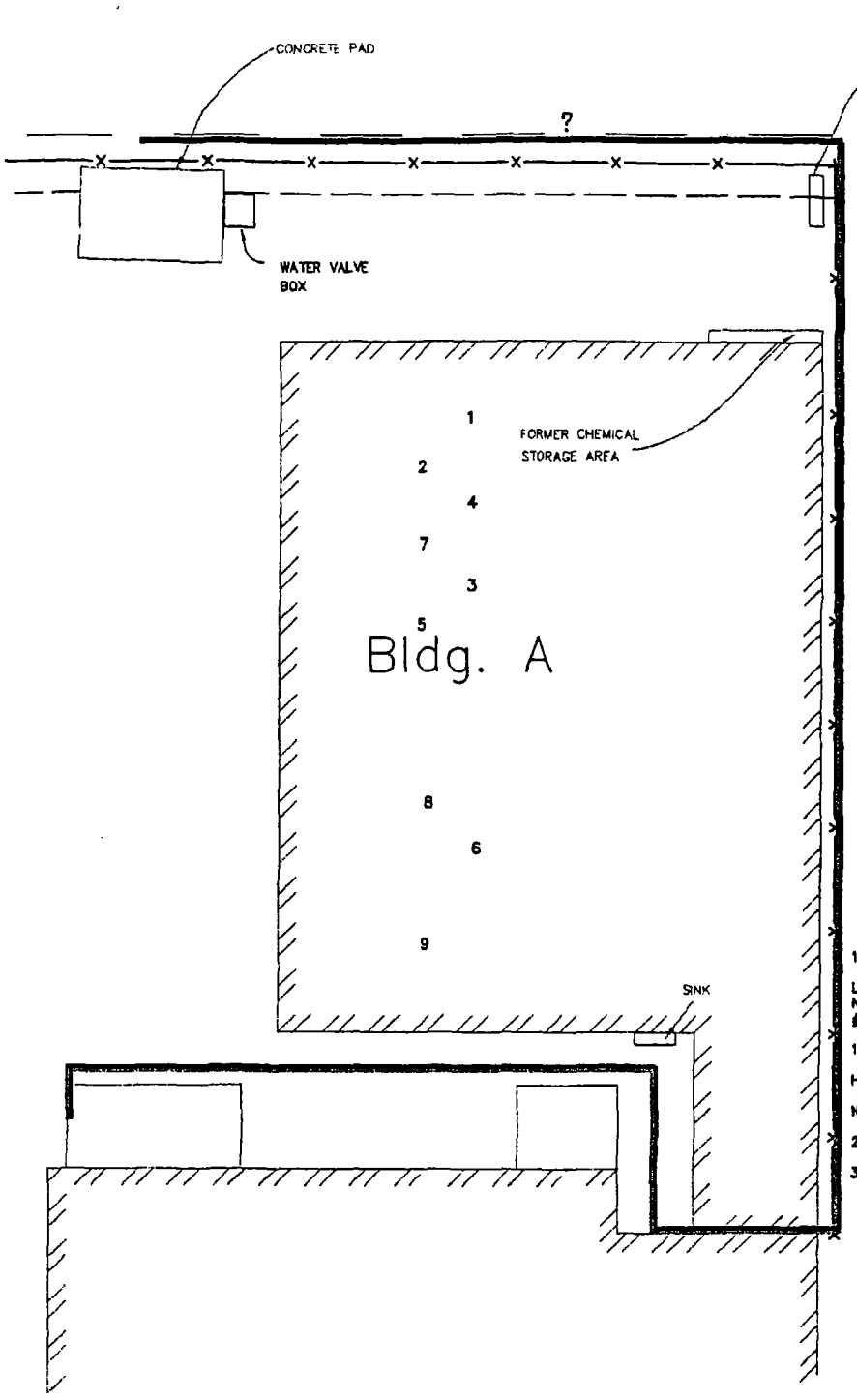

HARTCROWSER

ASBESTOS SAMPLING LOCATIONS

Project Number: 16135
Date: May 19, 2003
Revised: March 30, 2004

Prepared by: _____
Checked by: _____
File F:Data/Jobs/16000s/16135/Figures/AutoCAD/Lead Based Paint Sampling Locations revised 3-30-04.dwg

FIGURE 2A




LEGEND:

# Asbestos Sampling Locations (Approximate) (ACM #)

Site Boundary

Building

NOTES:

1: BENCHMARK: VERTICAL DATUM NGVD29

LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #57584OH, 0.05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

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

N

Scale in Feet

0 20 40

HARTCROWSER

**ASBESTOS SAMPLING LOCATIONS**

**BUILDING A - ROOF**

Project Number: 6999.06
Date: May 19, 2003

File F Data/Jobs/6900s/6999 06/Figures/Asbestos and Lead Sampling Locations/Asbestos Sampling Locations.dwg

**FIGURE 2B**

Appendix A

# APPENDIX A

# FORMS

## LIST OF FORMS

Form OM-10 Asbestos O&M Program Designation of Controlled Areas and Materials

Form OM-20 Building Employee Notification of Controlled Areas

Form OM-30 Building Tenant/Occupant Notification of Controlled Areas Location of Asbestos-Containing Material

Form OM-40 Tenant Service Request Work Order

Form OM-50 Maintenance Contractor Notification of Controlled Areas

Form OM-60 Tenant/Employee Notification of a Large-Scale Abatement Project

Form OM-70 Asbestos O&M Project

Form OM-80 Fiber Release Episode Report

Form OM-90 Asbestos Waste Disposal Log

Form OM-100 Periodic Surveillance Log

Form OM-110 Asbestos-Containing Material Inventory

Form OM-120 Verification of No Visual Contamination Following Completion of an O&M Project

Form OM-130 Notification of Ongoing O&M Activities



PACCAR 01757

## DESIGNATION OF CONTROLLED AREAS AND MATERIALS

Disturbance of asbestos-containing materials (ACM) in the PACCAR facility can be prevented by controlling activities that could disturb the ACM.

### Controlled Areas and Materials

The following areas and materials in the PACCAR facility can only be disturbed by an asbestos abatement contractor approved by the Property Owner:

Building A

- Silver roof mastic;
- Black roof mastic;
- Gray roof mastic;
- Fire doors;
- White mastic - exterior wood cabinet; and
- Window putty.

Building B

*Shipping Office*

- Tan 12" Vinyl Floor Tile (VFT);
- Brown 12" VFT;
- Brown basecove mastic;
- Skim coat in shipping office;
- Drywall/tape/joint compound in shipping office; and
- Tan stucco in shipping office.

*Warehouse*

- White window putty;
- Transite flue;
- Gray roof mastic.

Building C

- Gray roof mastic.

## BUILDING EMPLOYEE NOTIFICATION

I have been informed of the locations of ACMs at the PACCAR facility and have received instruction on the Asbestos Operations and Maintenance Program. I have reviewed and understand that I am prohibited from disturbing the asbestos containing material.

I further understand that there may be some ACM in the building that has not been identified, especially if it is located within or behind existing structures. I agree that before work is started, I must complete a Work Order (Form OM-40). If an accidental disturbance of ACM occurs or I observe a fiber release of suspect material; I acknowledge that I must stop work and immediately notify Mighty, who will then immediately notify the APC and the Property Owner.

_____

Employee Signature Date

_____

Employee Printed Name

_____

(Witness)

_____

Employer Department

_____

Mighty USA, Inc. Date

_____

Authorized By:

PACCAR Inc _____ Date: _____

**TO: TENANTS/BUILDING OCCUPANTS**
**FROM: ASBESTOS PROGRAM COORDINATOR,**
**PACCAR Inc FACILITY**

ASBESTOS AWARENESS NOTIFICATION

The State of California requires annual notification concerning ACMs in buildings. Accordingly, the PACCAR management is providing this notification regarding ACMs which are present in some building materials.

Asbestos has been used in building applications since the beginning of the 1800s. It was an important mineral in that it was readily available, fire resistant, and resists chemical breakdown. Until the mid-1970s it was readily used in construction throughout the country in more than an estimated 770,000 buildings. Airborne asbestos levels in buildings are much lower than those in industrial workplaces where serious health effects such as lung cancer and asbestosis have been observed. However, it is important for employees and tenants of the building to follow proper work practices to minimize the potential for disturbing ACM. Only persons authorized and properly trained should perform any work which may disturb asbestos materials.

Asbestos-containing materials pose no threat to your health unless asbestos fibers become airborne due to material aging, deterioration, or as the result of being disturbed. A physical assessment of the ACM material within the PACCAR facility has been conducted. The material was found to be in good condition. Additionally, PACCAR has instituted an Asbestos Operations and Maintenance Program (O&M Program) to ensure that the asbestos material remains in good condition. When renovation or maintenance tasks impact asbestos, special engineering controls will be utilized to prevent asbestos fibers from becoming airborne. The objective of the Program is to maintain the asbestos in a safe condition.

Asbestos-containing materials within the PACCAR facility can be found in the following areas:

Building A

- Silver roof mastic;
- Black roof mastic;
- Gray roof mastic;
- Fire doors; .
- White mastic - exterior wood cabinet; and
- Window putty.

Building B

*Shipping Office*

- Tan 12" Vinyl Floor Tile (VFT);
- Brown 12" VFT;
- Brown basecove mastic;
- Skim coat in shipping office;
- Drywall/tape/joint compound in shipping office; and
- Tan stucco in shipping office.

*Warehouse*

- White window putty;
- Transite flue;
- Gray roof mastic.

Building C

- Gray roof mastic.

Tenants and occupants should avoid disturbing this material. If access to mechanical spaces or the areas above ceilings becomes necessary, do not enter these areas without the assistance of building management. If any disturbance of an ACM is suspected, immediately contact APC and Property Owner.

PACCAR Inc Facility
1206 West 196th Street
Torrance, California

Tenant Service Request Notification

Dear Tenant:

PACCAR has adopted an O&M Program to comply with Federal and state regulations. PACCAR has decided to engage [Consultant - TBA] to fully evaluate the nature and extent of the situation, and to outline a long-term plan of action. In the interim, the building will initiate special operational and maintenance procedures and we ask for your cooperation in this effort. The presence of ACMs at the PACCAR facility dictates that certain precautions be taken whenever renovation, maintenance, or construction work is performed in the building.

Prior to beginning any such work, you **must** notify PACCAR of your plans. We will review your plans and let you know of any special procedures that need to be followed in order to reduce or prevent the possibility of disturbing ACMs.

Sincerely,

Mighty USA, Inc.

Date_____

## TENANT SERVICE REQUEST

Tenant:_____ Suite #:_____

Date:_____ Date of Renovation:_____

Person Completing Form:_____

Print Name

Describe The Nature of Your Renovation Plan:

_____
_____
_____
_____
_____
_____
_____

Are Drawings or Work Schedule Attached? (Y/N):_____

Name of Contractor(s) Doing Work:

_____
_____
_____

## MAINTENANCE CONTRACTOR NOTIFICATION

I have been informed of the locations of ACMs in the PACCAR facility and have received instructions on the O&M Program. I have reviewed the Controlled Areas and Materials Designation Form (OM-10) and understand that I am prohibited from disturbing asbestos materials.

I further understand that there may be some ACM in the building that has not been identified, especially if it is located within or behind existing structure. I agree that before work is started, I must complete a Work Order (Form OM-40). If an accidental disturbance of ACM occurs, or if I observe a fiber release of suspected material, I acknowledge that I must stop work and immediately notify the Asbestos Program Coordinator.

_____

Employee Signature Date

_____

Employee Printed Name

_____

(Witness)

_____

Employer Department

_____

Mighty USA, Inc. Date

_____

Authorized By:

PACCAR Inc _____ Date: _____

**TENANT/EMPLOYEE**
**LARGE-SCALE ASBESTOS ABATEMENT PROJECT**
**NOTIFICATION FORM**

Date:

Dear Tenant:

We have instituted an Asbestos Operations & Maintenance program to maintain and monitor the asbestos-containing materials (ACM) in the PACCAR facility. Periodically, renovation activities require the disturbance of these materials, and as part of our O&M Program we are notifying you of the upcoming project.

FILL IN THE INFORMATION REQUESTED BELOW:

Location of asbestos abatement project:_____

Size of project: _____

Start date of project: _____

Projected completion date: _____

Name of Asbestos Abatement Contractor:_____

Name of Asbestos Management Consultant:___Hart Crowser, Inc._____

(Letter to tenant rep, mailings, posted notices, etc.)

Mighty USA, Inc. (APC)_____Date: _____

AUTHORIZED BY

PACCAR Inc: _____ Date: _____

## ASBESTOS OPERATIONS AND MAINTENANCE PROJECT

Description of Activity:

_____

_____

Location of Activity:

_____

_____

Type of Asbestos-Containing Material:

_____

**Control Measures**

____HVAC Shutdown

____Signs Posted

____Restricted Entry

____HEPA Vacuum of Surfaces

____In Immediate Area

____Poly on Floor

____Other_____

**Worker Protection**

____ Respirator Type

____ Full Body Suit

____Other_____

Start Date of Work _____

Completion Date of Work

_____

Name of Approved Asbestos Abatement Contractor

_____

Name of On-Site Asbestos Management Consultant (TBA)

_____

Mighty USA, Inc. (APC)_____ Date _____

AUTHORIZED BY

PACCAR Inc: _____ Date: _____

(Attach Verification of Visual Clearance, OM-120 and Waste Disposal Log, OM-90)

## FIBER RELEASE EPISODE REPORT

_____

Date and Time Release Reported

_____

Location of Fiber Release

_____

Amount of Material Released

_____

Type of Material

| **Small Scale*** | **Large Scale**** |
|---|---|
| _____Area Isolated | _____Area Isolated |
| _____HVAC Shut Down | _____HVAC Shut Down |
| _____ACM Wetted Down | _____Full-Scale Asbestos |

**Abatement Work Procedures**

_____ACM Properly Bagged

_____Wet Mop/Damp Rag

_____HEPA Vacuum

_____Respirator Type

_____Full body Suits

* Less than 3 square or 3 linear feet.

**More than 3 square or 3 linear feet.

_____Other _____

_____

Clearance Method

_____

Date(s) and Time of Cleanup

_____

Approved Asbestos Abatement Contractor

_____

Asbestos Management Consultant (TBA)

_____

Mighty USA, Inc APC _____ Date_____

REVIEWED BY

PACCAR Inc: _____ Date: _____

ACTION REQUIRED:_____

(Attach Verification of Visual Clearance, OM-120; and Waste Disposal Log, OM-90)

## ASBESTOS WASTE DISPOSAL LOG SHEET

| ASBESTOS WASTE DISPOSAL LOG SHEET | | | |
|---|---|---|---|
| Date & Time | Location of ACM Collected | Name of Contractor Performing Activity | Number of bags Containerized |
| | | | |
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**PERIODIC SURVEILLANCE LOG**
PACCAR Inc Facility

| Change ACM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Description | Amount | Caused By* | | | | | | Recommended Response |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | |
| | | | | | | | | | |
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*Column Key

1 - Abrasion 2 - Water 3 - Deterioration
4 - Vibration 5 - ACM 6 - Disturbance

## ASBESTOS-CONTAINING MATERIAL INVENTORY

| Date | Location of ACM Removed | Type of ACM Removed | Amount of ACM Removed | Name of Contractor |
|---|---|---|---|---|
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# VERIFICATION OF NO VISUAL CONTAMINATION FOLLOWING COMPLETION OF AN ASBESTOS OPERATIONS AND MAINTENANCE PROJECT

Project Title

_____

Location of Project

_____

_____

_____

_____

Description of Work

_____

_____

_____

_____

_____

Upon completion of the O&M work in this location, the regulated area was thoroughly inspected for evidence of any visible suspect contamination. This serves to verify that the area was free of any visible suspect ACM before the work crew completed the activity and left the project site.

## NESHAP NOTIFICATION OF ONGOING OPERATIONS AND MAINTENANCE PROJECTS

During each year that small-scale, short-duration asbestos projects will be conducted, the following information must be forwarded to the South Coast Air Quality Management District. Notice should be given at least 10 days prior to beginning any work on ACM. The notification should include:

Name and address of owner.

Description of the facility being demolished or renovated, including the size, age, and prior use of the facility.

Estimate of the approximate amount of friable asbestos material present on the facility in terms of linear feet of pipe, and surface area on other facility components. For facilities in which the amount of friable asbestos materials is less than 260 linear feet on pipes and less than 160 square feet on other facility components, explain the techniques of estimation.

Location of the facility being demolished or renovated.

Scheduled start and completion dates of the demolition or renovation.

Nature of planned demolition or renovation and method(s) to be used.

Procedures to be used to comply with the requirements of US EPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Asbestos Regulations (40 CFR 61 Subpart M).

Name and location of the waste disposal site where the friable asbestos waste material will be deposited.

For facilities being demolished under an order of a state or local government agency, issued because the facility is structurally unsound and in danger of imminent collapse, give the name, title, and authority of the state or local government representative who has ordered the demolition.

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 425.775.4682

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 201.985.8100

Long Beach
301 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 503.620.7284

Seattle
1910 Fairview Avenue East
Seattle, Washington 98102-3699
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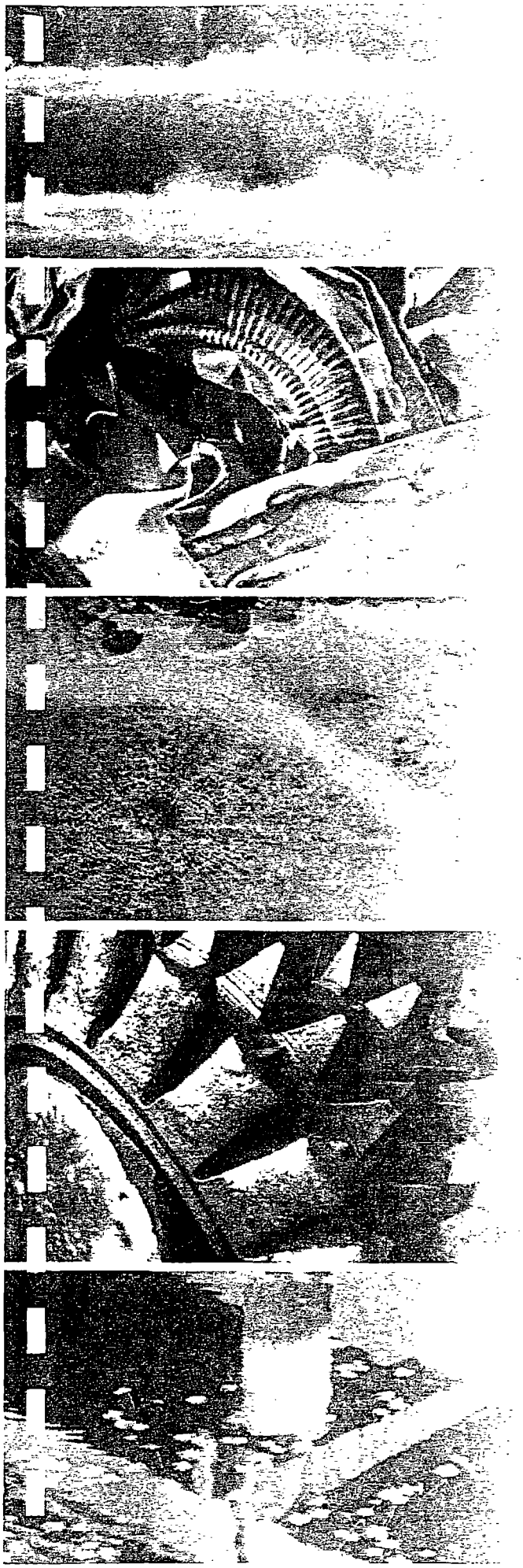

# *LEAD-BASED PAINT OPERATIONS & MAINTENANCE PROGRAM*

## *PACCAR INC. PROPERTY*
***1206 WEST 196TH STREET***
***TORRANCE, CALIFORNIA***

*Prepared For:*
***PACCAR Inc.***
***777 106th Avenue NE***
***Bellevue, WA 98004***

***July 2004***
***16135-00***

*Prepared By:*
***Hart Crowser, Inc.***
***301 East Ocean Boulevard, Suite 1950***
***Long Beach, California 90802***

***Kevin A. Roberts***
***California Lead Inspector/Assessor***
***Certification #3530***

HARTCROWSER

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PACCAR 01778

# 1.0 INTRODUCTION

## *1.1 Purpose*

Hart Crowser performed a lead-based paint (LBP) survey for Buildings A, B, and C, at the PACCAR Inc. facility located at 1206 West 196th Street, in Torrance, California, to identify potential lead-containing materials (LCMs). Survey findings identified LCMs at the facility. Although the damaged materials were repaired or removed by a lead abatement contractor, some LCMs are still present at the facility. The remaining materials must be properly managed to minimize or prevent potential health hazards. This Operations and Maintenance Program (O&M Program) was established to manage the lead-based paint materials (LBPMs) in-place. The presence of LBPMs does not constitute an exposure risk to facility occupants, employees, or workers unless the materials are disturbed and become airborne or available for accidental ingestion.

This program includes specific practices and procedures as they apply to cleaning, maintenance, renovation, and general repair operations. The O&M Program should remain in effect until all LBPMs have been removed from the facility and is properly documented as such by an accredited third party. This manual describes administrative requirements of the O&M Program and establishes safe work practice guidelines and procedures which reduce the potential for disturbance of lead during the course of routine maintenance operations and emergencies involving LBPMs.

This manual provides a general understanding of lead, its uses and potential health hazards, and provides a format for organizing and implementing the O&M Program. PACCAR Inc. is the Property Owner. Mighty USA, Inc. (Mighty) is the current tenant at the facility. Mighty, or one of its personnel, will be the designated Lead Program Coordinator (LPC). The LPC should have working knowledge of this manual and the inventory of known LBPMs on the site. A thorough understanding of the information presented in this manual and completion of training as described in the appropriate sections are recommended for effective use and implementation of this program.

## *1.2 Site Description*

The PACCAR Inc. (former TRICO) property was originally developed in the 1940s with later additions and renovations occurring in the 1950s and 1960s. The Site is improved with three corrugated metal industrial buildings (A, B, and

C) on concrete slab and occupies approximately 100,000 square feet. The property is owned by PACCAR and is currently leased to Mighty, which uses it for the assembly of patio umbrellas for wholesale distribution. In addition, the facility is used to store finished products, imported equipment/supplies, and for administrative purposes.

Building A occupies approximately 19,200 square feet. It contains a warehouse divided into two separate work areas, and a locker room. It is accessed by warehouse doors on three sides. It has a flat roof that connects to a pitched corrugated metal roof with metal truss. The building is constructed with corrugated metal and concrete block on slab. A portion of the building has concrete walls. An interior metal frame provides for hoist and crane support for moving heavy equipment. The building also contains louvered windows on the north and south sides.

Building B occupies approximately 12,400 square feet. It contains a warehouse and a shipping office. The building is constructed with corrugated metal on a raised concrete foundation. The pitched corrugated metal roof has metal trusses. The building has louvered windows. The building is accessed by doors, a loading ramp, and a rear (east) stairway.

Building C occupies approximately 4,000 square feet. It is constructed with concrete block and corrugated metal on a concrete slab. It has a pitched corrugated metal roof and louvered windows.

Walls and partitions in the buildings on the Site were constructed of drywall, concrete, wood, and metal. Paint finishes on the exteriors of the buildings consisted of tan-painted metal and concrete. Paint finishes on the interiors of the buildings consisted of a variety of paints applied to the walls, bollards, offices, door frames, doors, and interior components (cabinets, signs, doors, window systems, etc.).

## 2.0 HEALTH EFFECTS OF LEAD

According to California/Occupational Safety and Health Administration (Title 8 California Code of Regulations, Section 1532.1), when absorbed into your body in certain doses, lead is a toxic substance. Lead can be absorbed by inhalation (breathing) and ingestion (eating). Lead (except for certain organic lead compounds not covered by the O&M Program) is not absorbed through the skin. The object of the O&M Program is to prevent absorption of harmful



PACCAR 01780

quantities of lead, and to inform workers of the short-term and long-term effects of lead exposure.

Inorganic lead exposure can occur via inhalation of dusts or metal fumes, ingestion of dusts, and skin and eye contact. Where lead is scattered in the air as a dust or fumes, it can be drawn into the respiratory tract. Inhalation of airborne lead is generally the most important source of occupational lead absorption. You can also absorb lead through your digestive system if lead gets into your mouth and is swallowed. If you handle food, cigarettes, chewing tobacco, or make-up that have lead on them or handle them with hands contaminated with lead, this will contribute to lead ingestion.

A significant portion of the lead that you inhale or ingest gets into your blood stream. Once in your blood stream, lead is circulated throughout your body and stored in various organs, bone, and body tissues. Some of this lead is quickly filtered out of your body and excreted, but some remains in the blood, bones, and other tissues. As exposure to lead continues, the amount stored in your body will increase if you are absorbing more lead than your body is excreting. Even though you may not be aware of any immediate symptoms of disease, this lead stored in your tissues can be slowly causing irreversible damage, first to individual cells, then to your organs and whole body systems.

The principal target organs of lead toxicity include the nervous system, kidneys, blood, gastrointestinal, and reproductive systems. Generalized symptoms of lead exposure include decreased physical fitness, fatigue, sleep disturbances, headaches, bone and muscle pain, constipation, abdominal pain, and decreased appetite. More severe exposure can result in anemia, severe gastrointestinal disturbance, a "lead-line" on the gums, neurological symptoms, convulsions, and death.

Neurological effects are among the most severe of inorganic lead's toxic effects and vary depending on the age of individual exposed. Effects observed in adults occur primarily in the peripheral nervous system, resulting in nerve destruction and degeneration. Wrist-drop and foot-drop are two characteristic manifestations of this toxicity.

The EPA also currently lists inorganic lead as a Group B2 probable human carcinogen via the oral route. This conclusion is based on feeding studies conducted in laboratory animals. The current PEL-TWA for inorganic lead is 0.05 $mg/m^3$.

# 3.0 PREVIOUS LEAD-BASED PAINT SURVEY/ABATEMENT

## *3.1 Lead-Based Paint Survey*

Hart Crowser conducted a Lead-Based Paint (LBP) survey on May 7 and 8, 2003, at the PACCAR facility, located at 1206 West 196th Street in Torrance, California. This included the interiors and exteriors of Buildings A, B, and C.

The survey of the Site was conducted by Mr. Kevin A. Roberts, (a California-certified Lead Inspector/Risk Assessor) of Hart Crowser. Mr. Emerito Tito of Mighty provided access to the buildings. Lead in paint was assessed by XRF and bulk paint chip sampling and analysis of painted surfaces, in accordance with EPA established guidelines. The materials tested were representative of the various painted surfaces identified on the interior and exterior components of the buildings.

The painted surfaces observed during the survey were generally in good condition. Several small areas of peeling and/or flaking paint were observed during the survey. Ninety-four paint surfaces were analyzed for lead by XRF during the survey from interior and exterior painted surfaces. Four calibrations were performed during the testing. The paint samples were collected from areas with orange, yellow, tan, red, white, blue, silver, and gray paint. Substrate surfaces included concrete, plaster, stucco, drywall, plastic, ceramic, metal, and wood. Survey results were presented in a written report including lead locations, estimated quantities, conditions, management options, and laboratory results. The materials that tested positive for LBP follow.

### Building A

Orange metal building frame (southwest portion of building)
Yellow concrete caution stripes
Orange and yellow overhead traction beams
Orange metal electrical panel
Brown with yellow undercoat metal corner protectors (attached to concrete)
White/metal/exterior pipes (east side of building)
Orange metal door frame
Gray metal-clad doors (fire doors)
Orange wood exterior cabinet (northeast corner of building)
White metal exterior window frames
White ceramic sinks in restroom



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### Building B

Yellow wood dock rails (northwestern side of building)
Tan metal door frame (exterior northeastern side of building)
Tan metal stair rail (exterior northeastern side of building)
Red metal support beams (new paint up to six feet high - west of shipping office)

#### *Shipping Office*

Tan stucco wall
White porcelain sinks in restroom
Ceramic basecove tiles in restroom
White metal exterior siding in shipping office

### Building C

Off-white metal exterior wall

## *3.2 Lead-Based Paint Abatement*

PACCAR selected American Technologies, Inc. (ATI), a California DHS-licensed lead abatement contractor, to provide limited lead abatement on portions of buildings A, B, and C from February 11 to 17, 2004. Hart Crowser personnel provided abatement oversight during this time.

The bollards (pole protectors) in Building A were stripped of LBP and repainted with non-lead-containing paint. The damaged portions of LBP on the overhead traction beam (orange) in Building A were repaired (sanded and repainted with non-lead-containing paint). The damaged portions of LBP on the exterior surfaces of Building C were repaired (sanded and repainted with non-lead-containing paint). The waste from these activities was scheduled to be transported to the Chemical Waste Management's Kettleman Hills Landfill in Kettleman City, California.



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## 4.0 O&M PROGRAM – PERSONNEL

The successful implementation of this O&M Program requires careful and close coordination between the Property Owner and the Lead Program Coordinator (LPC), facility management personnel, employees, contractors, etc. Additionally, in some instances, lead contractors may also be utilized. The responsibilities for the following key personnel are explained below:

### *4.1 Property Owner*

The Property Owner is responsible for the identification of LBP, notification of building personnel of the presence and location of LBP, training maintenance and custodial personnel, employee protection, special work practices, implementing emergency response procedures, disposing of LBP waste, record keeping, and periodic surveillance of LBP. The Property Owner is:

PACCAR Inc.
777 106th Avenue NE
Bellevue, Washington 98004
Attention: Mr. Fred Benz
(425) 468-7901

PACCAR is committed to providing a safe and healthful environment for all personnel, residents, and contractors who currently work at or may otherwise enter the PACCAR facility. The objective of this O&M Program for the PACCAR facility is to minimize the potential hazard posed by the LBPM through a set of specific procedures and practices to maintain the buildings as free of lead contamination as possible.

### *4.2 Lead Program Coordinator (LPC)*

The Lead Program Coordinator (LPC) will be responsible for the implementation and enforcement of this O&M Program. The LPC has responsibility for the day-to-day coordination and oversight of lead-related activities, including O&M procedures and lead abatement. The LPC is:

Mighty USA, Inc.
1206 West 196th Street
Torrance, California
Attention: To Be Announced
(310) 516-7478



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Specific responsibilities of the LPC include:

1. Maintaining a lead-containing material inventory (Appendix E);
2. Notifying management, employees, contractors, etc. at the facility of the presence and known locations of all LBPMs (Appendix A and B));
3. Ensuring the proper safety training (i.e., O&M Training, hazardous communications training for lead) for employees who perform maintenance or housekeeping activities in areas that LBPMs are present;
4. Responding to questions about the O&M Program;
5. Conducting or coordinating surveillance of LBPMs on a routine basis (Appendix C);
6. Maintaining records of notifications, periodic inspections, incident and emergency response activities, training, and other lead-related activities (Appendix D and F);
7. Coordinating with a Department of Health Services (DHS) Certified Lead Professional and licensed lead contractors during construction and maintenance activities that may require handling, removing, or disturbing LBPMs.
8. Coordinating facility personnel during incident and emergency response activities to initially isolate areas where disturbance of LBPMs have occurred, and coordinating with DHS-Certified Lead Professional and a licensed lead contractor in order to complete the isolation and to ensure the clean-up of affected areas; and
9. Ensure compliance with applicable federal, state and local regulations.

## *4.3 Facility Management*

The facility management will be responsible for ensuring employees' compliance with the O&M Program and coordinating maintenance and renovation activities with regard to LBPMs. Specific responsibilities include:

1. Supporting the LPC with regard to lead;
2. Emphasizing to employees the importance of complying with the established O&M Program;
3. Ensuring that the LPC provides proper safety training to specific employees prior to assigning them to work in areas that contain LBPMs; and



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4. Coordinating maintenance and renovation activities with the LPC to ensure that the LBPMs are properly addressed.

## 4.4 Lead Management Consultant

The Lead Management Consultant is an individual Lead Inspector/Assessor, licensed by the State of California, who is knowledgeable and experienced in the field of lead hazard evaluation and control. The Lead Management Consultant advises building management on the procedures for implementing this O&M Program and serves as the liaison between the building management and independent contractors. The current Lead Management Consultant is:

Hart Crowser Inc.
301 East Ocean Boulevard, Suite 1950
Long Beach, California 90802
Attention: Mr. Kevin Roberts
(562) 733-1740

Hart Crowser Inc.
1910 Fairview Avenue East
Seattle, WA 98102-3699
Attn: Mr. Barry Kellems
(206)324-9530

Hart Crowser was responsible for the design of the O&M Program.

## 4.5 Employees

The PACCAR facility employees are responsible for complying with the requirements and procedures established in this O&M Program. The intent of the O&M Program is to ensure that no employees are exposed to any potential lead hazard in the work place. Employees who have questions regarding the O&M Program should contact the LPC, Mighty, or Property Owner.

## 4.6 Contractors

This group includes various types of independent trade or service contractors that are hired by the Property Owner to conduct non-lead-based paint-related work at the PACCAR facility. All facility contractors are responsible for complying with the requirements and procedures established in this O&M Program as well as all applicable federal, state, and local regulations. All contractors are required to fill out all of the proper forms prior to engaging in any lead based paint related work at the facility. The intent of the O&M Program is to ensure that no contractor, contractor's employees, or sub-contractors are exposed to any potential lead hazard in the work place.

Contractors must be notified of locations of identified LBPMs in areas where they intend to conduct their work activities in order to avoid unintentional



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disturbance. By notifying contractors of identified LBPMs, appropriate measures can be taken to avoid disturbing these materials. Contractors who have questions regarding the O&M Program should contact the Property Owner.

## 5.0 THE O&M PROGRAM - DESCRIPTION

The following work procedures have been developed specifically for the facility to manage current LBPMs at the facility. These procedures are intended to minimize the disturbance of LBPMs by employees and contractors who are not licensed lead contractors or personnel trained in accordance with this manual.

In addition to the procedures listed in this section, warning signs have been posted in areas of Buildings A, B, and C where LBP has been identified. The signs serve to notify employees and contractors of the presence of LBP and as a warning not to disturb it without the appropriate authorization and training.

The LPC and employees involved in maintenance activities should be familiar with the following procedures. Should a situation arise that is not covered by these procedures, the LPC or facility management should be contacted immediately and prior to any work activity. The specific responsibilities of the LPC include:

- Develop protective worker protection protocols for jobs that pose low and high risks;
- Train maintenance workers, supervisors, and managers, and implement respiratory protection and medical surveillance programs, when necessary;
- Identify any maintenance work-related lead hazards that could disturb known or suspected LBP surfaces;
- Provide notification to occupants about LBP maintenance work;
- Purchase supplies and equipment, including respirators, plastic sheeting, special cleaners and protective clothing; and
- Designate workers permitted to work on LBP surfaces.

### *5.1 Worker Protection*

The California Department of Health Services (DHS), Title 17, defines Lead Based Paint (LBP) as paint or other surface coatings that contain an amount of lead equal to, or in excess of 0.5% lead by weight (5,000 ppm). The DHS has



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established certain requirements to be followed when disturbing surfaces containing LBP. This includes the use of certified lead inspectors, lead workers, lead supervisors and lead project monitors. Additionally, the California Occupational Safety and Health Administration (Cal/OSHA) has revised the Lead Construction Standard (Title 8 CCR 1523.1) which requires all employees and supervisors engaged in lead-related construction which have been shown to be exposed to lead above certain airborne action levels be DHS-certified lead workers and supervisors.

Conducting these activities in accordance with these regulatory and recommended guidelines, will assist in preventing contamination of the building and environment and ensure workers conducting lead-related work will be adequately protected.

The following components represent some of the protective measures that the Property Owner will implement with the assistance of Mighty and the LPC as part of the O&M Program for the facility:

1. All contractors (no exceptions), maintenance personnel, facility employees, etc., shall be notified of the presence and location of all identified LBPM.
2. Unauthorized individuals (including employees and contractors) should be prohibited from intentionally handling or disturbing LBPMs.
3. Establish procedures for activities that may require handling or disturbing LBPMs.
4. Evaluate LBPMs on a regular schedule (i.e., visual inspection) to identify changes in conditions or accessibility. A blank copy of the Semi-Annual Surveillance Form is provided in Appendix C.
5. Respond to changes in the LBPM condition, so that authorized personnel may promptly respond when LBPMs have become damaged and/or friable.
6. All intentional handling or disturbance of LBPMs (including maintenance, renovation, or removal activities) should be performed by a DHS -certified Lead Professional. Lead services may include:
    - Preparation of specifications for lead-related work;
    - Project monitoring of lead-related work;
    - Personal or project air monitoring;
    - Project dust wipe sampling;
    - Final inspection procedures; and



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- Preparations of final reports and certifications.

7. All lead-related activities shall only be authorized by the Property Owner.
8. Newly discovered LBPMs in a work area undergoing maintenance or renovation activities should be immediately reported to the LPC prior to any handling or disturbance of these materials. The LPC will immediately notify Property Owner.

Maintenance or building supervisors or others who categorize work orders, should determine whether a job entails a risk of exposure to lead and leaded dust. To determine the extent of protective measures when impacting surfaces containing detectable concentrations of lead, the task should be classified as a low- or high-risk job. The following table provides guidance on classifying jobs and protective measures assigned with low- and high-risk jobs.

**Low- and High-Risk Job Designations**
**Disturbing Known or Suspect Lead-Based Paints**

| *Job Description* | *Low Risk* | *High Risk* |
|---|---|---|
| Repainting (Includes Prep) | | X |
| Component Repair | | X |
| Water or Moisture Repair | | X |
| Component Removal/replacement | | X |
| Welding | | X |
| Door Lock repair/replacement | X | |
| Carpet replacement | X | |
| Grounds Keeping | X | |
| Demolition | | X |

Once the job has been classified as low-risk job or high-risk job, protective measures can be determined. The following table provides guidance on the types of protective measures associated with low- and high-risk jobs.

**Summary of Protective Measures for Low- and High-Risk Jobs**

| Protective Measure | Low-Risk | High-Risk |
|---|---|---|
| Work site preparation with 6-mil poly | Plastic sheet no less than 5 feet by 5 feet immediately underneath the work area. | Whole floor, plus simple airlocks at the door |
| Children kept out of work area | Yes | Yes |
| Resident relocation out of work area | No | Yes |



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| Protective Measure | Low-Risk | High-Risk |
|---|---|---|
| Respirators | Probably not necessary | Recommended |
| Protective Clothing | Probably not necessary | Recommended |
| Personal Hygiene | Required | Required |
| Showers | Probably not necessary | Recommended |
| Work Practices | Use wet methods, except near active electrical equipment | Use wet methods, except near active electrical equipment |
| Cleaning | Wet cleaning with lead specific detergent trisodium phosphate or other suitable detergent around the work area. | HEPA vacuum/wet wash/HEPA Vacuum entire area |
| Clearance | Visual Examination | Dust sampling during the preliminary phase of the maintenance |

These two tables should be used on a case-by-case basis. Each job may present unique situations that should be considered by the maintenance supervisor. For example, if a painting job involves only minor touch up (less than 2 square feet per room) or there is no scraping or sanding involved, that particular painting job may be considered to be a low-risk versus a high-risk.

The following are some examples of protective measures that can be used to protect employees during maintenance jobs:

## General Requirements

**Low-Risk Jobs.** For low-risk jobs disturbing a small surface area and not generating much dust, work site containment consists of a relatively small sheet of plastic (no less than 5 by 5 feet) placed underneath the immediate work area. An exception to this rule is ceiling work where dust contamination is likely to be widespread. For most types of ceiling work, the entire floor and all furnishings should be covered with plastic. Doors to the work area should be kept closed until cleanup has been completed.

**High-Risk Jobs.** For those jobs that are high-risk and that have a large surface area, a more involved work site containment procedure is required. Typically, the floor should be covered with plastic sheeting. Furniture, toys, and other belongings should either be moved out of the room or covered with plastic sheeting. A simple airlock should be constructed at the entryways to the area. If



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two entryways exist, one should be sealed in plastic. The air locks consist of two sheets of plastic. One sheet completely taped along all four edges. The tape must be extending all the way around the top, two sides and the floor. The plastic sheet is then cut down the middle. The second sheet is only taped along the top and acts as a flap covering the slit in the first sheet of plastic. As an alternative, the door can be taped on all sides. A weak tape should be used so that workers can quickly break the tape seal in the event of an emergency.

Employees are permitted to reenter work areas at the end of each shift, after the area has been completely cleaned and visually inspected. A high-risk job should be followed by HEPA vacuuming, wet washing with a suitable cleaner, and repeated HEPA vacuuming.

## Respirators

**Low-Risk Jobs.** Respirators are not required unless time-weighted average (TWA) exposures are greater than 50 micrograms per cubic foot as an 8-hour TWA. Unfortunately, virtually no data exist that characterize maintenance worker exposures. OSHA requires respirators to be used whenever certain tasks are performed, unless air sampling demonstrates that exposures are low. These include:

- Manual demolition;
- Manual scraping;
- Manual sanding;
- Heat gun use;
- Power tools (belt sanders, needle guns, and so forth); and
- Spray painting with LBP is not allowed.

Manual scraping and sanding should be performed only after the surface has been moistened. Power tools should be used with HEPA local exhaust vacuum systems. Since typical maintenance exposures may not exceed the permissible exposure limit (PEL), half-face air purifying respirators equipped with HEPA cartridges should be used even for small jobs while the surface is being disturbed. The use of respirators for this brief time period is not particularly burdensome and is likely to provide significant protection.

Respirators must be used in conjunction with a respirator program (1910.134) that requires respirators to be fitted to the individual, cleaned and stored properly, used within their design limits, used by medically fit personnel only (as determined by a physician), and other requirements.



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**High-Risk Jobs.** Respirators are required for all high-risk jobs. If an unusually high level of leaded dust is expected to be generated, respiratory protection will be dictated by the levels of airborne lead present as demonstrated by air monitoring results.

## Protective Clothing

**Low-Risk Jobs.** Protective clothing is not required for low-risk jobs, but is recommended. However, workers must not wear their clothing home, and must ensure that their clothing is laundered separately from their family's clothing.

Work shoes disposable coverings should be worn to avoid tracking dust throughout the dwelling, unless work will conducted on ladders. Shoe coverings are not recommended for those situations posing significant fall or slip hazard.

**High-Risk Jobs.** Protective clothing and footwear are required for all high-risk jobs.

## Personal Hygiene and Showers

**Low-Risk Jobs.** Many studies have revealed that poor personal hygiene can cause lead poisoning. Therefore, thorough washing of the hands and face is required even for low risk jobs. Eating, smoking, drinking, and applying cosmetics while in the work area should not be permitted. Hand to mouth contact should also be minimized. For low risk jobs, showers are not required.

**High-Risk Jobs.** For high-risk jobs, at a minimum, showers may be required based on air sample documentation and work procedures implemented. Additionally, thorough washing of the hands and face should be completed before all breaks. If showers are not provided, workers should change their clothing and put contaminated work clothing in a plastic bag for separate cleaning.

## Work Practices

Protective work practices are the same for both low- and high-risk jobs. Surfaces should be wetted when possible to retard the entrainment of leaded dust into the air. A garden sprayer or pump/squeeze bottle can be used for this purpose. Enough water should be used to coat the surface; use of excessive water can cause runoff and substrate damage. Work should proceed carefully and



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deliberately to reduce the amount of dust generated. Wet methods must not be used near electrical circuits due to potential electrocution hazards.

## Cleaning

**Low-Risk Jobs.** A HEPA vacuum is not required for all low risk jobs, since the plastic sheeting will catch all leaded dust. However, limited wet cleaning with trisodium phosphate (TSP) detergent or lead-specific cleaners should be performed twice on all horizontal surfaces at least 2 linear feet beyond the plastic in all directions. Vertical walls or other building components near the work area should also be cleaned. A mild detergent such as 409® can be used on those surfaces where finish is likely to be marred by the use of TSP. There should be no visible dust in the cleaned area. Brooms should not be used to clean up dust; only wet methods are recommended.

**High-Risk Jobs.** A HEPA vacuum is required for cleanup of high-risk jobs. The entire room should be cleaned following the full HEPA vacuum/HEPA cleanup method. Cleaning should proceed from clean to dirty areas, and from ceiling to the floor. All surfaces in the room that were not covered with plastic should be cleaned. Finally, the floor should be cleaned after the plastic has been removed. The cleaning solution should be changed frequently (at least after each room is cleaned, more frequently, if needed) if spray application is not used.

## Clearance

**Low-Risk Jobs.** For low-risk jobs, a visual inspection conducted by a trained supervisor is sufficient. The supervisor should ensure that all required work has been completed and that there is no visible dust in the immediate vicinity of the work area.

**High-Risk Jobs.** For high-risk jobs, clearance dust sampling is recommended by a DHS lead-certified person for at least every job, in addition to visual examination for every job.

## Waste Disposal

Since maintenance work is part of the routine operations in a building, any waste generated is considered an ordinary waste stream and is not regulated under the Resources Conservation and Recovery Act (RCRA) as hazardous waste. Depending on the local regulatory agency, permits may not be required to dispose of waste generated as a result of ordinary maintenance and repair.



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## 5.2 Training

Since most maintenance supervisors and workers are not typically trained to recognize and correct lead hazards in the course of their regular duties, it may be difficult or impossible for maintenance personnel to determine the level of control necessary for a particular job. Presently, no formal U.S. Environmental Protection Agency (EPA) training curriculum specifically targeted at maintenance personnel exists. However, the OSHA Hazard Communication Standard (29 CFR 1926.62) and the OSHA General Industry Lead Standard (29 CFR 1910.1025) require training.

The Property Owner with the assistance of the Consultant and the on-site oversight of the LPC are responsible for ensuring that all maintenance workers and supervisors who deal with LBP hazards receive adequate training for their work environments. The training should include hands-on practice on implementing various control measures. The training should include a discussion of how the maintenance program at the facility will be implemented to reflect potential lead hazards, and who will make the decisions. The training should emphasize that maintenance workers are not permitted to perform abatement work unless they have completed the state approved Department of Health Services LBP abatement training course(s). Newly hired or trained supervisors or workers should be closely monitored to ensure that appropriate controls are established. If it is determined that members of the maintenance and custodial staff could disturb LBPM during the normal course of their daily work, Property Owner and Mighty will develop a procedure for the identified activity.

If outside contractors are employed to conduct maintenance work, they must also be trained and notified if their work will disturb LBP surfaces. Proof of contractor staff training should be verified by the Property Owner and the LPC before any maintenance work is undertaken. At a minimum, the training should cover the following topics:

- The definition of lead;
- Lead health affects;
- Regulations;
- Modifications to existing maintenance operations;
- Listing of known or suspected surfaces containing LBP;
- Methods of identifying lead;
- Distinguishing between low and high risk jobs;
- Work practices (use of tools, HEPA vacuums. Wet methods, etc);
- Prohibited methods of removing LBP;

- Personal Hygiene;
- Work site preparation;
- Respirator program and fit testing;
- Medical surveillance;
- Cleanup and post job visuals inspections;
- Clearance procedures;
- Waste handling and storage; and
- Employee and staff relations.

An accredited lead training provider should conduct the training. In addition, a licensed risk assessor, certified industrial hygienist, nurse, physician, or other qualified adult educator, can conduct the training. If necessary, the Property Owner, Consultant, or the LPC can provide the training if they have completed DHS lead supervisor training.

### Education of Staff and Employees

Maintenance workers may be required to use respirators and protective clothing in occupied units, erect containment systems, and use special equipment. Therefore, employees and staff must be informed about reasons for these measures. It is important that all elements of the lead hazards plan be fully developed, to reassure employees and staff that no hazards will be created as a result of work. Local health departments and childhood lead poisoning prevention programs can assist Property Owner in properly educating employees and staff about lead hazards.

## *5.3 Special Work Practices*

There are a variety of ways in which maintenance work can inadvertently create lead hazards where none previously existed, or worsen hazards that were already present. Activities which could disturb painted surfaces containing detectable concentrations of lead should be conducted in accordance with DHS and Cal/OSHA standards and the guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, dated June 1995 (HUD Guidelines). Such activities may include painting and surface preparation activities, demolition and construction alteration work. Conducting certain activities such as manual scraping, heat gun applications, power tool cleaning, etc. on surfaces containing 0.06% (600 ppm) requires employers to provide basic protective provisions, such as respiratory protection, personal protective equipment, and biological monitoring. The following items describe some common examples of high-impact maintenance work as it relates to LBP.

## Paint Abrasion or Other Disturbance

The most common problem involves maintenance work that disturbs or rubs against a painted surface. Common activities such as sanding, scraping, hammering, cutting, or grinding on surfaces coated with LBP or lead-contaminated dust can create exposures. Torch cutting or welding on painted surfaces is especially dangerous and is prohibited under OSHA regulations (the paint must be removed before torch cutting or welding). Although most individual maintenance activities do not last very long, it is possible to cause a significant exposure for the worker and the occupant. For example, power sanding on LBP surfaces has exposures as high as 11,000 micrograms per cubic meter. Other typical tasks, such as carpet removal, have also been shown to result in exposures well above the OSHA Permissible Exposure Limit (PEL) 8-hour time Weighted Average (TWA), depending on how long the exposures last (NIOSH 1990). While there is not adequate information on exposures during routine maintenance jobs, exposures can be kept well below the limit if the work is carefully conducted (NIOSH 1990). In other words, paint deterioration should no longer be regarded as a minor cosmetic problem.

## Water Damage

Water damage can occur from sudden circumstances, such as bursting pipes; overflowing tubs, sinks, or fixtures; storms causing holes in the roofs. Water damage can also occur from slower occurrences, such as condensation, slow leaks in pipes or fixtures, improper building drainage around perimeter, or accidental neglect (leaving window open during rain or running faucets). In traditional maintenance work, it is customary to repair only the source of the water leak, especially in emergency situations. In some cases, the paint deterioration may not be evident until several weeks following the leak repair and may be left accessible. However, if LBP is present, paint deterioration deserves as much attention as the hole in the roof would receive. The paint should be repaired as quickly as possible using controlled work practices.

## Dust Exposures

Many types of maintenance work can release substantial quantities of dust into ambient or occupied areas. Examples include repainting, sanding or chipping. Typical maintenance practices employ the use of drop cloths, and cardboard or newspaper to protect walkways or corridors floors. If drop cloths are made of canvas, they can trap and retain lead dust. The following methods can aid in the control of lead-contaminated dust exposures to occupants.

A. Using wet methods;
B. Covering furnishings with disposable plastic drop cloths;
C. Using foot coverings and overalls to minimize exposure and tracking;
D. Sealing rooms to avoid dust migration; and
E. Using approved respirators.

### Grounds Keeping

If soil is contaminated, certain grounds keeping activities can pose a risk to workers and occupants, such as excavation to lay new pipes, or sodding the soil. Bare soil can be more easily tracked into dwellings where it becomes part of the household dust and where people can be exposed to it. If soil is known to contain high concentrations of lead or has yet to be tested, simple protective measures can be introduced to control exposures. Keeping the soil wet is usually effective, as long as proper erosion control measures are established. Disposable shoe coverings or dedicated work shoes will prevent tracking contaminated soil into dwellings or medical center.

## 6.0 O&M PROGRAM INITIATION

This O&M Program must be available in the LPC's office for inspection, review and photocopying by all tenants and occupants of the PACCAR facility during normal working hours, including lunch and break periods. It may be revised or amended periodically by the Consultant. Comments about the Program and its provisions are encouraged and welcomed at any time.

The O&M Program should be initiated by the Consultant utilizing the following procedures:

1. Formally designate controlled areas and materials by completing the LBP Inventory Form (Appendix E). This form is complete and incorporated into this document.

2. Issue a notification to employees using the Employee/Tenant Notification Letter (Appendix A) which explains the locations of LBPMs, instructs them to avoid these materials, and to report damaged materials or debris to the LPC. Employees are prohibited from conducting activities which would disturb LBPMs.

3. All employees should be informed on an annual basis about the location of LBPMs, instructed to avoid disturbing this material, and the procedure to report



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damaged or suspect debris. A brief summary of the Program should be provided for the tenants, as well as information on where they can access the Program for review or copying during business hours.

4. Maintenance contractors must be notified, using the Contractor/Subcontractor Notification Letter (Appendix B), where LBPMs are located in the facility, that these materials must not be disturbed by any of their employees, and that trained personnel and/or a lead abatement contractor will be required if a task requires disturbance of LBPMs. The lead abatement contractor retained to perform operations and maintenance activities will be notified in the contract document or separate letter about the location and content of LBPMs.

5. Select and retain, under contract with unit pricing, a lead abatement contractor for operation and maintenance activities of a routine and emergency nature.

6. Establish a record keeping system for LBPM documentation.

## 7.0 RECORDKEEPING

Documentation of all lead-related training, notifications, surveillance, and activities should be completed and maintained by the LPC and filed at the facility.

### *7.1 Notification*

The Property Owner must inform those who may come into contact with LBPM about its location to prevent inadvertent disturbance. These include building management employees, building tenants, and maintenance contractors, as well as the lead abatement contractor. Some examples of useful forms to be utilized in the O&M Program are provided in the following appendices:

- Appendix A - Employee/Tenant Notification Letter. The letter should be completed by the LPC and provided to facility management, maintenance personnel, etc., who manage or work in an area which contains LBP.
- Appendix B - Contractor/Subcontractor Notification Letter. The letter should be completed by the LPC and provided to all contractors and subcontractors who perform work at the facility.
- Appendix C - Semi-Annual Surveillance Form. The form should be used to update the presence and condition of LBP at the facility.



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- Appendix D - Work Permit Log. The log should be maintained by the LPC to document issuance of work permits to lead abatement contractors, for work activities at the facility.
- Appendix E - Lead-Based Paint Inventory Form. The form should be completed by Consultant.
- Appendix F - List of Equipment and Supplies. This list can be updated as necessary for use during in-house activities involving LBPMs.

# 8.0 LEAD STANDARDS

## *8.1 California Lead Laws*

California lead laws are also referred to as "statutes" and are enacted by the State legislature through passage of Assembly or Senate Bills. The following is a brief summary of some of California Lead Laws, which may be related to O&M activities. Not all of the laws have been provided in this document. A full text version of these laws can be viewed at www.childlead.com

### Lead Accreditation and Certification Program (California Health & Safety Code 105250)

This establishes a program to accredit lead-related construction training providers and to certify individuals to conduct lead-related construction activities.

### Lead-Related Activities in Construction Work (Labor Code 6716 to 6717)

This law provides for the establishment of standards that protect the health and safety of employees who engage in lead-related construction work, including construction, demolition, renovation, and repair.

### Real Estate Disclosure Requirements (Civil Code 1102 to 1102.16)

This law requires the disclosure of known LBP hazards upon sale of a real property.

## 8.2 California Lead Regulations

California lead regulations are referred to as "standards" and are written and filed by one or more state programs in response to law/statute. Regulations/standards serve to implement the mandates of a law/statute. In other words, regulations/standards establish the detailed requirements for doing what the law/statute requires. The following is a brief summary of some of California Lead Regulations. Not all regulations have been provided in this document. A full text version of these laws can be viewed at www.childlead.com

### Title 17, California Code of Regulations, Division 1, Chapter 8: Accreditation, Certification and Work Practices for Lead-Based Paint and Lead Hazards

This standard was developed to regulate activities that generate lead hazards to prevent current and future sources of lead exposure and to reduce the incidence of lead poisoning. Additionally, this regulation provides standards which identify lead hazards to expedite medical intervention for primary and secondary preventive activities to interrupt exposure pathways. This regulation also sets standards for accreditation, certification, and work practices to protect the public from untrained, uncertified individuals conducting activities in an unsafe manner.

### Cal/OSHA Lead Construction Standard (8 CCR 1532.1)

This standard as well as the Federal Lead Construction Standard (29 CFR 1926.62) covers all construction work where an employee may be exposed to lead. All construction work excluded from coverage in general industry standard for lead by section 5216(a)(2) is covered by this standard. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

A. Demolition or salvage of structures where lead or materials containing lead are present;
B. Removal or encapsulation of materials containing lead;
C. New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
D. Installation of products containing lead;
E. Lead contamination/emergency cleanup;
F. Transportation, disposal, storage, or containment of lead



PACCAR 01800

or materials containing lead on the site or location at which construction activities are performed; and

G. Maintenance operations associated with the construction.

### Guidelines for the Evaluation and Control of Lead-Based Paint in Housing (June 1995)

The U.S. Department of Housing and Urban Development (HUD) prepared these guidelines in close coordination with the EPA, Centers for Disease Control (CDC), OSHA, and several other federal agencies. You should be aware that lead hazard control is a rapidly changing field in which new products, methods, procedures, and standard are being introduced frequently. Therefore, guidelines will be updated periodically as research and experiences provide new information, as technology advances, and as federal regulations are revised. HUD welcomes comments and suggestions on ways to improve these guidelines.

The introductory chapter explains further the legislative basis for these guidelines, the intended readership and the relationship of the guidelines to federal regulations. Additionally, the introductory chapter includes a brief summary of the problems associated with childhood lead poisoning, and explanation of the basic concepts that underlie the methods and procedures set forth in the guidelines, and a description of how the document is structured.

### The guidelines were issued pursuant to Section 1017 of the Residential Lead-Based Paint Hazard Reduction Act of 1992, which is often referred to as Title X.

The guidelines are to be used as guidance for conducting lead-related work. This includes following procedures for identifying lead hazards and lead-based paint, procedures to follow when disturbing LBPMs as well as conducting interim control operations, and procedures for conducting clearance inspections and dust wipe sampling.

## 9.0 LIMITATIONS

Conditions described in this report are as found at the time of investigation, unless otherwise stated. Hart Crowser sampled only the substances, conditions, and locations described in this report at the time indicated. No inferences

regarding other substances, conditions, location or time can be made unless specifically stated in this report.

The conclusions and recommendations presented are based on the agreed upon scope of work outlined in this report.

## 10.0 REFERENCES

Guidelines for the Evaluation and Control of Lead-Based Paint in Housing (June 1995)

Lead Accreditation and Certification Program (California Health & Safety Code 105250)

Lead-Related activities in Construction Work (Labor Code 6716 to 6717)

Real Estate Disclosure Requirements (Civil Code 1102 to 1102.16)

Residential Lead-Based Paint Hazard Reduction Act of 1992, Section 1017, (often referred to as Title X).

Title 8, California Code of Regulations, Section 1532.1: Cal/OSHA Construction Safety Orders, Lead (Lead Construction Standard)

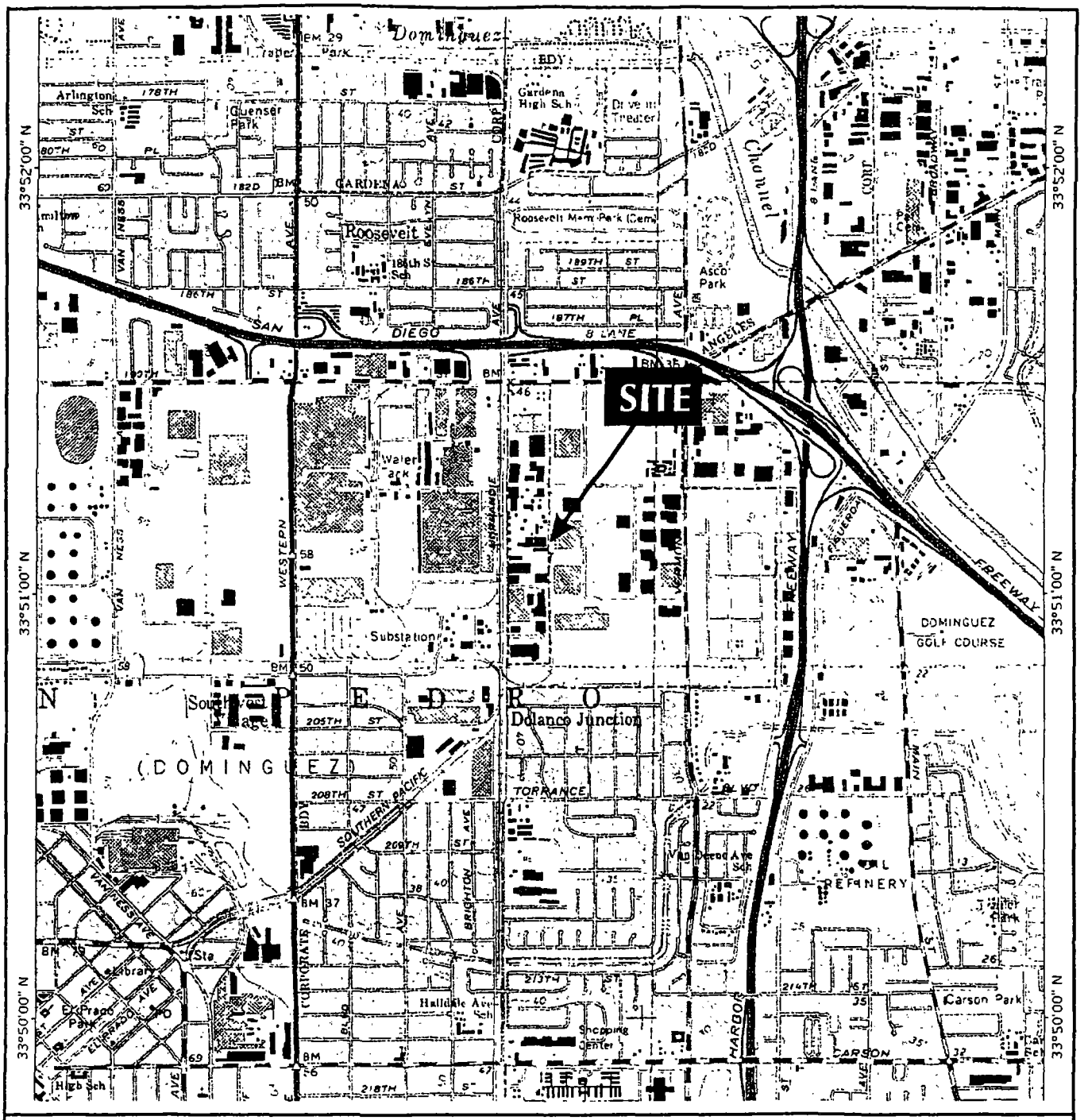
Title 17, California Code of Regulations, Division 1, Chapter 8: Accreditation, Certification and Work Practices for Lead-Based Paint and Lead Hazards

F:\docs\jobs\1613500\LBP O&M Plan Final.doc



PACCAR 01802

Figures




0 1/2 1 MILE
0 1000 FEET 0 500 m 1000 m

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

N

HARTCROWSER

HC PROJECT NO : 16135

DATE: MARCH 30, 2004

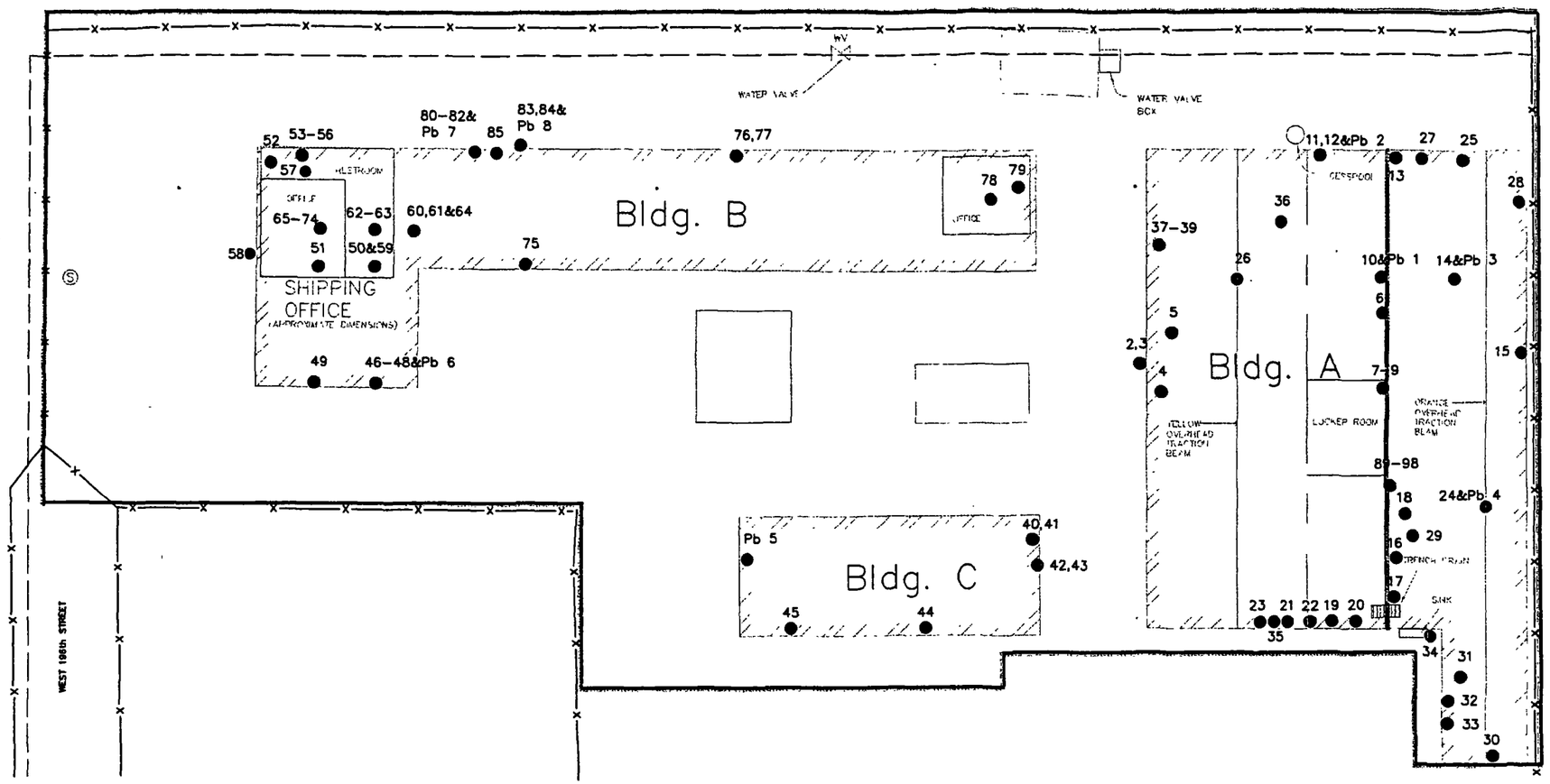
PROJECT NAME: FORMER TRICO FACILITY

SITE LOCATION MAP
1206 W. 196th STREET
TORRANCE, CALIFORNIA

FIGURE 1

PACCAR 01804

R R Donelly & Sons Co.




LEGEND:

- 1 — XRF Paint Sampling Locations (Approximate)
- Pb 1 — XRF Paint Chip Sampling Locations (Approximate) Analyzed by Certified Laboratory
- Site Boundary
- Building

N

Scale in Feet

0 20 40

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

HARTCROWSER

LEAD-BASED PAINT SAMPLING LOCATIONS

Project Number: 16135
*Date: May 19, 2003*
Revised: March 30, 2004

Prepared by: _____
Checked by: _____

File F:Data/Jobs/16000s/16135/Figures/AutoCAD/Lead Based Paint Sampling Locations revised 3-30-04.dwg

FIGURE 2

# APPENDIX A

# NOTIFICATION LETTER



PACCAR 01806

**PACCAR Inc FACILITY**
**1206 WEST 196TH STREET**
**TORRANCE, CALIFORNIA**

MEMO TO:

RE: LEAD PAINT NOTIFICATION

DATE:

Proposition 65, (CA. HSC 22180 et. sec), California's Safe Drinking Water and Toxic Enforcement Act, requires that the Governor of the State of California revise and republish at least once a year a list of chemicals and substances known to the state to cause cancer and/or reproductive toxicity. Several hundred chemicals and substances have been identified and are currently on that list. You have probably seen Proposition 65 notices at food stores, bars, gas stations, and other locations throughout the State of California. Lead has been placed on this list as cancer-causing agents. Proposition 65, therefore, requires warning for environmental and occupational exposures which include exposure to lead.

The PACCAR (former TRICO) facility was originally developed in the 1940s with later additions and renovations occurring in the 1950s and 1960s. During those times lead-based paint was a widely used industry standard material in construction of buildings. Lead based paint is present in the following locations at the PACCAR facility:

Building A
Orange metal building frame (southwest portion of building)
Yellow concrete caution stripes
Orange and yellow overhead traction beams
Orange metal electrical panel
Brown with yellow undercoat metal corner protectors (attached to concrete)
White/metal/exterior pipes (east side of building)
Orange metal door frame
Gray metal-clad doors (fire doors)
Orange wood exterior cabinet (northeast corner of building)
White metal exterior window frames
White ceramic sinks in restroom

Building B
Yellow wood dock rails (northwestern side of building)
Tan metal door frame (exterior northeastern side of building)
Tan metal stair rail (exterior northeastern side of building)
Red metal support beams (new paint up to six feet high - west of shipping office)

*Shipping Office*
Tan stucco wall

White porcelain sinks in restroom
Ceramic basecove tiles in restroom
White metal exterior siding in shipping office

Building C
Off-white metal exterior wall

A lead-based paint O&M Program has been prepared for the PACCAR facility. This program includes the following: (1) Identification and listing of all lead-based paint coating materials and their locations: (2) building policies for addressing lead-based paint: (3) communications requirements: (4) training requirements: (5) monitoring and surveillance requirements: (6) procedure for lead-based paintwork: and (7) a brief discussion of these materials.

Proper maintenance is important to control the release of lead-based paint from any building materials. As a general rule, occupants should follow these specific guidelines:

- Do not drill into any doors, frames, or trim siding.
- Do not sand any doors, frames, or trim siding.

Finally, if you are contemplating any tenant improvements, it is critical that those planned improvements be reported to and reviewed well in advance with Management. Please immediately report any damage to the Management Office.

If you have any questions regarding this notice, need further information, or have any plans for the tenant improvements, which might disturb any of the materials, please contact Property Owner during regular business hours.

Your cooperation with respect to the health and safety of all is appreciated.



PACCAR 01808

# APPENDIX B

## CONTRACTOR NOTIFICATION LETTER





PACCAR 01809

## CONTRACTOR NOTIFICATION LETTER

Date:_____

Company Name:_____
Company Address:_____

RE: The PACCAR Inc Facility
Torrance, California

To_____

The subject property was recently surveyed for the presence of lead-based paints. Paint chips sampling and XRF testing were conducted for buildings A, B, and C on the property. Lead-based paint was identified for each of the three buildings. The damaged lead-based paint was removed from the buildings. A copy of the lead-based paint survey is available for review in the management office. The mere presence of lead-based paint does not present a health hazard. To be hazardous, the lead must be disturbed or released into the environment to be hazardous.

The materials described above are in good condition and do not currently present a health hazard to employees or staff. It is our intention to implement policies and procedures sufficient to ensure that these conditions continue to prevail. We will continue to monitor and test the materials on a periodic basis to confirm their status. In addition, an Operations & Maintenance Program contains special procedures.

Because of strict guidelines established by the Operations & Maintenance Manual, it is essential that you obtain the approval of the Property Owner before any work is performed that may disturb suspect or known lead-based paint.

We request your assistance and cooperation to ensure that employees, staff and visitors to the PACCAR Inc facility remain safe as well as your employees. If you have any questions, or wish to review the Operations & Maintenance Manual or the original survey results, please contact the Managers Office.

Sincerely,

PACCAR Inc Facility

# APPENDIX C

## SEMI-ANNUAL SURVEILLANCE FORM





PACCAR 01811

# PERIODIC SURVEILLANCE LOG

## PACCAR Inc Facility

| Change LBP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Location | Description | Amount | Caused By* | | | | | | Recommended Response |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | |
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*Column Key

1 - Abrasion 2 - Water 3 - Deterioration

4 - Vibration 5 – LBP 6 - Disturbance

# APPENDIX D

# WORK PERMIT LOG



PACCAR 01813

# WORK PERMIT LOG

| PROJECT NAME: | PROJECT NUMBER: _____ |
|---|---|
| SITE CONTAMINANTS: | |

PPE REQUIREMENTS (check all that apply):

Safety glasses __Gloves (specify)

Safety boots __Clothing (specify)

Hard hat __Respirator (specify)

__Other (specify)

The following personnel have reviewed a copy of the Site-specific Operations and Maintenance Plan. By signing below, these personnel indicate that they have read the plan, including all referenced information, and that they understand the requirements which are detailed for this project.

| PRINTED NAME | SIGNATURE | PROJECT DUTIES | DATE |
|---|---|---|---|
| | | | |
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# APPENDIX E

## LEAD-BASED PAINT INVENTORY FORM





PACCAR 01815

## LEAD-BASED PAINT INVENTORY FORM

**Area/Location: Building A**

| Surface | Known LBP | Suspected LBP | No LBP Present |
|---|---|---|---|
| Orange Metal Building Frame | X | | |
| Other Building Frames | | | |
| Yellow Concrete Caution Stripes | X | | |
| Other Floor Striping | | | |
| Overhead Traction Beams | X | | |
| Other Overhead Beams | | | |
| Support Beams | | | |
| Metal Electrical Panel | X | | |
| Undercoat Metal Corner Guards | X | | |
| Exterior Pipes | X | | |
| Gray Metal Clad Doors | X | | |
| Other Doors | | | |
| Orange Metal Door Frame | X | | |
| Other Door Trim | | | |
| Orange Wood Exterior Cabinet | X | | |
| Exterior Windows Frames | X | | |
| White Ceramic Sinks in Restroom | X | | |
| Other Sinks | | | |
| Ceramic Tiles | | | |
| Walls | | | |
| Ceiling | | | |
| Baseboards | | | |
| Other Trim | | | |

**Area/Location: Building B**

| Surface | Known LBP | Suspected LBP | No LBP Present |
|---|---|---|---|
| Building Frames | | | |
| Floor Striping | | | |
| Overhead Beams | | | |
| Red Metal Support Beams | X | | |
| Tan Metal Stair Rail | X | | |
| Yellow Wood Dock Rails | X | | |
| Doors | | | |
| Tan Metal Door Frame | X | | |
| Other Door Trim | | | |
| Exterior Windows Frames | | | |
| Porcelain Sinks in Restroom | X | | |
| Other Sinks | | | |
| Ceramic Tiles in Restroom | X | | |
| Stucco Wall in Shipping Office | X | | |
| Other Walls | | | |
| Exterior Siding in Shipping Office | X | | |
| Ceiling | | | |
| Baseboards | | | |
| Other Trim | | | |

**Area/Location: Building C**

| Surface | Known LBP | Suspected LBP | No LBP Present |
|---|---|---|---|
| Building Frames | | | |
| Floor Striping | | | |
| Overhead Beams | | | |
| Support Beams | | | |
| Doors | | | |
| Door Frames | | | |
| Door Trim | | | |
| Exterior Windows Frames | | | |
| Sinks | | | |
| Ceramic Tiles | | | |
| Off-White Metal Exterior Wall | X | | |
| Other Walls | | | |
| Ceiling | | | |
| Baseboards | | | |
| Other Trim | | | |

# APPENDIX F

## LIST OF EQUIPMENT AND SUPPLIES





PACCAR 01819

## LIST OF EQUIPMENT AND SUPPLIES

The following is a recommended list of equipment and supplies to be maintained by the LPC for use during in-house activities involving LBPMs:

A. Personal Protective Equipment
   1. Respirators
      a. ½ Face negative pressure air-purifying respirators.
      b. Full face powered air-purifying respirators for use when disturbing Lead-Based Paint.
      c. High Efficiency Particulate Air (HEPA) filters for each type of respirator.
   2. Disposable Suits
      a. Full body suits with attached head and foot covers.

B. Equipment
   1. HEPA Vacuum cleaners with attachments with extra filters and bags.
   2. Amended water and hand pump spray containers.
   3. TSP or other detergent for lead clean up.
   4. Low volume air sampling pumps and chargers.
   5. Calibrated rotometers.
   6. Air sampling cassettes.
   7. Utility knives, bone saw, scrub brushes, wire cutters, staplers.

C. Supplies
   1. Six-mil plastic bags and sheeting.
   2. Duct tape.
   3. Warning signs and barrier tape for lead.
   4. Lead warning labels.
   5. DOT approved drums for waste disposal.
   6. Smoke tubes
   7. Rags.
   8. Encapsulant.
   9. Surfactant.
   10. Spray adhesive.
   11. Extension cords.



PACCAR 01820

www.hartcrowser.com

Anchorage
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
819 Church Rd, Suite 236
Cherry Hill, New Jersey 08002-1465
Fax 856.773.4106
Tel 856.773.4101

Portland
One Centerpointe Drive, Suite 240
Lake Oswego, Oregon 97035-8652
Fax 503.620.6918
Tel 503.620.7284

Seattle
2810 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206.324.5581
Tel 206.324.9530

Printed on a minimum 10% recycled post-consumer fiber

PACCAR 01821

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

23386700

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No. CAC002581802 | Manifest Document No. | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
PACCAR
777 106th Avenue, Northeast*, Bellevue, WA 98004
4. Generator's Phone 425 468-7901 POC: Fred Benz

A. State Manifest Document Number 23386700
B. State Generator's ID
C. State Transporter's ID (Reserved)
D. Transporter's Phone (951) 509-6885
E. State Transporter's ID (Reserved)
F. Transporter's Phone
G. State Facility's ID CAD088504881
H. Facility's Phone (714) 738-8516

5. Transporter 1 Company Name: Environmental Management Techs
6. US EPA ID Number: CAR000065599
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Kinsbursky Brothers, Inc.
1314 N. Lemon Street
Anaheim, CA 92801
10. US EPA ID Number: CAD088504881

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste Number |
|---|---|---|---|---|---|
| a "RQ" Hazardous Waste, Solid, n.o.s., 9, NA3077, III (D008) (Debris with Lead) | 003 | DM | 00300 ~~0003~~ | P | State 181; EPA/Other D008 |
| b | | | | | State; EPA/Other |
| c | | | | | State; EPA/Other |
| d | | | | | State; EPA/Other |

J. Additional Descriptions for Materials Listed Above
Approval #: 11a *Site address: 19706 S. Normandie Avenue Terrance, CA 90502
#9463

K. Handling Codes for Wastes Listed Above
a. 1403 b. c. d.

15. Special Handling Instructions and Additional Information
ERG #: 11a 171
24 hours emergency #: (951) 509-6885
Please bill to: RRD Environmental Services
19629, Alida Avenue, Cerritos, CA 90703
Phone: (562) 843 3154

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: FRED J. BENZ | Signature | Month 09 Day 15 Year 04

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Cesar Barrera | Signature | Month 09 Day 23 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 hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: VICTOR GORTEZ | Signature | Month 09 Day 29 Year 04

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/99)
EPA 8700—22

PACCAR 01822

KINSBURSKY
BROTHERS INC

1314 N Anaheim Blvd
Anaheim, CA 92801

PITNEY BOWES

1810 U.S. POSTAGE PB5549162
0821 $00.37 0 OCT 26 2004
8398 MAILED FROM ZIP CODE 92801

PACCAR
777 106TH AVENUE NORTHEAST
BELLEVUE, WA. 98004

98004+5027 54

PACCAR 01823

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter. 088-05

**See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

25030316

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

# UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: CAL000288892 | Manifest Document No: 303116 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address: FORMER TRICO, TORRANCE FACI
1206 W 196TH ST.
TORRANCE CA 90502

4 Generator's Phone: 714 240-4731

A. State Manifest Document Number: 25030316

B. State Generator's ID:

5 Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC

6 US EPA ID Number: TXR000050930

C. State Transporter's ID [Reserved.]:

D. Transporter's Phone: ~~619 582-5420~~

7 Transporter 2 Company Name:

8 US EPA ID Number:

E. State Transporter's ID [Reserved.]:

F. Transporter's Phone:

9 Designated Facility Name and Site Address: 050122
DEMENNO / KERDOON
2000 NORTH ALEMEDA STREET
COMPTON CA 90222

10 US EPA ID Number: CAT080013352

G. State Facility's ID: CAT080013352

H. Facility's Phone: 310 537-7100

| 11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12 Containers No | 12 Containers Type | 13 Total Quantity | 14 Unit Wt/Vol | I Waste Number |
|---|---|---|---|---|---|
| a HAZARDOUS WASTE, LIQUID, N.O.S. (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) 9 NA3082 PG III (ERG#171) | 002 | DM | 001100 | G | State 135; EPA/Other D039 |
| b | | | | | State; EPA/Other |
| c | | | | | State; EPA/Other |
| d | | | | | State; EPA/Other |

THIS WA[illegible] FOR RECYCLING [illegible] DeMENNO/KERDOON FACI[illegible] COMPTON, CALIFORNIA. THIS FACILITY HAS THE NECESSARY PERMITS TO RECEIVE YOUR WASTE STREAM AS QUALIFIED. OUR EPA NUMBER IS CAT080013352.

J Additional Descriptions for Materials Listed Above: IA) D040

K. Handling Codes for Wastes Listed Above: a 01 | b | c | d

15 Special Handling Instructions and Additional Information: MFST R/T#107389215 0003-0015-68
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY
#PO 750153738 SKDOT# A: 171276 B: C: D:

16 **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

GENERATOR — Printed/Typed Name: [illegible] | Signature: [illegible] | Month 06 Day 02 Year 06

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jose Limas | Signature: [illegible] | Month 06 Day 02 Year 06

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 hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Rodney Murder | Signature: [illegible] | Month 06 Day 09 Year 06

**DO NOT WRITE BELOW THIS LINE.**

PROL# A)0002304917
SMPL# A)0040147656

Yellow — TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (1/99)
EPA 8700—22

# Certificate of Treatment/Recycling

ISSUED TO

FORMER TRICO TORRANCE
FACILITY

FOR

MANIFEST NUMBER 25030316 DATE RECEIVED 6/9/2006

The aqueous waste received on the above manifest will be treated to standards mandated by the FEDERAL CLEAN WATER ACT and to effluent requirements established by the Sanitation Districts of Los Angeles County. Waste treatment and recycling is performed under permits granted to DeMENNO/KERDOON, a California Corporation, by the California Department of Toxic Control (DTSC), in coordination with the Environmental Protection Agency, in accordance with the provisions of the Resource Conservation and Recovery Act (RCRA) of 1976, together with applicable federal and state regulations including but not limited to waste discharge requirements established by the Sanitation Districts of Los Angeles County.

When the above described waste material is accepted by DeMENNO/KERDOON and treated/recycled and the aqueous phase discharged for further treatment by the Sanitation Districts, the certificate holder's responsibility for the waste material is eliminated under both RCRA and Proposition 65. Upon request, DeMENNO/KERDOON will issue this certificate that all waste material has been handled in accordance with applicable permits and the certificate holder's liability has been terminated.

*DeMENNO/KERDOON*
*"Compliance Through Recycling"*

*By:* _____ *Date:* 6/19/2006

*Cyrus Pourhassanian*
*Laboratory Manager*

*2000 North Alameda Street ❑ Compton ❑ California ❑ 90222*
*Telephone (310) 537-7100 ❑ Facsimile (310) 639-2946*

© 2004 GOES 441CN

LITHO IN U S A

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type *Form designed for use on elite (12-pitch) typewriter.* 088-05

**See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

25030316

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No: CAL000288892 — Manifest Document No: 303116 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: FORMER TRICO TORRANCE FACI
1206 W 196TH ST.
TORRANCE CA 90502

4. Generator's Phone: 714 240-4731

A. State Manifest Document Number: 25030316

B. State Generator's ID:

5. Transporter 1 Company Name: SAFETY-KLEEN SYSTEMS, INC — 6. US EPA ID Number: TXR000050930

C. State Transporter's ID (Reserved.)

D. Transporter's Phone: 619 582-5420

7. Transporter 2 Company Name — 8. US EPA ID Number

E. State Transporter's ID (Reserved.)

F. Transporter's Phone:

9. Designated Facility Name and Site Address: 050122
DEMENNO / KERDOON
2000 NORTH ALEMEDA STREET
COMPTON CA 90222

10. US EPA ID Number: CAT080013352

G. State Facility's ID: CAT080013352

H. Facility's Phone: 310 537-7100

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No | Type | 13. Total Quantity | 14. Unit Wt/Vol | I. Waste Number |
|---|---|---|---|---|---|
| a. HAZARDOUS WASTE, LIQUID, N.O.S. (TETRACHLOROETHYLENE, TRICHLOROETHYLENE) 9 NA3082 PG III (ERG#171) | 001 | DM | 00100 | G | State 135 / EPA/Other D039 |
| b. | | | | | State / EPA/Other |
| c. | | | 15/16 | | State / EPA/Other |
| d. | | | | | State / EPA/Other |

J. Additional Descriptions for Materials Listed Above
IA) D040
PLEASE SEE ATTACHED

K. Handling Codes for Wastes Listed Above
a. b. c. d.

15. Special Handling Instructions and Additional Information
MFST R/T#107389215 0003-0015-68
EMERGENCY RESP 800-468-1760(24 HR). IF UNDELIVERABLE RETURN TO GENERATOR.
SK CORP AUTHORIZED TO RETAIN LICENSED SUBSEQUENT CARRIERS AS NECESSARY.
SKDOT# A: 171276 B: C: D:

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford

Printed/Typed Name: [illegible] (PACCAR) — Signature: [illegible] — Month 01 Day 02 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jose Lemus — Signature: [illegible] — Month 01 Day 02 Year 06

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 hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name — Signature — Month Day Year

**DO NOT WRITE BELOW THIS LINE.**

PROL# A)0002304917
SMPL# A)0040147656

DTSC 8022A (1/99)
EPA 8700—22

Yellow GENERATOR RETAINS

PACCAR 01826

CWMI

NH10070406

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. E.X.E.M.P.T. | Manifest Document No. 093 04 | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address
PACCAR INC
~~19706 S NORMANDIE AVE~~ 1206-196TH ~~STREET~~
TORRANCE CA 90502
4. Generator's Phone ( ~~206 324 9530~~ (425) 468-7901

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| PHILIP TRNSPortation and Remediation INC | CAD063547996 | 800 321 1030 |
| 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 |
| CHEMICAL WASTE MANAGEMENT, INC.<br>35251 OLD SKYLINE ROAD<br>KETTLEMAN CITY CA 93239 | CAT000646117 | (559)386-9711 |

| 11 Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14 Unit Wt/Vol |
|---|---|---|---|---|
| a. NON HAZARDOUS WASTE, LIQUID, RINSEATE WATER | 004 | DM | 01600 | P. |
| b. | | | | |
| c | | | | |
| d. | | | | |

D Additional Descriptions for Materials Listed Above
a. EC5981

E Handling Codes for Wastes Listed Above
DM2-4 DM#1
S/03 03

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract

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 |
|---|---|---|
| FRED S. BENZ | [signature] | 09 30 04 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month Day Year |
|---|---|---|
| Marco A Hernandez | [signature] | 09 30 04 |

18. Transporter 2 Acknowledgement of Receipt of Materials

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

19 Discrepancy Indication Space
~~1A~~) DM #1 S/B NON Hazardous Waste, SOLID, per Barry Kellums @ Hart Consol
JW 10/14/04

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 |
|---|---|---|
| Jamie Ward | Jamie Ward | 10 07 04 |

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

PACCAR 01827

CWMI

NHD070407

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: EXEMPT

Manifest Document No.: 93004

2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC
~~19706 S NORMANDIE AVE~~ 1206-196th Street
TORRANCE CA 90502

4. Generator's Phone ( ~~206 824 9530~~ 425-468-7901

5. Transporter 1 Company Name: Philip Transportation and Remedial Svc

6. US EPA ID Number: CAD 0 6 3 5 4 7 9 9 6

A. Transporter's Phone: 800 321 1038

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
35251 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239

10. US EPA ID Number: C A T 0 0 0 6 4 6 1 1 7

C. Facility's Phone: (559)386-9711

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON REGULATED MATERIAL, ( CAL-EMPTY DRUMS ) | 028 | DM | 00560 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
B. EC5980

E. Handling Codes for Wastes Listed Above
03

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract

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: FRED S. BENZ | Signature | Month Day Year: 10 9 04

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Maria A Hernandez | Signature | Month Day Year: 10 9 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: Jamie Ward | Signature: Jamie Ward | Month Day Year: 10 09 04

ORIGINAL - RETURN TO GENERATOR

www.hartcrowser.com

**HARTCROWSER**
*Delivering smarter solutions*

Anchorage

*Letter of Transmittal*

*To:* PACCAR, Inc.
777 106th Avenue NE
Bellevue, Washington 98004

*Date:* January 3, 2005

*Job No.:* 16169-00

Boston

*Attn:* Mr. Fred Benz

*Re:* Non-Hazardous Waste Manifest for PACCAR-Torrance, CA

*We are sending the following items:*

| Date | Copies | Description |
|---|---|---|
| 09/30/04 | 1 | Non-Hazardous Waste Manifest #NH10070406 |
| 09/30/04 | 1 | Non-Hazardous Waste Manifest #NH10070407 |
| | | |

Denver

*These are transmitted:*

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

Edmonds

*Remarks*

Dear Fred,

Happy New Year!

Jersey City

Please find enclosed two non-hazardous waste manifests for the rinseate water and empty drums, which had contained contaminated soil from the BL-06 excavation at the PACCAR property in Torrance, California. As you can tell from the manifests, the rinseate water and drums were disposed of at Chemical Waste Management in Kettleman City, CA.

Long Beach

Should you have any questions, please do not hesitate to contact me at 206-324-9530, extension 4279.

*By:* Evan C. Griffiths, Ph.D., P.E.

Portland

*Title:* Senior Staff Engineer

*Copies to:*

F:\Docs\Jobs\1616900\LOT_010305

Seattle

*1910 Fairview Avenue East*
*Seattle, Washington 98102-3699*
*Fax 206 328 5581*
*Tel 206 324 9530*

CVMI

# NON-HAZARDOUS WASTE MANIFEST

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

3. Generator's Name and Mailing Address
PACCAR INC
~~15706 S NORMANDIE AVE~~ 1206-196th Street
TORRANCE CA 90502

4. Generator's Phone ( ~~206 424 9530~~ 425-462-[illegible]

5. Transporter 1 Company Name: Philip Transportation [illegible]
6. US EPA ID Number: CAD-0-6-1-[illegible]
A. Transporter's Phone: 800 321 1030

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

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
35251 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239

10. US EPA ID Number: CAT000646117
C. Facility's Phone: (559)386-9711

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON REGULATED MATERIAL, ( CAL-EMPTY DRUMS ) | 028 | DM | 00560 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
a. EC5980

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract

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 |
|---|---|---|---|---|
| FRED J BENZ | [signature] | 09 | 30 | 04 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Marco [illegible] | [signature] | 09 | 30 | 04 |

18. Transporter 2 Acknowledgement of Receipt of Materials

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

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

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

GENERATOR'S COPY

CWMI

# NON-HAZARDOUS WASTE MANIFEST

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

**GENERATOR**

3. Generator's Name and Mailing Address
PACCAR INC
~~19706 S NORMANDIE AVE~~
TORRANCE CA 90502

4. Generator's Phone ( ~~206 124 9530~~

5. Transporter 1 Company Name
6. US EPA ID Number
A. Transporter's Phone

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

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT. INC.
35251 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239

10. US EPA ID Number
C. Facility's Phone (559)386-9711

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON REGULATED MATERIAL. ( CAL-EMPTY DRUMS ) | | DM | | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
a. EC5980

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract

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 | Signature | Month | Day | Year

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

COPY

CWMI

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. F.Y.F.M.P.T. | Manifest Document No. | 2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC
~~19706 S NORMANDIE AVE~~ 7236 - [illegible]
TORRANCE CA 90502

4. Generator's Phone ( ~~[illegible]~~ (425) 4421-8881 [illegible]

5. Transporter 1 Company Name: [illegible] Remediation
6. US EPA ID Number: [illegible]
A. Transporter's Phone: 800 321 1030

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

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
35251 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239

10. US EPA ID Number: CAT000646117
C. Facility's Phone: (559)386 9711

| 11. Waste Shipping Name and Description | 12. Containers No | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON HAZARDOUS WASTE, LIQUID, RINSEATE WATER | 004 | DM | 21600 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
a. EC5981

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424-9300 WMI Contract

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 |
|---|---|---|---|---|
| FRED E. PENZ | [signature] | 09 | 30 | 04 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| [illegible] | [illegible] | 09 | 30 | 04 |

18. Transporter 2 Acknowledgement of Receipt of Materials

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

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

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

GENERATOR'S COPY

PACCAR 01832

CWMI

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. E-Y-E-M-P-T
Manifest Document No.
2. Page 1 of 1

3. Generator's Name and Mailing Address
PACCAR INC
~~19766 S NORMANDIE AVE~~
TORRANCE CA 90502
4. Generator's Phone ( ~~310-329-9970~~ ) 1-213-1821-2881.0.9

5. Transporter 1 Company Name
6. US EPA ID Number
A. Transporter's Phone

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

9. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC.
35251 OLD SKYLINE ROAD
KETTLEMAN CITY CA 93239
10. US EPA ID Number
C.A.T.0.0.0.6.4.6.1.1.7
C. Facility's Phone (559)386-9711

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. NON HAZARDOUS WASTE, LIQUID.RINSEATE WATER | 4 | DM | 160.0 | P |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
a. EC5981

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
CHEMTREC Emergency Response Number (800)424 9300 WMI Contract

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] | 09 | 30 | 94 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| [illegible] | [illegible] | 09 | 30 | 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 |
|---|---|---|---|---|
| | | | | |

GENERATOR
TRANSPORTER
FACILITY

COPY

PACCAR 01833

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

# DeMenno/Kerdoon

"Recycling For a Cleaner Environment"

2000 NORTH ALAMEDA STREET ◻ COMPTON ◻ CALIFORNIA 90222 ◻ (310) 537-7100 ◻ FAX: (310) 639-2946

**FACILITY NAME:** DeMENNO/KERDOON

**LOCATION:** 2000 N. ALAMEDA STREET
COMPTON, CA 90222

**FACILITY TYPE:** TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF)

***CONTENTS***


**A. GENERAL INFORMATION**

**B. FACILITY OPERATIONS**
0. General Information
1. Specific Criteria

**C. FACILITY DESIGN**
0. General Criteria
1. Storage/Transfer
2. Recycling/Treatment

**D. REGULATORY COMPLIANCE**
0. General
1. Specific Criteria

**E. SITE GEOLOGY/GROUNDWATER**

**F. MANAGEMENT/PERSONNEL**

**G. LOCATION**

**H. FINANCIAL STRENGTH**

**I. SECURITY**

**J. INSURANCE**

## SECTION A
## GENERAL INFORMATION

**1. Site Information**

| | |
|---|---|
| EPA ID. No. | CAT 080013352 |
| State Registration No. | HFEF38000391 |
| Name of Facility: | DeMenno/Kerdoon |

**2. Site Location/Facility Address:**

| | |
|---|---|
| Street or Route No:. | 2000 N. Alameda Street |
| City: | Compton |
| State: | CA |
| Zip Code: | 90222 |
| Phone No:. | (310) 537-7100 |
| Fax:. | (310) 639-2946 |

**3. Facility Contact(s)**

| | |
|---|---|
| Name: N. Bonnie Booth | Tittle: Manager, Environmental Affairs |
| Name: Catherine DeMenno | Title: Vice President |

**4. Company Ownership/Principal Contact**

| | | |
|---|---|---|
| a. | Parent Company: | World Oil Corp. |
| | Address: | 9302 S. Garfield Avenue |
| | City: | South Gate, |
| | State/Zip Code: | CA 90280-3896 |
| | Contact Name: | Robert Roth |
| | Phone No: | (562) 928-0100 |

**5. General Facility Information**

| | | |
|---|---|---|
| a. | Facility size in acres: | 8 total<br>8 active |
| b. | Facility operating hours: | 24 hours daily Monday-Sunday |
| c. | Site climate: | Annual average rainfall – 15 inches per year<br>Winter average – Mid 50's F<br>Summer average – Mid 70's F |



PACCAR 01837

## SECTION B.0
## FACILITY OPERATIONS – GENERAL INFORMATION

1. **Site Activities:**
   ___ Disposal _X_ Treatment _X_ Storage _X_ Generation _X_ Recycle _X_ Transfer

2. **On-site units: (check all that apply)**
   _X_ Storage/Transfer
   _X_ Wastewater Treatment
   _X_ Solvent recovery – Hydrocarbon Solvents
   _X_ Used oil recycling
   _____Landfill
   ____ Incineration
   ____ Thermal Treatment
   __X_ Other (specify) – Antifreeze Recycling

3. **Waste Handled at Facility:**

   **Quantity per year and method of handling indicated below if available. Attached waste list (EXHIBIT #1) includes waste types such as spent acids, spent solvents, spent catalysts, spent caustics, used oils, etc. Included are those incoming waste streams that are only transferred.**

| Waste Code Type | Approximate Quantity/year | Recycle/Disposal/Storage/ Transfer/Treatment |
|---|---|---|
| Used Oil | 42,000,000 gal | Recycle |
| Oily Water | 25,000,000 gal | Recycle |
| Antifreeze/Glycol | 3,600,000 gal | Recycle |
| RCRA Fuels | 2,500,000 gal | Transfer |
| Waste Solids | 2,000,00 gal | Transfer / Disposal / Recycle |

4. **List the wastes that are prohibited:**

   PCB's, RCRA listed waste (U & P) and D003,D004,D012-D017, D020, D031 waste codes

   a. **By Permit limitations: (if specified)**
      PCB's (<5 PPM's), RCRA listed waste
      on-site processing of waste containing >1000ppm organic halogens (for transfer only).

   b. **By facility management policy:**
      PCB essentially none

5. **Method of receipt of all wastes:**

   _X_ Tank Truck ___Railroad _X_ Vacuum Truck _X_ Drums (waste pumped from drums)
   _X__ Roll offs/End Dumps _X_ Tote Tanks

6. **Mode of acceptance of all wastes:**

   Containerized: _X_ Liquids _X_ Pumpable Sludges _X_ Solids
   Bulk: _X_ Liquids _ X_ Pumpable Sludges _X_ Solids



PACCAR 01838

## SECTION B.1
## FACILITY OPERATIONS- SPECIFIC CRITERIA

**1. Waste Analysis Plan:**

**a. *Does facility maintain a waste analysis plan?***

_X_ yes ___no

If yes, does it include: (check all that apply)

_X_ Parameter

_X_ Sampling frequency

_X_ Test methods

_X_ Procedure for retention of results

_X_ Sampling Methods

Date of Plan: updated annually

**b. Quality control system for verifying incoming waste stream characteristics:**

**i. What documents are used for incoming wastes (i.e. RCRA manifest, bill of lading), record keeping, reporting?**

California Uniform Hazardous Waste Manifest, Non-haz Data Forms, Computerized systems for manifests, Generator profiles and Operating record.

**ii. How many incoming waste checked versus manifest or other document?**

Representative core sample (Coliwasa sampler) is pulled form each incoming shipment, fully profiled or finger printed if a current profile has been established within the last 12 months for generators waste stream.

**iii. What percentage of incoming wastes are checked ?**

100% -- Bulk
10-100%---Drums Randomly Selected

**iv. Where are wastes checked?**

On site ELAP Certified Laboratory

**v. Has the facility rejected waste in the past?** _X_Yes ___No

**If yes, for what reasons?**
Unacceptable waste steams (i.e. U or P, listed RCRA waste, PCB Contamination)



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vi. **Does the facility have a weigh scale?** _X_ Yes ___ No

vii. **Are laboratory analysis conducted for incoming loads?** _X_ Yes ___No

- Percentage of waste analyzed? 100% Bulk
- What parameters are analyzed?

**See attached Generators Waste Profile Worksheet (EXHIBIT #2)**

viii. **Who conducts laboratory analyses?**
On-site ELAP Certified Laboratory
Certification attached **(EXHIBIT # 3)**

c. **On-site laboratory capability:**

| Instrument | Manufacturer | Quantity |
|---|---|---|
| GC / MS | Hewlett Packard | 1 |
| Gas Chromatograph | Varian | 2 |
| Gas Chromatograph | Hewlett Packard | 2 |
| Gas Chromatograph | Perkin Elmer | 1 |
| Purge and Trap Assembly | Tekmar | 1 |
| Purge and Trap Assembly | O.I. Analytical | 1 |
| UV / VIS Spectrophotometer | Schimadzu Scientific | 2 |
| Total Halide Analyzer | Dohrmann | 2 |
| Ion Chromatograph | Dionex | 1 |
| Mercury Analyzer | Bacharach | 1 |
| Atomic Absorption Spectrophotometer ( Flame AA ) | Perkin Elmer | 1 |
| AA Spectroscopy ( Graphite Furnace ) | Perkin Elmer | 1 |
| Inductively Coupled Plasma Spectrometer ( ICP ) | Thermo Jarrel Ash | 1 |
| Inductively Coupled Plasma Spectrometer ( ICP ) | Perkin Elmer | 1 |
| Cyanide Analyzer | O.I. Analytical | 1 |
| Pensky Martens Auto Flash Tester | ISL N. America | 1 |
| PH Meter | Orion Research | 2 |
| Bomb Calorimeters | Parr Instrument Company | 1 |

2. **On-site Waste Generation and Management:**

a. **Describe location(s) and management methods(s) for all wastes resulting from operations at this facility:**

| Waste Stream | Hazardous Non-Haz | Management Method | Offsite facility Name and Location |
|---|---|---|---|
| Oily Solids | Non RCRA Hazardous Waste | Recycled | Waste Management/ Butterfield Station, AZ E.C.D.C. Environmental/E. Carbon, UT |
| Oily Trash | Non RCRA | Landfill | Waste Mgmt./Kettleman City E.C.D.C |
| Petroleum Distillate | RCRA | Supplemental Fuel | Clean Harbors / Deer Park, TX |
| RCRA Fuels | RCRA | Supplemental Fuel | Systech Corp/Fredonia, KS |
| Treated Waste Water | Non-Hazardous | Industrial to P.O.T.W. Discharge | L.A County Sanitation |

b. **Describe how the offsite waste management facilities are selected**

Independent Audits

c. **Does facility maintain required documentation and permits?** _X_ Yes ___ No

i. **Are the waste analyzed?** _X_ Yes ___ No

ii. **Are the wastes manifested?** _X_ Yes ___ No
RCRA & Non RCRA Hazardous Waste Solids, RCRA Fuels and petroleum distillate.

iii. **Are the waste shipments recorded and reported?** _X_ Yes ___ No

d. **Does the facility have a waste minimization program?** _X_ Yes ___ No

e. **Waste transferred: List offsite facilities that receive wastes brought to the site for transfer only.**

LaFarge Cement-Systech Env./Fredonia, KS



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3. **Facility Appearance (describe):**

   a. **Houskeeping:**
      Good

   b. **Odors:**
      Complete Vapor Recovery System (tank systems and process equipment)

4. **Operating Records:**

   a. **Does facility maintain written operating records?** _X_ Yes ___ No

      If yes, do they include? (check all that apply)
      _X_ Sources of wastes received
      _X_ Waste descriptions and quantities
      _X_ Methods/dates of disposal/storage/treatment/recycle
      _X_ Waste Inventory
      _X_ Analytical records
      _X_ Report/summary of any incident requiring implementation of Contingency Plan
      _X_ Records and results of inspections

   b. **Are the records available for review during the site inspection?** _X_ Yes ___ No

   c. **Are the records well-organized, usable, and up-to-date?** _X_ Yes ___ No



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## SECTION C.0
## FACILITY DESIGN – GENERAL CRITERIA

1. **Spill/Leak Prevention:**
   **Briefly list the general design measures for spill/leak prevention at the facility.**

   1. Daily tank system and secondary containment system inspection (tanks upgraded to provide seismic protection and leak detection).
   2. Tanks and ancillary equipment certified by independent Registered Engineer.
   3. SPCC Plan includes permanent dikes and impoundments to insure spillage contained onsite. All tanks have impervious secondary containment
   4. Onsite spill control i.e., vacuum truck, backhoe/front loader (for temporary dike construction), and 15 Ton crane.

2. **Containment:**

   **Briefly list the general design containment features at the facility.**
   **(specifics are described in the following subsections).**
   **(e.g.: dikes, berms, drip pans)**

   Impervious Secondary Containment System certified by California Registered Engineer to contain contents of the largest tank and "24 hour run off from 25 year storm"

3. **Storm Run on / Run off:**

   a. **How is run on of storm water to the facility prevented?**

   Facility surrounded by concrete walls and sloped driveways which prohibit run on.

   c. **Is stormwater falling on the site collected?** _X_ Yes ___ No

   If yes, describe collection and treatment system.

   Onsite drainage system consisting of sumps and drains which collects onsite runoff. Stormwater is trapped in sumps and emptied by vacuum truck or collected in facility drains which are directly connected to DeMenno/Kerdoon's waste water treatment plan. Trenches at driveways prevent runoff and route storm water to concrete collection sumps.

   d. **Does the facility have an NPDES stormwater discharge?** ___ Yes _X_ No
   No stormwater runoff



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e. **What is the design basis for runoff control system?**

Designed to eliminate any stormwater runoff from facility.
All stormwater is collected and routed to complete waste water treatment system. Treated waste water discharged to P.O.T.W.

f. **Is the site located within the 100-year floodplain?** ___ Yes _X_ No

4. **Wastewater treatment:**

a. **How does the facility dispose of its wastewater?**

Discharged To P.O.T.W.

b. **If discharged to P.O.T.W. give P.O.T.W. name and site permit #.**

Los Angeles County Sanitation District of Los Angeles. Permit #2703R-3.

c. ***List or briefly describe the treatment chain.***

Oil, water and solids separation, pH neutralization, chemical flocculation and demulsification, dissolved air flotation, steam stripping system for volatile organic removal and granulated activated carbon absorption.

d. **Is the discharge monitored?** _X_ Yes ___ No

## SECTION C.1
## UNIT DESIGN –STORAGE/TRANSFER

1. **Type(s) of Storage Facilities:**

_X_Containers (drums)

_X_ Tanks _X_ Aboveground

___ Underground

2. **How is waste transported to the site?**

Trucks, Vacuum Trucks, tanker trucks & bobtails

_X_ Milk run (i.e. transporter picks up from multiple facilities on same trip)

_X_ Dedicated shipments

3. **Describe all waste handling and transfer operations performed at site**

Wastes arriving at facility are sampled (representative core sample is obtained and analyzed as specified in DeMenno/Kerdoons waste analysis plan for parameters applicable to the specific waste category, and upon meeting acceptance criteria, bulk pumpable waste is pumped from tanker trucks into storage tanks for transfer or recycling / treatment in applicable D/K waste management systems. Waste analysis plan is available for review at the DeMenno/Kerdoon facility.

4. **Briefly describe any safeguard against spills in unloading/loading areas.**

In line check valves to safeguard against tank backflow. Butterfly valves in hose ends for additional precaution. Camlock gaskets inspected and replaced to insure proper and uninterrupted operation.

5. **Tank Storage**

a. **What are the number, size and location (i.e. UST or AST) of each tank?**

**(EXHIBIT #4 – Tank Summary)**

b. **Do tanks have controls to prevent overfilling?** _X_ Yes ___ No

Alarms.

c. **List other spill prevention measures.**

Physical tank gauging (*minimum-twice daily*)
or as needed based on tank receiving status.

d. **Do aboveground tanks have a containment system for spills, Leaks, and precautions:**

_X_ Yes ___ No

If yes, is the containment system:

- Designed to efficiently drain and remove liquids? _X_ Yes ___ No
- Of sufficient capacity to contain 10% of the volume of all tanks or the largest tank, whichever is greater? _X_ Yes ___ No

e. **Is run on into the tank storage area prevented?** _X_ Yes ___ No

f. **How is accumulated precipitation or spills removed from the sump or collection area and where is it disposed of?**

Precipitation is collected by plant vacuum truck and then processed through waste water treatment process systems or other applicable process unit.

7. **Are tank and/or container storage areas inspected for corrosion, leaks, spills?** _X_Yes ___ No

If yes, describe frequency, by whom and method.

Daily by Shift Supervisor and/or Safety Director.

8. **Evidence of leaks in storage areas?** ___ Yes _X_ No

## SECTION C.2
## UNIT DESIGN – RECYCLING/TREATMENT

1. **Types of facility** _X_ Recycling

   _X_ Treatment

   **EPA Generator ID#: CAT 080013352**

2. **Recycling or treatment processes or unit operations used at facility**

   _X_ Physical Separation

   _X_ Chemical Treatment

   _X_ Dewatering (specify method) – Distillation

   _X_ Distillation – Vacuum and atmospheric

   _X_ Flocculation precipitation

   _X_ Other (specify) _ Activated carbon absorption

3. **Briefly describe the design and operation: (or attach flow plan and supplement with description)**

   **(EXHIBIT # 5 – Process Descriptions)**
   **(EXHIBIT # 6 – Condensed Process Flow Diagram)**

4. **What operational parameters/conditions are monitored and how often?**

   Information is contained in Facility Design Section in Part B Operations Plan and is available for review at the DeMenno/Kerdoon Facility.

5. **Describe outlet(s) for each product that is reclaimed or generated/regenerated from wastes treated at the facility (e.g., oil, metals, catalysts).**

| PRODUCTS | MODE OF TRANSPORT |
|---|---|
| Lube oil | Bulk Truck |
| Marine Diesel Oil | Bulk Truck |
| Fuel Oil Cutter | Bulk Truck |
| Asphalt Flux | Bulk Truck |
| Naphtha Solvent | Bulk Truck |
| Ethylene Glycol | Bulk Truck |
| Antifreeze Coolant | Bulk Truck and 55 gallon drum |

6. **Product testing:**

**Are reclaimed/regenerated products tested or analyzed to ensure quality?**

_X_ Yes ___ No

If yes, describe:

Tested as required in Article 13 of the Health & Safety Code, Used Oil Purity Standards in addition to QC specifications applicable to the individual finished product.

## SECTION D.O
## REGULATORY COMPLIANCE – GENERAL

1. **Regulatory Status of waste management (check all that apply):**

_X__ RCRA Part B Permitted Facility  _ _ RCRA Part B Application Submitted

_ _ RCRA Interim Status  ___ RCRA Part B Application in Preparation

___ No Waste Management Permit Required

___ Other than RCRA Permitted Facility

2. **Name of Agency(s) (State/local/federal) responsible for waste management, air emission and water effluents:**

California Environmental Protection Agency
Department of Toxic Substance Control Division
Region 3
1011 N. Grandview Avenue
Glendale, CA 91201
Mr. Alan Plaza
(818) 551-2922

County Sanitation District of Los Angles County
1955 Workman Mill Road
Whittier, CA 90607
Mr. Juan Sanchez
Senior Inspector
(562) 699-7411

South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar
Martha Thomas
Inspector
(909) 396-3526

## SECTION D.1
## REGULATORY AND PERMIT INFORMATION

1. **Permits:**

   a. ***List operating permits and facility identification numbers (Federal and State)***
   **RCRA (TSD and generator), Air, NPDES, POTW, etc.**

| Regulating Authority | Type of Permit | Permit # | |
|---|---|---|---|
| EPA ID # | Generator | CAT080013352 | **(EXHIBIT #7)** |
| CAL EPA | TSD Facility Permit | CAT080013352 | **(EXHIBIT #8)** |
| Los Angeles County Sanitation District | POTW – Centralized Waste Treatment Facility | 2703R-3 | **(EXHIBIT #9A)** |
| South Coast Air Quality Management District | Reclaim | Facility ID# 80037 | **(EXHIBIT #9B)** |
| California Integrated Waste Management Board | Used Oil Recycling Facility | CAT080013352 | **(EXHIBIT #10)** |

2. **Closure Plans:**

   a. **Are there closure and post-closure plans in place?** _X_ Yes ___ No

   Post-closure plan N/A

   b. **Financial Assurance Mechanism**
   **Bank of America Irrevocable Letter of Credit in the amount of $6,716,073.00 (EXHIBIT #11)**

## SECTION E
## SITE/GEOLOGY/GROUNDWATER

1. Site stratigraph. Sketch or briefly describe the geological profile beneath site. Include soil types or permeability of surface formations, and degree of jointing or fracturing, if available. Include depths to interfaces. Also include depth to groundwater and aquifers, if present.

(EXHIBIT # 12 – GEOLOGY OF THE SITE)
(EXHIBIT # 13 – GROUNDWATER STATUS/DTSC SHEET)

## SECTION F
## MANAGEMENT/PERSONNEL

1. **Experience**

   a. **List key Management/Staff: (include environmental staff: onsite/offsite)**

| Name | Title | Experience(Years & Duties) |
|---|---|---|
| Bruce DeMenno | President | 31 yrs – Business Management Executive) |
| Steve Kerdoon | C.E.O. | 30 yrs – Financial Executive) |
| Catherine DeMenno | Vice President | 26 yrs – Environmental & Business Management |
| Nikki Bonnie Booth | Environmental Compliance | 18 yrs – Certified Training |
| Cyrus Pourhassanian | Laboratory Manager | 20 yrs – Laboratory Management |

2. **Resources Availability/Utilization:**

   a. **List Parent Company personnel available part-time at site:**

| Name/Title | Parent Company Location | Types of Services Provided |
|---|---|---|
| Robert Roth | World Oil Corporation | Exec. Financial Management |

   b. **List Consultants used at site:**

| Name/Company | Location | Types of services provided |
|---|---|---|
| The LEU Group | Monarch Beach,CA | Environmental |
| Professional Resource Management | Walnut Creek, CA | Process Engineering and Permitting |



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3. **Training:**

a. **Does facility have a training program?** _X_ Yes ___ No

If yes:

b. **What activities are included?**

_X_ safety _X_ environmental

_X_ operations ___ other (specify)

c. **Do facility personnel take classroom training?** _X_ Yes ___ No

d. **Is on-the-job training conducted?** _X_ Yes ___ No

If yes, is it

_X_ comprehensive?

___ moderate?

___ limited?

e. **Are records kept of the type and amount of all training?** _X_ Yes ___ No

f. **Are drills conducted on emergency procedures?** _X_ Yes ___ No

**Date of last drill:** October 2002

4. **In-house inspections:**

a. **Does facility maintain a written schedule of in-house, onsite inspections?**

_X_ Yes ___ No

b. **Does facility maintain an inspection log?** _X_ Yes ___ No

c. **Are the deficiencies found during the inspections corrected?**

i. **In a timely manner?** _X_ Yes ___ No

ii. **Are the corrections documented?** _X_ Yes ___ No

d. **Are audits conducted periodically by corporate staff of consultants?**

_X_ Yes ___ No

Independent Compliance Audit performed periodically by Clayton Environmental Consultants.

5. **Equipment for Preparedness & Prevention:**

a. **If facility equipped with (check all that apply)**

_X_ Internal communication/alarm system)

_X_ Telephone/2-way radio?

_X_ Fire control equipment?

_X_ Adequate water for fire control?

_X_ Spill and decontamination equipment/materials?

b. **Does facility contain: (check all that apply)**

_X_ Testing and maintenance of equipment?

_X_ Adequate area for emergency movement?

_X_ No smoking signs (for Ignitable & Reactive wastes)?

6. **Contingency Plan**

a. **Does facility maintain a written contingency or emergency procedures plan?**

_X_ Yes ___ No

If yes, type of plan (e.g. SPCC, or other emergency response plan)

SPCC and Contingency Plan

b. **Does contingency plan include: (check all that apply)**

_X_ Emergency procedures?

_X_ Arrangements with local emergency response organizations, including phone #'s, names of reorganization(s), and distances from site?

_X_ Emergency coordinator's name and phone #?

_X_ List of all emergency equipment at facility and description of equipment?

_X_ Evacuation plan for facility personnel?

7. **Record-Keeping:**

a. **Does the facility maintain a file(s) of its records?** _X_ Yes ___ No

b. **Are the records available for the inspection?** _X_ Yes ___ No

c. **Are the files up-to-date?** _X_ Yes ___ No

d. **Are the records well-organized?** _X_ Yes ___ No

8. **Planned Site Improvements/Changes:**

**Are there any equipment improvements underway or planned for the facility?**

_X_ Yes ___ No

**Future projects included in the Part B:**

1. Carbon Regeneration unit.
2. Utilization of existing asphalt plant to recycle petroleum contaminated solids into on-specification asphalt paving product.
3. Rail Spur

## SECTION G
## LOCATION

1. **Neighborhood: Is the facility located in a populated, residential, commercial, rural, or remote location?**

   Commercial Zoned M-1
   Light and heavy manufacturing to North, Commercial to the East &
   West Residential to the Southeast

2. **Surface Waters:**

   **What are the names, locations, and distances of surface waters in the vicinity of the site?**

   Los Angeles River Located 2.4 miles east of the facility

## SECTION H
## FINANCIAL STRENGTH

1. **Basis for financial analysis:**

   Facility itself: DeMenno/Kerdoon

   Parent company(s) (name/describe all; indicate entity for which financial data is available and is used for this evaluation)

   Parent Company: World Oil Corp.

   Independent Auditor's Report

2. **Sources of information (check all that apply)**

   _X_ Dunn & Bradstreet (specify DUNS No.)
   DeMenno/Kerdoon DUNS No-08-837-7486/ World Oil DUNS No-07-293-7436

   _X_ Annual Report

   _X_ SEC form 10-k

   _X_ Audited or verified Accounting report

   _X_ Other (specify)

   **Financial Statements Available Upon Request.**



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## SECTION I
## SECURITY

1. **Barrier**

   a. **Is there an artificial or natural barrier around facility?** (e.g., fences, building, walls) _X_ Yes ___ No

   Describe (height and type of barrier). Nine foot fence

   b. **Extent of facility with barrier (% of property line)?** 100%

   c. **Is barrier well maintained?** _X_ Yes ___ No

2. **Surveillance:**

   a. **Is there a surveillance system?** _X_ Yes ___ No

   b. **Type of System:**

   _X_ Plant personnel during working hours. 24 hours daily

   _X_ Remote access closed circuit monitoring.

3. **Access:**

   a. **Is access to the facility controlled?** _X_ Yes ___ No

   b. **Method**

   _X_ Plant personnel – 24 hours daily _X_ Locked entrance

4. **Signage:**

   **Are signs with the warning "Dangerous- Unauthorized Personnel Keep Out" posted at each entrance and at other locations in order to be seen from and approach?**

   _X_ Yes ___ No

## SECTION J
## INSURANCE

1. **Standard Insurance:**

   **List all insurance coverages below (or attach certificate of insurance)**

   **(EXHIBIT # 15)**

# DeMenno/Kerdoon
# Waste Management
# Facility Evaluation

## Exhibits

1. *Acceptable Materials List*
2. *Generators Waste Profile Worksheet*
3. *Laboratory Certifications*
4. *Tank Summary*
5. *Process Descriptions*
6. *Condensed Process Flow Diagram*
7. *EPA Identification Number*
8. *CAL-EPA, DTSC Hazardous TSD Facility Part B Permit verification & Applicable Part A Application*
9. *Los Angeles County Sanitation District Permit & South Coast Air Quality Management Permit*
10. *Used Oil Recycling Facility Certification*
11. *EPA Determination of Acceptability under the CERCLA Off-Site Rule*
12. *Financial Assurance*
13. *Geology of the Site*
14. *Groundwater Status (DTSC Fact Sheet)*
15. *Insurance Certificates*
16. *Environmental Compliance Status and DTSC Inspection Results*

*See page 12 for List of Regulators*



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Hazardous Wastes accepted at Demenno/Kerdoon (Compton):
—Revised July 6, 2001—

| Hazardous Wastes Accepted by D/K | California Waste Codes | RCRA Waste Codes |
|---|---|---|
| **Used Oil**<br>Includes: Used Lubricating Oil and Industrial Oil, Contaminated Fuels, Gasoline, Jet Fuel, Petroleum Tank Bottoms, Diesel, Crude Oil, Cutting Oil, Hydrocarbon Solvents, Stoddard Solvent, Mineral Spirits, Oil Field Wastes, Refinery Wastes, Oil Spill Clean-up, Waste Ink and Used Heat Transfer Fluids. | 121,122,123,131, 132, 133, 134, 135, 161, 211, 212, 213, 214, 221, 222, 223, 241, 251, 252, 271, 272, 281, 291, 331, 341, 342, 343, 451, 461, 481, 491, 561, 611, 612, 721, 722, 723, 724, 726, 728, 741, 751. | D001, D005, D006, D007, D008, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. |
| **Oily Water**<br>Includes: Contaminated Rain Water, Oil Spill Clean-up, Bilge Water, Clarifier Clean-out, Water Based Cutting oil, Industrial Waste Waters contaminated with Oil and Sludge, Tank Bottoms and Rinseate from Underground Tank Removal and Testing, Tank Cleaning Wastes, and Hazardous Waste Water contaminated with other hydrocarbons. | 121, 122, 123, 131, 132, 133, 134, 135, 141, 161, 211, 212, 213, 214, 221, 222, 223, 241, 251, 252, 271, 272, 281, 291, 331, 341, 342, 343, 411, 421, 441, 451, 461, 491, 521, 561, 571, 611, 612, 721, 722, 723, 724, 726, 728, 741, 751. | D001, D002, D005, D006, D007, D008, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. |
| **Waste Antifreeze and Glycol**<br>Includes: Antifreeze Coolant, Used Glycols, Waste Glycol from Polyester Production, Used Glycol Heat Transfer Fluids, Waste Glycol from Gas Dehydration, and other Automobile and Industrial Antifreeze and Glycol. | 121, 122, 123, 131, 132, 133, 134, 135, 212, 214, 221, 222, 223, 241, 252, 271, 272, 331, 341, 342, 343, 611, 612, 721, 722, 723, 724, 726, 728, 741, 751. | D001, D002, D005, D006, D007, D008, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043. |
| **Waste RCRA Fuels**<br>Includes: Used Solvents, Paint related Materials, Contaminated Used Oil, Oil Spill Clean-up, Metal working Waste, Dry Cleaning Waste, and other Industrial Wastes. | 133, 161, 211, 212, 213, 214, 221, 222, 223, 241, 251, 252, 271, 272, 281, 291, 331, 341, 342, 343, 451, 461, 481, 491, 611, 612, 721, 722, 723, 724, 725, 726, 727, 728, 741, 751. | D001, D005, D006, D007, D008, D018, D019, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043, F001, F002, F003, F004, F005, F037, F038, K048, K049, K050, K051, K052, K086, K087. |
| **Waste Solids**<br>Includes: Dirt from Petroleum spills, Used Oil Dry, and Well Drilling Cuttings. | 221, 222, 223, 241, 521, 611, 612. | D005, D006, D007, D008. |

# DeMenno / Kerdoon

DEMENNO / KERDOON'S LABORATORY IS CERTIFIED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM ( ELAP) CERT. # 2037

## GENERATOR'S WASTE PROFILE WORKSHEET

GENERATOR'S INFORMATION

A. GENERATOR'S NAME _____ B. EPA ID# _____

C. GENERATOR'S ADDRESS _____ D. PHONE ( ) _____

E. CITY, STATE, ZIP _____

F. GENERATOR CONTACT _____ G. TITLE _____

H. CUSTOMER NAME _____ I. PHONE ( ) _____

J. TRANSPORTER NAME _____ K. PHONE ( ) _____

L. TRANSPORTER EPA ID# _____ M. CONTACT _____

A. NAME OF WASTE _____

B. CALIFORNIA HAZARDOUS WASTE CODE NO. _____

C. EPA HAZARDOUS WASTE CODE NO. _____

D. DESCRIBE PROCESS GENERATING WASTE _____

_____

E. DOES THIS WASTE CONTAIN PCB'S? _____ yes _____ no

F. DOES THIS WASTE CONTAIN DIOXIN? (F020-F028) _____ yes _____ no

G. DOES THIS WASTE CONTAIN SULFIDES OR CYANIDES? _____ yes _____ no

H. DOES THIS WASTE CONTAIN PESTICIDES OR HERBICIDES? _____ yes _____ no
(IF YES, IDENTIFY IN ITEMS A OR D ABOVE.)

I. DOES THIS WASTE CONTAIN SOLVENTS? _____ yes _____ no
(IF YES, IDENTIFY IN ITEMS A OR D ABOVE.)

J. DOES THIS WASTE CONTAIN PLATING WASTE? _____ yes _____ no

K. HAS THIS WASTE BEEN MIXED WITH RCRA LISTED WASTE?
(F, K, U OR P EPA WASTE CODES) _____ yes _____ no

L. IF YOU HAVE MSDS FOR COMPONENTS IN THIS WASTE, PLEASE ATTACH ..... MSDS ATTACHED ☐

M. IF YOU HAVE CURRENT ANALYSIS OF THIS WASTE, PLEASE ATTACH ..... CHEMICAL ANALYSIS ATTACHED ☐

GENERATOR'S CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION PROVIDED ON THIS DOCUMENT, IS TRUE AND ACCURATE, AND NO INTENTIONAL MIS-REPRESENTATION HAS BEEN COMMITTED BY ANYONE. I FURTHER CERTIFY THAT ANY SAMPLE(S) PROVIDED WITH THIS WASTE PROFILE WERE TAKEN AND PRESERVED IN ACCORDANCE WITH 40 CFR 261, APPENDIX 1 AND ARE ACCURATE AND REPRESENTATIVE OF MY ACTUAL WASTE STREAM. I HEREBY AGREE TO NOTIFY DEMENNO / KERDOON SHOULD THIS WASTE STREAM CHANGE IN ANY WAY.

AUTHORIZED SIGNATURE _____ DATE ____ / ____ / ____

PRINT NAME AND TITLE _____

FORM NO. 1001 REV 1.0.01

# DeMenno / Kerdoon

## GENERATOR'S WASTE PROFILE WORKSHEET

DEMENNO / KERDOON'S LABORATORY IS CERTIFIED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM (ELAP) CERT. # 2037

PROFILE # 198140

CUSTOMER SAMPLE # _____

☐ TRUCK IN PLANT

☐ ADVANCE SAMPLE PROFILING

FOR D/K INTERNAL USE ONLY

GENERATOR'S NAME _____

TRANSPORTER NAME _____

PHYSICAL CHARACTERISTICS

COLOR _____ ODOR _____ SEDIMENT _____

pH _____ GRAVITY _____ BS & W _____

WATER SOLUBLE ____ yes ____ no REACTIVITY _____

PHYSICAL CHARACTERISTICS ACCEPTABLE - REFER TO LAB FOR COMPLETE PROFILING ☐

PHYSICAL CHARACTERISTICS UNACCEPTABLE - REJECT ☐

TESTED BY _____ DATE _____

CHEMICAL COMPOSITION OF WASTE

| HALIDES | | |
|---|---|---|
| TOTAL HALIDES | _____ | PPM |
| INORGANIC HALIDES | _____ | PPM |
| ORGANIC HALIDES | _____ | PPM |

| PCB'S | _____ | PPM |
|---|---|---|

| INORGANIC | | |
|---|---|---|
| ELEMENT | | |
| CADMIUM | _____ | PPM |
| CHROMIUM | _____ | PPM |
| LEAD | _____ | PPM |
| _____ | _____ | PPM |
| _____ | _____ | PPM |
| _____ | _____ | PPM |

ADDITIONAL ANALYSIS PER REQUEST

_____

_____

_____

_____

_____

_____

_____

_____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

SUBMITTED BY _____ TITLE _____ DATE _____

# *DeMENNO/KERDOON*

***IS PLEASED TO ANNOUNCE***

## *THE CERTIFICATION OF ITS LABORATORY*

***BY THE***
***DEPARTMENT OF HEALTH SERVICES***
***ENVIRONMENTAL LABORATORY ACCREDIATION PROGRAM***

## ELAP CERTIFICATE NO. 2037

***Laboratory Manager: Cyrus Pourhassanian***

**CERTIFIED ANALYTICAL REPORTS**
**ARE AVAILABLE WITHIN 24 HOURS**

***IN ADDITION TO OUR GENERATOR WASTE PROFILE ANALYSIS***
***WE NOW OFFER THE FOLLOWING LABORATORY SERVICES:***

| | | |
|---|---|---|
| *D/K Annual Waste Profile* | | *$150* |
| *Halogenated Volatile Organics* | *EPA 8010* | *$100* |
| *PCB's* | *EPA 8080* | *$ 75* |
| *Flash Point* | *EPA 1010* | *$ 35* |
| *STLC Extraction Procedure* | | *$ 50* |
| *Each Individual Metal (See List Below)* | | *$ 10* |

***Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu,Fe,***
***Pb, Mg, Mn, Mo, Ni, K, Se, Si, Ag, Na, Tl, & V***

***2000 North Alameda Street Compton, California 90222***
***TELEPHONE (310) 537-7100 FAX (310) 639-2946***

EXHIBIT #3

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

# ENVIRONMENTAL LABORATORY CERTIFICATION

Is hereby granted to

## DEMENNO / KERDOON

**2000 NORTH ALAMEDA STREET**

**COMPTON, CA 90222**

Scope of certification is limited to the
"List of Approved Fields of Testing and Analytes"
which accompanies this Certificate.

Continued certification status depends on successful completion of site visit, proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No: **2037**
Expiration Date: **12/31/2004**
Effective Date: **12/01/2002**

Berkeley, California
subject to forfeiture or revocation.

George C. Kulasingam, Ph.D.
Program Chief
Environmental Laboratory Accreditation Program

STATE OF CALIFORNIA—HEALTH AND HUMAN SERVICES AGENCY

GRAY DAVIS, Governor

**DEPARTMENT OF HEALTH SERVICES**
2151 BERKELEY WAY
BERKELEY, CA 94704-1011

(510) 540-2800

August 9, 2001

Certificate No.: 2037

CYRUS POURHASSANIAN
DEMENNO/KERDOON
2000 NORTH ALAMEDA STREET
COMPTON, CA 90222-

Dear CYRUS POURHASSANIAN:

This is to advise you that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the California Environmental Laboratory Improvement Act of 1988 (Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, commencing with Section 100825).

The Fields of Testing for which this laboratory has been certified under this Act are indicated in the enclosed "List of Approved Fields of Testing and Analytes." Certification shall remain in effect until **December 31, 2002** unless revoked. This certificate is subject to an annual fee as prescribed by Section 100860(a), HSC, due on December 31, 2001.
Your application for renewal must be received 90 days before the expiration of your certificate to remain in force according to the California Code of Regulations, Title 22, Division 4, Chapter 19, Section 64801 through 64827.

Please note that your laboratory is required to notify the Environmental Laboratory Accreditation Program of any major changes in the laboratory such as the transfer of ownership, change of laboratory director, change in location, or structural alterations which may affect adversely the quality of analyses (Section 100845(b) and (d), HSC).

Your continued cooperation is essential in order to maintain a reputation for the high quality of the data produced by environmental laboratories certified by the State of California.

If you have any questions, please contact Nelia Beaman at (510) 540-2800.

Sincerely,

George C. Kulasingam

George C. Kulasingam, Ph.D.
Program Chief
Environmental Laboratory Accreditation Program

Enclosure

CALIFORNIA DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
List of Approved Fields of Testing and Analytes

| | | | |
|---|---|---|---|
| DEMENNO/KERDOON | | Certificate No. | 2037 |
| 2000 NORTH ALAMEDA STREET | PHONE No. (310) 537-7100 | Expiration Date | 12/31/2002 |
| COMPTON, CA | COUNTY LOS ANGELES | | |

**09 Physical Properties Testing of Hazardous Waste**

- 09.01 Ignitability by Flashpoint Determination
- 09.02 Corrosivity - pH Determination
- 09.04 Reactivity

**10 Inorganic Chemistry and Toxic Chemical Elements of Hazardous Waste**

- 10.01 Antimony
- 10.02 Arsenic
- 10.03 Barium
- 10.04 Beryllium
- 10.05 Cadmium
- 10.06 Chromium, total
- 10.07 Cobalt
- 10.08 Copper
- 10.09 Lead
- 10.10 Mercury
- 10.11 Molybdenum
- 10.12 Nickel
- 10.13 Selenium
- 10.14 Silver
- 10.15 Thallium
- 10.16 Vanadium
- 10.17 Zinc
- 10.19 Cyanide
- 10.20 Fluoride

**11 Extraction Tests of Hazardous Waste**

- 11.01 California Waste Extraction Test (WET)
- 11.03 Toxicity Characteristic Leaching Procedure (TCLP) All Classes

**12 Organic Chemistry of Hazardous Waste by GC/MS**

- 12.03A EPA Method 8270C Extractable Organics

**13 Organic Chemistry of Hazardous Waste (excluding GC/MS)**

- 13.15 Total Petroleum Hydrocarbons - Gasoline (LUFT)
- 13.16 Total Petroleum Hydrocarbons - Diesel (LUFT)
- 13.17 EPA Method 418.1 TRPH - Screening by IR
- 13.19A EPA Method 8021B Halogenated Volatiles only
- 13.19B EPA Method 8021B Aromatic Volatiles only
- 13.19C EPA Method 8021B BTEX and MTBE only
- 13.24A EPA Method 8080A PCBs only
- 13.24C EPA Method 8082 PCBs only
- 13.25A EPA Method 8080A Organochlorine Pesticides only
- 13.25C EPA Method 8081A Organochlorine Pesticides only
- 13.99 Others

**16 Wastewater Inorganic Chemistry, Nutrients and Demand**

- 16.09 Chemical Oxygen Demand



PACCAR 01866

WASTEWATER RECLAMATION
SOLID WASTE MANAGEMENT

# COUNTY SANITATION DISTRICTS
## OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422

CHARLES W. CARRY
*Chief Engineer and General Manager*

Cyrus Pourhassanain
Laboratory Manager
DeMenno / Kerdoon
2000 North Alameda Street
Compton, CA 90222-2799

October 14, 1997
Lab I. D. No. 20111

Dear Mr. Pourhassanain

The Sanitation Districts' Wastewater Ordinance specifies that all required industrial wastewater analyses be performed by a California State Certified laboratory or by a laboratory approved by the Sanitation Districts.

The Districts recognize your facility's certification as an Environmental Laboratory by the State of California Department of Health Services and will accept the sample results for those analyses which you are certified to perform. The laboratory identification number appearing on this letter MUST be included on all analysis reports submitted to the Districts.

Continued recognition of your certification shall be maintained by periodic satisfactory completion of split sample analyses, compliance with Districts' requirements and an adequate rating on any future visits by Districts' personnel. Please notify the District upon any changes of name, address, telephone number, or supervisory personnel.

If you have any questions regarding this laboratory approval, please contact David B. Whipple of the Sanitation Districts' Industrial Waste Section at extension 2909.

Very truly yours,

Charles W. Carry

Linda M. Shadler
Supervising Civil Engineer
Industrial Waste Section

LMS:DBW:dbw

L:\WHIP\LABS\LETTERS\20111\2.ELP

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Primary Service | Other Service | Diameter Feet | Height, Feet Total | Height, Feet Max Fill | Capacity Gallons | Capacity Barrels | Tank Bottom | Maximum Sp. Gr. | Closure Group | Days to Close |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 501 | Distillate | Naphtha | 15.00 | 17.83 | 16.75 | 22,144 | 527 | Flat | 1.0 | Oil | 32 |
| 502 | Distillate | Naphtha | 15.00 | 17.83 | 16.75 | 22,144 | 527 | Flat | 1.0 | Oil | 32 |
| 503 | Distillate | Naphtha | 15.00 | 17.83 | 16.75 | 22,144 | 527 | Flat | 1.0 | Oil | 1 |
| 504 | Distillate | Naphtha | 15.00 | 17.83 | 16.75 | 22,144 | 527 | Flat | 1.0 | Oil | 3 |
| 505 | Distillate | Naphtha | 15.00 | 17.83 | 16.75 | 22,144 | 527 | Flat | 1.0 | Oil | 4 |
| 506 | MDO | Waste Oil | 12.00 | 25.67 | 24.50 | 20,729 | 494 | Flat | 1.0 | Oil | 41 |
| 507 | MDO | Waste Oil | 12.00 | 25.67 | 24.50 | 20,729 | 494 | Flat | 1.0 | Oil | 44 |
| 520 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 22 |
| 521 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 22 |
| 522 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 24 |
| 523 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 24 |
| 524 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 25 |
| 525 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 25 |
| 526 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 27 |
| 527 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 27 |
| 528 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 28 |
| 529 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 28 |
| 530 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 29 |
| 531 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 29 |
| 532 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 30 |
| 533 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 30 |
| 534 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 31 |
| 535 | Waste Oil | Waste Oil, Oily Water | 12.00 | 27.00 | 25.50 | 21,575 | 514 | Flat | 1.0 | Oil | 31 |
| 1001 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 3 |
| 1002 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 5 |
| 1003 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 7 |
| 1004 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 8 |
| 1005 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 10 |
| 1006 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 12 |
| 1007 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 13 |
| 1008 | Waste Oil | Waste Oil, Oily Water | 14.00 | 37.00 | 36.00 | 41,458 | 987 | Flat | 1.0 | Oil | 15 |
| 1101 | Flux | Waste Oil, MDO | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 1.0 | Oil | 34 |
| 1102 | Flux | Waste Oil, MDO | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 1.0 | Oil | 35 |
| 1103 | Flux | Waste Oil, MDO | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 1.0 | Oil | 36 |
| 1104 | MDO | Waste Oil, Flux | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 2.0 | Oil | 41 |
| 1105 | MDO | Waste Oil, Flux | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 2.0 | Oil | 43 |
| 1106 | MDO | Waste Oil, Flux | 21.00 | 19.58 | 18.58 | 48,152 | 1,146 | Flat | 2.0 | Oil | 44 |
| Total | Waste Oil | | | | | 1,117,950 | 26,618 | | | | |



EXHIBIT # 4

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Current Certification | Inspection Floor | Inspection Shell | Corrosion Rate, Mils/Yr | Corrosion Allowance, Mils Floor | Corrosion Allowance, Mils Shell | Next Inspection Due Internal | Next Inspection Due External | Seismic Protection Reviewed | Seismic Protection Required | Seismic Protection Installed | Leak Detection | Level Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 501 | 01/31/96 | 03/01/92 | 01/04/96 | 5.0 | 90 | 30 | 03/01/02 | 01/03/01 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 502 | 01/30/96 | 03/01/92 | 01/04/96 | 5.0 | 220 | 60 | 03/01/02 | 01/03/01 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 503 | 12/10/97 | 05/14/97 | 01/04/96 | 5.0 | 130 | 40 | 05/14/07 | 01/03/01 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 504 | 01/22/96 | 05/19/99 | 01/04/96 | 5.0 | 230 | 60 | 05/18/09 | 01/03/01 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 505 | 01/22/96 | 03/01/92 | 01/04/96 | 5.0 | 180 | 60 | 03/01/02 | 01/03/01 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 506 | 09/29/98 | 09/25/98 | 06/02/98 | 2.0 | 190 | 50 | 09/24/08 | 06/02/03 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 507 | 08/27/98 | 07/20/98 | 06/02/98 | 2.0 | 190 | 20 | 07/19/08 | 06/01/02 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 520 | 06/16/99 | 06/17/97 | 09/12/97 | 2.0 | 190 | 80 | 06/17/17 | 09/11/12 | Yes | Yes | No | Yes | Gauge/Alarm |
| 521 | 06/16/99 | 06/17/97 | 08/21/98 | 2.0 | 180 | 70 | 06/17/17 | 08/17/12 | Yes | Yes | No | Yes | Gauge/Alarm |
| 522 | 06/16/99 | 06/17/97 | 05/22/97 | 2.0 | 180 | 80 | 06/17/17 | 05/21/12 | Yes | Yes | No | Yes | Gauge/Alarm |
| 523 | 06/16/99 | 06/17/97 | 05/22/97 | 2.0 | 180 | 70 | 06/17/17 | 05/19/11 | Yes | Yes | No | Yes | Gauge/Alarm |
| 524 | 06/16/99 | 06/17/97 | 04/24/98 | 2.0 | 180 | 80 | 06/17/17 | 04/23/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 525 | 06/16/99 | 06/17/97 | 04/24/98 | 2.0 | 250 | 80 | 06/17/17 | 04/23/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 526 | 06/16/99 | 06/17/97 | 06/04/99 | 2.0 | 190 | 70 | 06/17/17 | 05/31/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 527 | 06/16/99 | 06/17/97 | 06/04/99 | 2.0 | 180 | 70 | 06/17/17 | 05/31/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 528 | 06/16/99 | 03/28/97 | 06/04/99 | 2.0 | 170 | 70 | 03/28/17 | 05/31/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 529 | 06/16/99 | 06/17/97 | 06/04/99 | 2.0 | 180 | 70 | 06/17/17 | 05/31/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 530 | 06/16/99 | 03/28/97 | 06/03/99 | 2.0 | 170 | 70 | 03/28/17 | 05/30/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 531 | 06/16/99 | 03/28/97 | 06/03/99 | 2.0 | 170 | 60 | 03/28/17 | 05/31/11 | Yes | Yes | No | Yes | Gauge/Alarm |
| 532 | 06/16/99 | 03/28/97 | 06/03/99 | 2.0 | 170 | 60 | 03/28/17 | 05/31/11 | Yes | Yes | No | Yes | Gauge/Alarm |
| 533 | 06/16/99 | 03/28/97 | 07/20/98 | 2.0 | 170 | 60 | 03/28/17 | 07/17/10 | Yes | Yes | No | Yes | Gauge/Alarm |
| 534 | 06/16/99 | 03/28/97 | 06/04/99 | 2.0 | 170 | 60 | 03/28/17 | 06/01/11 | Yes | Yes | No | Yes | Gauge/Alarm |
| 535 | 06/16/99 | 06/17/97 | 07/20/98 | 2.0 | 180 | 80 | 06/17/17 | 07/19/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 1001 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 220 | 150 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1002 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 190 | 150 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1003 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 210 | 160 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1004 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 200 | 150 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1005 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 190 | 140 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1006 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 190 | 140 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1007 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 190 | 130 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1008 | 05/15/96 | 05/08/96 | 05/08/96 | 2.0 | 190 | 140 | 05/08/16 | 05/08/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1101 | 05/08/00 | 04/25/00 | 04/25/00 | 2.0 | 190 | 40 | 04/25/20 | 04/23/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1102 | 08/01/00 | 05/05/99 | 05/05/99 | 2.0 | 90 | 60 | 04/30/17 | 05/02/09 | Yes | Yes | No | No | Gauge/Alarm |
| 1103 | 06/16/99 | 12/28/90 | 12/28/90 | 2.0 | 200 | 60 | 12/28/10 | 12/25/02 | Yes | Yes | No | No | Gauge/Alarm |
| 1104 | 08/27/98 | 04/24/98 | 06/02/98 | 2.0 | 130 | 40 | 04/24/18 | 05/31/06 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1105 | 08/27/98 | 09/21/98 | 09/21/98 | 2.0 | 270 | 20 | 09/21/18 | 09/20/02 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 1106 | 08/27/98 | 08/21/98 | 06/02/98 | 2.0 | 110 | 30 | 08/21/18 | 05/31/04 | Yes | Yes | Yes | Yes | Gauge/Alarm |



PACCAR 01869

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Primary Service | Other Service | Diameter Feet | Height, Feet | | Capacity | | Tank Bottom | Maximum Sp. Gr. | Closure Group | Days to Close |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Max Fill | Gallons | Barrels | | | | |
| 151 | Oily Water | Waste Oil | 8.00 | 19.00 | 18.00 | 6,769 | 161 | Flat | 1.25 | Water | 4 |
| 181 | Oily Water | Waste Oil | 8.25 | 22.00 | 21.00 | 8,398 | 200 | Dish | 1.25 | Water | 5 |
| 624 | Oily Water | Waste Oil | 18.00 | 24.00 | 22.50 | 42,833 | 1,020 | Flat | 1.0 | Water | 19 |
| 661 | Oily Water | Waste Oil | 16.00 | 19.92 | 19.00 | 28,579 | 680 | Flat | 1.0 | Water | 2 |
| 1009 | Oily Water | Waste Oil | 22.00 | 16.33 | 15.00 | 42,657 | 1,016 | Flat | 1.25 | Water | 32 |
| 1107 | Oily Water | Waste Oil | 20.00 | 19.75 | 18.50 | 43,479 | 1,035 | Flat | 1.25 | Water | 33 |
| 1108 | Oily Water | Waste Oil | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.0 | Water | 17 |
| 1109 | Oily Water | Waste Oil | 20.00 | 19.67 | 18.50 | 43,479 | 1,035 | Flat | 1.25 | Water | 34 |
| 2001 | Oily Water | Waste Oil | 30.50 | 20.00 | 19.00 | 103,849 | 2,473 | Flat | 1.0 | Water | 21 |
| 2002 | Oily Water | Waste Oil | 30.50 | 20.00 | 19.00 | 103,849 | 2,473 | Flat | 1.0 | Water | 21 |
| 2003 | Oily Water | Waste Oil | 30.50 | 20.00 | 19.00 | 103,849 | 2,473 | Flat | 1.0 | Water | 20 |
| 8001 | Oily Water | Waste Oil | 51.67 | 22.42 | 21.40 | 325,186 | 7,743 | Flat | 1.0 | Water | 28 |
| 9001 | Oily Water | Waste Oil | 48.00 | 28.00 | 27.00 | 356,477 | 8,488 | Flat | 1.0 | Water | 7 |
| 9002 | Oily Water | Waste Oil | 48.00 | 28.00 | 27.00 | 363,533 | 8,656 | Flat | 1.0 | Water | 13 |
| 55001 | Oily Water | Waste Oil | 93.00 | 48.00 | 41.00 | 2,083,526 | 49,608 | Flat | 1.0 | Water | 32 |
| V1 | Oily Water | Waste Oil | 20.00 | 20.50 | 19.50 | 53,663 | 1,278 | Cone | 1.0 | Water | 53 |
| V2 | Oily Water | Waste Oil | 15.50 | 18.00 | 17.00 | 29,826 | 710 | Cone | 1.0 | Water | 53 |
| V701 | Oily Water | Waste Oil | 15.17 | 15.50 | 15.00 | 23,877 | 569 | Cone | 1.25 | Water | 46 |
| V702 | Oily Water | Waste Oil | 15.17 | 15.50 | 15.00 | 23,877 | 569 | Cone | 1.25 | Water | 46 |
| Total | Oily Water | | | | | 3,832,360 | 91,247 | | | | |



PACCAR 01870

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Current Certification | Inspection | | Corrosion Rate, Mils/Yr | Corrosion Allowance, Mils | | Next Inspection Due | | Seismic Protection | | | Leak Dectection | Level Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Floor | Shell | | Floor | Shell | Internal | External | Reviewed | Required | Installed | | |
| 151 | 11/12/96 | 03/12/96 | 03/12/96 | 5.0 | 210 | 60 | 03/12/16 | 03/11/02 | Yes | Yes | Yes | Yes | None |
| 181 | 11/12/96 | 03/12/96 | 03/12/96 | 5.0 | 130 | 140 | 03/09/09 | 03/09/10 | Yes | Yes | Yes | Yes | Alarm |
| 624 | 12/04/95 | 11/07/95 | 12/17/91 | 5.0 | 260 | 80 | 11/07/15 | 12/15/99 | Yes | Yes | Yes | Yes | Alarm |
| 661 | 12/04/95 | 11/06/98 | 05/23/97 | 5.0 | 290 | 60 | 11/06/18 | 05/22/03 | Yes | Yes | Yes | Yes | Alarm |
| 1009 | 10/05/97 | 09/12/97 | 09/12/97 | 5.0 | 260 | 130 | 09/12/17 | 09/09/10 | Yes | Yes | Yes | Yes | Alarm |
| 1107 | 08/02/00 | 09/13/99 | 08/02/00 | 5.0 | 140 | 30 | 09/09/13 | 08/02/03 | Yes | Yes | Yes | Yes | Alarm |
| 1108 | 03/25/96 | 03/12/96 | 08/02/00 | 5.0 | 250 | 10 | 03/12/16 | 08/02/01 | Yes | Yes | Yes | Yes | Alarm |
| 1109 | 12/29/95 | 12/06/95 | 05/19/97 | 5.0 | 280 | 60 | 12/06/15 | 05/18/03 | Yes | Yes | Yes | Yes | Alarm |
| 2001 | 11/04/96 | 10/28/96 | 10/28/96 | 5.0 | 180 | 130 | 10/24/14 | 10/25/09 | Yes | No | OK | Yes | Alarm |
| 2002 | 01/20/97 | 02/08/99 | 02/08/99 | 5.0 | 170 | 140 | 02/04/16 | 02/04/13 | Yes | No | OK | Yes | Alarm |
| 2003 | 11/04/96 | 07/31/96 | 07/31/96 | 5.0 | 180 | 150 | 07/27/14 | 07/28/11 | Yes | No | OK | Yes | Gauge |
| 8001 | 11/17/95 | 01/16/98 | 01/22/98 | 5.0 | 250 | 80 | 01/16/18 | 01/20/06 | Yes | Yes | Yes | Yes | Alarm |
| 9001 | 01/30/96 | 01/16/96 | 06/07/99 | 5.0 | 260 | 30 | 01/16/16 | 06/06/02 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 9002 | 09/11/98 | 11/04/97 | 11/04/97 | 5.0 | 170 | 80 | 10/31/14 | 11/02/05 | Yes | Yes | Yes | Yes | Alarm |
| 55001 | 8/ /00 | 04/25/00 | 08/01/00 | 5.0 | 190 | 20 | 04/21/19 | 08/01/02 | Yes | No | OK | Yes | Gauge/Alarm |
| V1 | 12/10/97 | 12/13/95 | 12/13/95 | 5.0 | 110 | 130 | 12/10/06 | 12/09/08 | Yes | Yes | Yes | Yes | Alarm |
| V2 | 03/10/00 | 06/19/97 | 03/10/00 | 5.0 | 70 | 90 | 06/17/04 | 03/08/09 | Yes | Yes | Yes | Yes | Alarm |
| V701 | 01/08/97 | 12/13/95 | 12/13/95 | 5.0 | 190 | 80 | 12/08/14 | 12/11/03 | Yes | Yes | Yes | Yes | Alarm |
| V702 | 06/21/99 | FUTURE | FUTURE | 5.0 | | | | | Yes | Yes | No | Yes | Alarm |



PACCAR 01871

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Primary Service | Other Service | Diameter Feet | Height, Feet Total | Height, Feet Max Fill | Capacity Gallons | Capacity Barrels | Tank Bottom | Maximum Sp. Gr. | Closure Group | Days to Close |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 22 |
| A2 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 24 |
| A3 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 25 |
| A4 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 20 |
| A5 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 11 |
| A6 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 12 |
| A7 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 14 |
| A8 | Used Glycol | Waste Oil, Oily Water | 20.00 | 19.92 | 19.00 | 44,654 | 1,063 | Flat | 1.25 | Glycol | 6 |
| K5 | Used Glycol | Products | 10.00 | 16.00 | 15.50 | 9,401 | 224 | Cone | 1.25 | Glycol | 15 |
| K7 | Used Glycol | Products | 7.00 | 13.00 | 12.00 | 3,743 | 89 | Cone | 1.25 | Glycol | 15 |
| K8 | Used Glycol | Products | 10.00 | 16.00 | 15.50 | 9,401 | 224 | Cone | 1.25 | Glycol | 19 |
| K9 | Used Glycol | Products | 10.00 | 16.00 | 15.50 | 9,401 | 224 | Cone | 1.25 | Glycol | 19 |
| S7 | Used Glycol | Products | 10.00 | 12.00 | 11.50 | 6,757 | 161 | Flat | 1.25 | Glycol | 14 |
| S10 | Used Glycol | Products | 10.00 | 12.00 | 11.50 | 6,757 | 161 | Dish | 1.25 | Glycol | 18 |
| S11 | Used Glycol | Products | 11.00 | 22.00 | 21.50 | 17,181 | 409 | Cone | 1.25 | Glycol | 16 |
| S12 | Used Glycol | Products | 11.00 | 22.00 | 21.50 | 17,181 | 409 | Cone | 1.25 | Glycol | 17 |
| S13 | Used Glycol | Products | 12.00 | 20.25 | 19.25 | 18,543 | 442 | Cone | 1.25 | Glycol | 18 |
| S14 | Used Glycol | Products | 11.00 | 20.75 | 20.00 | 14,219 | 339 | Dish | 1.25 | Glycol | 15 |
| Total | Used Glycol | | | | | 469,818 | 11,186 | | | | |
| 515 | RCRA Fuels | None | 16.00 | 14.50 | 13.50 | 20,557 | 489 | Cone | 1.0 | RCRA | 16 |
| 516 | RCRA Fuels | None | 16.00 | 14.50 | 13.50 | 20,557 | 489 | Cone | 1.0 | RCRA | 17 |
| Total | RCRA Fuels | | | | | 41,113 | 979 | | | | |

**D/K Waste Inventory & Products Produced**

| | |
|---|---|
| Total Waste Oil | 1,117,950 |
| Total Oily Water | 3,832,360 |
| Total Used Glycol | 469,818 |
| Total RCRA Fuels | 41,113 |
| Total | 5,461,241 |



PACCAR 01872

# Table XI-1 D/K Hazardous Waste Storage Tanks - Part B

| Tank Name | Current Certification | Inspection Floor | Inspection Shell | Corrosion Rate, Mils/Yr | Corrosion Allowance, Mils Floor | Corrosion Allowance, Mils Shell | Next Inspection Due Internal | Next Inspection Due External | Seismic Protection Reviewed | Seismic Protection Required | Seismic Protection Installed | Leak Dectection | Level Measurement |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | 01/23/97 | 09/24/96 | 12/31/96 | 2.0 | 320 | 170 | 09/24/16 | 12/31/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A2 | 01/25/95 | 09/23/99 | 09/23/99 | 2.0 | 120 | 60 | 09/23/19 | 09/20/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A3 | 10/08/96 | 09/24/96 | 09/24/96 | 2.0 | 200 | 70 | 09/24/16 | 09/21/10 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A4 | 05/22/96 | 04/26/96 | 04/26/96 | 2.0 | 180 | 60 | 04/26/16 | 04/23/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A5 | 02/05/96 | 01/17/96 | 04/26/96 | 2.0 | 260 | 60 | 01/17/16 | 04/23/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A6 | 02/29/96 | 02/12/96 | 04/26/96 | 2.0 | 280 | 60 | 02/12/16 | 04/23/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A7 | 02/05/96 | 11/07/95 | 04/01/92 | 2.0 | 120 | 70 | 11/07/15 | 03/29/06 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| A8 | 01/08/97 | 10/28/96 | 10/28/96 | 2.0 | 250 | 80 | 10/28/16 | 10/28/11 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| K5 | 02/29/96 | 04/26/96 | 04/26/96 | 1.0 | 140 | 80 | 04/26/16 | 04/26/11 | Yes | Yes | Yes | Yes | Alarm |
| K7 | 05/23/96 | 02/12/96 | 02/12/96 | 1.0 | 80 | 200 | 02/08/12 | 02/11/11 | Yes | Yes | Yes | Yes | Alarm |
| K8 | 05/23/96 | 06/24/99 | 06/24/99 | 1.0 | 100 | 70 | 06/19/19 | 06/20/13 | Yes | Yes | Yes | Yes | Alarm |
| K9 | 05/23/96 | 06/24/99 | 06/24/99 | 1.0 | 140 | 70 | 06/24/19 | 06/20/13 | Yes | Yes | Yes | Yes | Alarm |
| S7 | 02/05/96 | 11/02/94 | 11/02/94 | 1.0 | 130 | 70 | 11/02/14 | 10/29/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| S10 | 05/23/96 | 09/13/94 | 09/13/94 | 1.0 | 80 | 100 | 09/09/10 | 09/12/09 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| S11 | 05/22/96 | 05/22/96 | 09/30/94 | 1.0 | 140 | 70 | 05/22/16 | 09/26/08 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| S12 | 05/22/96 | 05/22/96 | 09/30/94 | 1.0 | 200 | 120 | 05/22/16 | 09/29/09 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| S13 | 05/22/96 | 05/22/96 | 09/16/94 | 1.0 | 180 | 50 | 05/22/16 | 09/13/04 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| S14 | 12/15/95 | 09/10/94 | 09/10/94 | 1.0 | 300 | 170 | 09/10/14 | 09/09/09 | Yes | Yes | Yes | Yes | Gauge/Alarm |
| 515 | 07/27/00 | 04/22/98 | 04/22/98 | 5.0 | 330 | 150 | 04/22/18 | 04/18/13 | Yes | Yes | No | Yes | Gauge/Alarm |
| 516 | 07/27/00 | 04/22/98 | 04/22/98 | 5.0 | 310 | 150 | 04/22/18 | 04/18/13 | Yes | Yes | No | Yes | Gauge/Alarm |



PACCAR 01873

EXHIBIT # 5

**Why should I choose DeMenno/Kerdoon for disposal of my oily-water and used oil?**

The answer is that DeMenno/Kerdoon is the only company that has the technology and the facilities to process 100% of the oily-water solution you wish to legally dispose of. If you are a hauler or generator you have to be concerned about both phases of the oily-water solution. With our technology and facilities we are the only alternative for generators and haulers that want complete insulation from any liability regarding their chosen disposal site.

In simple terms oily-water is separated into an oil phase and water phase; we will in simple terms discuss what happens to your oily-water solution:

## THE WATER PHASE

DeMenno/Kerdoon's technology brings the water phase to below 75 parts per million of oil and grease. The systems included in the water-treating phase include the following:

1. Oil, Water and Solids separation
2. pH Neutralization
3. Chemical Floculation and Demulsification
4. Dissolved Air Floatation
5. Volatile Organic Removal
6. Granulated Activated Carbon Adsorption

The result of using DeMenno/Kerdoon's systems is that there is never a contingent liability because our facility has met all regulatory requirements regarding the water-phase. The agency responsible for monitoring this phase is the Los Angeles County Sanitation District with which DeMenno/Kerdoon is fully permitted.

## THE OIL PHASE

Just as important as the water phase is the oil phase. It is here that DeMenno/Kerdoon again has the highest degree of technology in converting the used oil into finished petroleum products. These include: Naphtha, Lube Oil, Marine Diesel, Flux and Asphalt.

Our systems and facilities for the processing of this oil phase include the following:

1. Chemical Dehydration
2. Atmospheric Distillation
3. Vacuum Distillation
4. Distillate Treating
5. Lube Distillate Treating
6. Asphalt Manufacturing

Other so-called "recyclers" or treatment facilities do not convert the oil phase into products but instead sell or dispose of the oil-phase at other facilities for further processing or disposal. **THIS HAS THE POTENTIAL OF CAUSING YOU LIABILITY.**

Since other treatment facilities do not process their oil phase there is a potential of the oil being disposed of illegally. Under the California used oil management standards, if the finished petroleum products do not meet certain product specifications then the sale of the oil would be illegal. **THE MAJOR DIFFERENCE BETWEEN DeMENNO/KERDOON AND OTHER PROCESSING FACILITIES IS THAT DeMENNO/KERDOON IS THE ONLY FACILITY THAT CAN ELIMINATE YOUR LIABILITY FOR BOTH THE OIL PHASE AND WATER PHASE.**

## ANTIFREEZE/GLYCOL RECYCLING

DeMenno/Kerdoon recycles antifreeze/glycol into new automotive antifreeze and ethylene glycol. This recycled product meets the more stringent specifications required of industrial grade ethylene glycol as well as automotive grade antifreeze. This state of the art recycling system includes the following:

1. Molecular Filtering
2. Atmospheric Distillation
3. Vacuum Distillation
4. Chemical Treatment
5. Carbon Adsorption

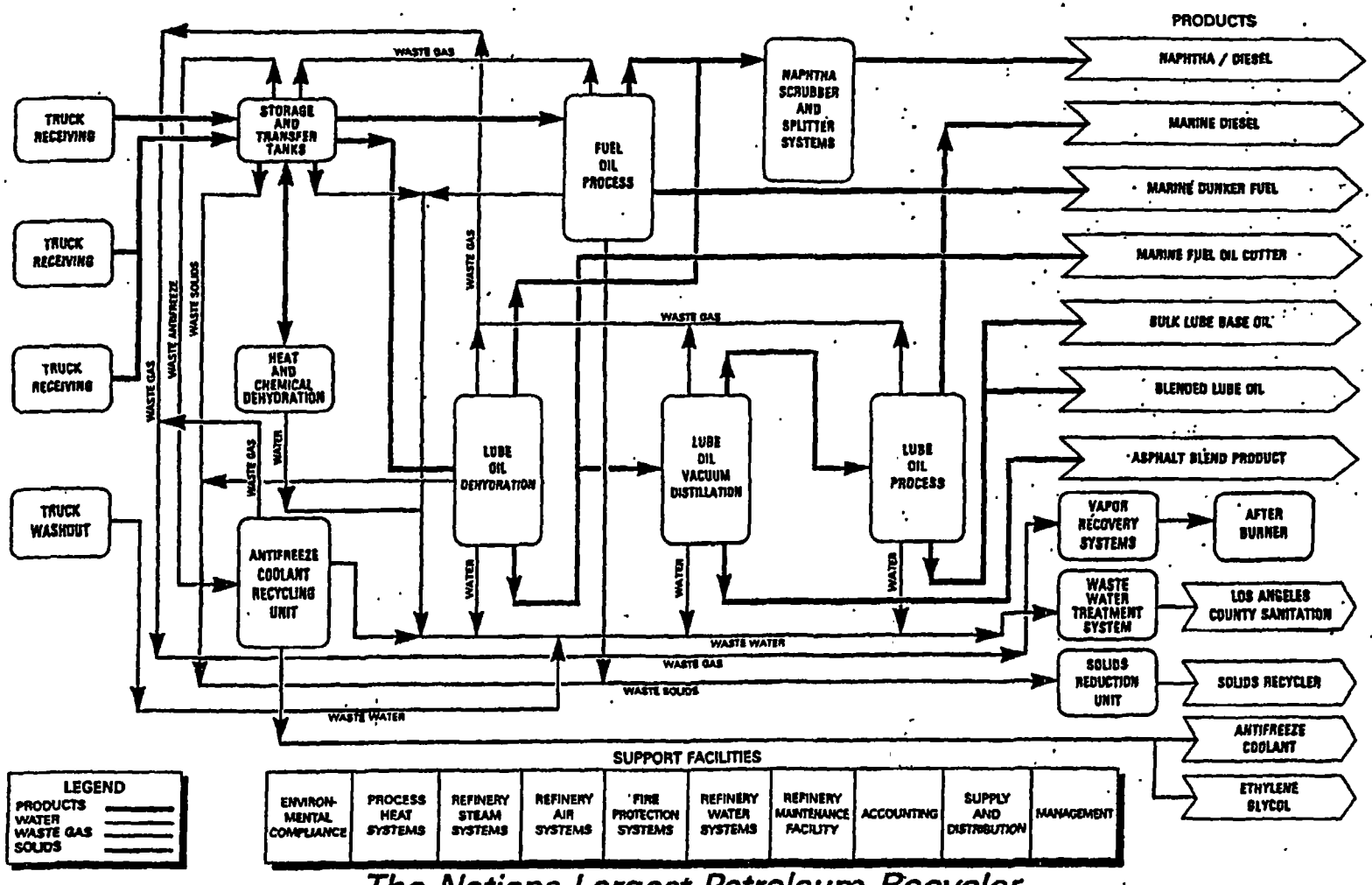
## SUMMARY

As a generator, transporter or environmental consultant, you and your company need to be relieved of all contingent liabilities for oily-water disposal. It's obvious that the only way to guarantee full protection for you and your company is to dispose of your oily-water where the water-phase and oil-phase are processed to the letter of the law. DeMenno/Kerdoon can offer you this assurance and protection.

**Issued Permits**

CAL EPA-Dept. of toxic Substances Control
Environmental Protection Agency
California Waste Management Board
Los Angeles County Sanitation District
South Coast Air Quality Management District

# DEMENNO / KERDOON CONDENSED PROCESS FLOW DIAGRAM




*The Nations Largest Petroleum Recycler*

EXHIBIT #6

PACCAR 01875

EXHIBIT # 7

EPA

ACKNOWLEDGEMENT OF NOTIFICATION
OF HAZARDOUS WASTE ACTIVITY
*(VERIFICATION)*

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act *(RCRA)*. Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER → CAT080013352

DEMENNO KERDOON
2000 NORTH ALAMEDA
COMPTON CA 90222

INSTALLATION ADDRESS → 2000 NORTH ALAMEDA
COMPTON CA 90222

EPA Form 6700-12B (4-80) 01/22/81

PACCAR 01876

California Environmental Protection Agency
Department of Toxic Substances Control

# HAZARDOUS WASTE FACILITY PERMIT

Permit Number: 01-SC-02

Facility Name:
DeMenno/Kerdoon
2000 North Alameda Street
Compton, California 90222

Owner Name:
DeMenno/Kerdoon
2000 North Alameda Street
Compton, California 90222

Operator Name:
DeMenno/Kerdoon
2000 North Alameda Street
Compton, California 90222

Facility EPA ID Number: CAT080013352

Effective Date of Permit: July 6, 2001

Expiration Date of Permit: July 6, 2011

Pursuant to Section 25200 of the California Health and Safety Code, this RCRA-equivalent Hazardous Waste Facility Permit is hereby issued to DeMenno/Kerdoon. The Issuance of this Permit is subject to the conditions set forth in Attachment A and the Pa "A" and "B" Applications (Operation Plan) dated August 1, 2000. Attachment A consists of 81 pages.

Chief
Southern California Permitting Branch
Department of Toxic Substances Control

Date: 5/31/01

# EPA
## Hazardous Waste Permit Application Part A

Date Received
Month Day Year

I. Installation's EPA ID Number

[ ] A. First Part A Submission [X] B. Part A Amendment #

C. Installation's EPA ID Number: CAT080013352

D. Secondary ID Number (if applicable):

II. Name of Facility: DEMENNO KERDOON

III. Facility Location

A. Street: 2000 NORTH ALEMEDA STREET

Street (continued):

City or Town: COMPTON State: CA Zip Code: 90222-

County: County Name: LOS ANGELES

B. Land Type: P

C. Geographic Location: Latitude: 33 55 04N Longitude: 118 14 56W

D. Facility Existence Date: Month Day Year: 1 9 3

IV. Facility Mailing Address

Street or P.O. Box: 2000 NORTH ALEMEDA STREET

City or Town: COMPTON State: CA Zip Code: 90222-

V. Facility Contact

Name (last): DEMENNO (First): BRUCE

Job Title: PRESIDENT Phone Number: 310-537-7100

VI. Facility Contact Address

Loc: X Mail: [ ] Other: [ ]

City or Town: State: Zip Code: -

| EPA ID Number | Secondary ID Number |
|---|---|
| CAT080013352 | |

**VII. Operator Information**

| Name of Operator |
|---|
| DEMENNO KERDOON |

| Street or P. O. Box | | | |
|---|---|---|---|
| 2000 NORTH ALEMEDA STREET | | | |
| City or Town | State | Zip Code | |
| COMPTON | CA | 90222 - | |

| Phone Number | B. Operator Type | C. Change of Owner | | Date Changed |
|---|---|---|---|---|
| 310-537-7100 | P | Yes | No X | |

**VIII. Facility Owner**

| A. Name of Facility's Legal Owner |
|---|
| DEMENNO KERDOON |

| Street or P. O. Box | | | |
|---|---|---|---|
| 2000 NORTH ALEMEDA STREET | | | |
| City or Town | State | Zip Code | |
| COMPTON | CA | 90222 - | |

| Phone Number | B. Owner Type | C. Change of Operator | | Date Changed |
|---|---|---|---|---|
| 310-537-7100 | P | Yes | No X | |

**IX. SIC Codes**

| Primary | Secondary |
|---|---|
| 2992 Rerefining of Used Oils | |
| **Secondary** | **Secondary** |
| | |

**X. Other Environmental Permits**

| A. Permit Type | B. Permit Number | C. Description |
|---|---|---|
| E | 2703 R-2 | LACSD Discharge to POTW |
| E | 800037 | SCAQMD Air Permit - Reclaim |

EPA ID Number: C A T 0 8 0 0 1 3 3 5 2

Secondary ID Number:

## XI. Nature of Business

enno/Kerdoon is a recycler of used oils, waste oils, oily water, oily waste, used antifreeze and related materials. D/K is permitted under LACSD as a Centralized Pretreatment Facility for its discharge to the POTW. D/K is permitted by SCAQMD under Reclaim for its air emissions. No disposal occurs at the D/K facility.

## XII. Process Codes and Design Capacities

A. PROCESS CODE - *Enter the code from the list of process codes below that best describes each process to be used at the facility. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), describe the process (including its design capacity) in the space provided in Item XIII.*

B. PROCESS DESIGN CAPACITY - *For each code entered in column A, enter the capacity of the process.*

1. AMOUNT - *Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.*
2. UNIT OF MEASURE - *For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.*

C. PROCESS TOTAL NUMBER OF UNITS - *Enter the total number of units used with the corresponding process code.*

| PROCESS CODE | PROCESS | APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY |
|---|---|---|
| | **Disposal:** | |
| D79 | Underground Injection | Gallons; Liters; Gallons Per Day; or Liters Per Day |
| D80 | Landfill | Acre-feet or Hectare-meter |
| D81 | Land Treatment | Acres or Hectares |
| D82 | Ocean Disposal | Gallons Per Day r Liters Per Day |
| D83 | Surface Impoundment | Gallons or Liters |
| D99 | Other Disposal | Any Unit of Measure Listed Below. |
| | **Storage:** | |
| | Container (Barrel, Drum, Etc.) | Gallons or Liters |
| S02 | Tank | Gallons or Liters |
| S03 | Waste Pile | Cubic Yards or Cubic Meters |
| S04 | Surface Impoundment | Gallons or Liters |
| S05 | Drip Pad | Gallons or Liters |
| S06 | Containment Building-Storage | Cubic Yards or Cubic Meters |
| S99 | Other Storage | Any Unit of Measure Listed Below |
| | **Treatment:** | |
| T01 | Tank | Gallons Per Day or Liters Per Day |
| T02 | Surface Impoundment | Gallons Per Day or Liters Per Day |
| T03 | Incinerator | Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour |
| T04 | Other Treatment | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |
| T80 | Boiler | Gallons or Liters |
| T81 | Cement Kiln | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |
| T82 | Lime Kiln | |
| T83 | Aggregate Kiln | |
| T84 | Phosphate Kiln | |
| T85 | Coke Oven | |
| T86 | Blast Furnace | |
| T87 | Smelting, Melting, Or Refining Furnace | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |
| T88 | Titanium Dioxide Chloride Process Oxidation Reactor | |
| T89 | Methane Reforming Furnace | |
| T90 | Pulping Liquor Recovery Furnace | |
| T91 | Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid | |
| T92 | Halogen Acid Furnaces | |
| T93 | Other Industrial Furnaces Listed In 40 CFR §260.10 | |
| T94 | Containment Building-Treatment | Cubic Yards or Cubic Meters |
| | **Miscellaneous (Subpart X):** | |
| X01 | Open Burning/Open Detonation | Any Unit of Measure Listed Below |
| X02 | Mechanical Processing | Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; or Kilograms Per Hour |
| X03 | Thermal Unit | Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour |
| X04 | Geologic Repository | Cubic Yards or Cubic Meters |
| X99 | Other Subpart X | Any Unit of Measure Listed Below |

| UNIT OF MEASURE | UNIT OF MEASURE CODE |
|---|---|
| Gallons | G |
| Gallons Per Hour | E |
| Gallons Per Day | U |
| Liters | L |
| Liters Per Hour | H |
| Liters Per Day | V |
| Short Tons Per Hour | D |
| Metric Tons Per Hour | W |
| Short Tons Per Day | N |
| Metric Tons Per Day | S |
| Pounds Per Hour | J |
| Kilograms Per Hour | R |
| Cubic Yards | Y |
| Cubic Meters | C |
| Acres | B |
| Acre-feet | A |
| Hectares | Q |
| Hectare-meter | F |
| Btu's Per Hour | I |



PACCAR 01880

| EPA ID Number | Secondary ID Number |
|---|---|
| CAT080013352 | |

## XII. Process Codes and Design Capacities

Example for Completing Item XII

| Line Number | A. Process Code | B. Process Design Capacity 1. Amount (specify) | 2. Units of Measure | C. Process Total No. of Units | For Official Use Only |
|---|---|---|---|---|---|
| X 1 | S 0 2 | 533,788 | G | 001 | |
| 1 | T 0 1 | 374,400 | U | 002 | |
| 2 | T 0 1 | 242,400 | U | 001 | |
| 3 | T 0 1 | 28,800 | U | 001 | |
| 4 | S 0 2 | 5,420,128 | G | 074 | |
| 5 | S 0 2 | 41,113 | G | 002 | |
| 6 | S 0 1 | 27,500 | G | 001 | |
| 7 | S 0 1 | 200 | Y | 001 | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |

Note: If you need to list more than 13 process codes, attach additional sheets.

## XIII. Other Processes

| Line Number | A. Process Code | B. Process Design Capacity 1. Amount (specify) | 2. Units of Measure | C. Process Total No. of Units | D. Description of Process |
|---|---|---|---|---|---|
| X 1 | T 0 4 | | | | In-situ Vitrification |
| 1 | T 0 4 | 374,400 | U | 002 | Oil recycling units 1 & 2 including phase separation, distillation, chemical treatment, & carbon treating |
| 2 | T 0 4 | 242,400 | U | 001 | WTP including centrifuge, phase separation, chemical treating, steam stripping, DAF, & carbon treating |
| 3 | T 0 4 | 28,800 | U | 001 | Antifreeze recycling including phase separation, distillation, chemical treatment, ultrafilter, & carbon treating |
| 4 | | | | | |

RAD Number

C A T 0 8 0 0 1 3 3 5 2

Secondary ID Number

## IV. Description of Hazardous Waste

A. EPA HAZARDOUS WASTE NUMBER - *Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.*

B. ESTIMATED ANNUAL QUANTITY - *For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.*

C. UNIT OF MEASURE - *For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:*

| ENGLISH UNIT OF MEASURE | CODE | METRIC UNIT OF MEASURE | CODE |
|---|---|---|---|
| POUNDS | P | KILOGRAMS | K |
| TONS | T | METRIC TONS | M |

*If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.*

D. PROCESSES

1. PROCESS CODES:

*For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.*

*For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A. on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.*

*NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:*

1. *Enter the first two as described above.*
2. *Enter "000" in the extreme right box of Item XIV-D(1).*
3. *Enter in the space provided on page 7, Item XIV-E the line number and the additional code(s).*

2. PROCESS DESCRIPTION: *If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).*

*NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:*

1. *Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.*
2. *In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.*
3. *Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.*

*EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.*

| Line Number | A. EPA HAZARD WASTE NO. (Enter code) | B. ESTIMATED ANNUAL QUANTITY OF WASTE | C. UNIT OF MEASURE (Enter code) | D. PROCESS (1) PROCESS CODES (Enter code) | D. PROCESS (2) PROCESS DESCRIPTION (If a code is not entered in D(1)) |
|---|---|---|---|---|---|
| X 1 | K 0 6 4 | 900 | P | T 0 3 D 8 0 | |
| 2 | D 0 0 2 | 100 | P | T 0 3 D 8 0 | |
| X 3 | D 0 0 1 | 100 | P | T 0 3 D 8 0 | |
| X 4 | D 0 0 2 | | | | Included With Above |



PACCAR 01882

| EPA ID Number | Secondary ID Number |
|---|---|
| C A T 0 8 0 0 1 3 3 5 2 | |

XIV. Description of Hazardous Waste

| Line No. | A. EPA Hazardous Waste No. | B. Est. Annual Quantity | C. Unit of Measure | D. Processes (1) Process Codes | (2) Process Description (If not coded in D(1)) |
|---|---|---|---|---|---|
| 1 | D001 | 100,000 | M | S01 S02 T01 T04 | |
| 2 | D005 | 1,000 | M | S01 S02 T01 T04 | |
| 3 | D006 | 1,000 | M | S01 S02 T01 T04 | |
| 4 | D007 | 1,000 | M | S01 S02 T01 T04 | |
| 5 | D008 | 10,000 | M | S01 S02 T01 T04 | |
| 6 | D018 | 10,000 | M | S01 S02 T01 T04 | |
| 7 | D019 | 1,000 | M | S01 S02 T01 T04 | |
| 8 | D021 | 1,000 | M | S01 S02 T01 T04 | |
| 9 | D022 | 1,000 | M | S01 S02 T01 T04 | |
| 10 | D023 | 1,000 | M | S01 S02 T01 T04 | |
| 11 | D024 | 1,000 | M | S01 S02 T01 T04 | |
| 12 | D025 | 1,000 | M | S01 S02 T01 T04 | |
| 13 | D026 | 1,000 | M | S01 S02 T01 T04 | |
| 14 | D027 | 1,000 | M | S01 S02 T01 T04 | |
| 15 | D028 | 1,000 | M | S01 S02 T01 T04 | |
| 16 | D029 | 1,000 | M | S01 S02 T01 T04 | |
| 17 | D030 | 1,000 | M | S01 S02 T01 T04 | |
| 18 | D032 | 1,000 | M | S01 S02 T01 T04 | |
| 19 | D033 | 1,000 | M | S01 S02 T01 T04 | |
| 20 | D034 | 1,000 | M | S01 S02 T01 T04 | |
| 21 | D035 | 1,000 | M | S01 S02 T01 T04 | |
| 22 | D036 | 1,000 | M | S01 S02 T01 T04 | |
| 23 | D037 | 1,000 | M | S01 S02 T01 T04 | |
| 24 | D038 | 1,000 | M | S01 S02 T01 T04 | |
| 25 | D039 | 1,000 | M | S01 S02 T01 T04 | |
| 26 | D040 | 1,000 | M | S01 S02 T01 T04 | |
| 27 | D041 | 1,000 | M | S01 S02 T01 T04 | |
| 28 | D042 | 1,000 | M | S01 S02 T01 T04 | |
| 29 | D043 | 1,000 | M | S01 S02 T01 T04 | |
| 30 | D002 | 10,000 | M | S01 S02 T01 T04 | |
| 31 | K048 | 10,000 | M | S01 S02 T01 T04 | |
| 32 | K049 | 10,000 | M | S01 S02 T01 T04 | |
| 33 | K050 | 10,000 | M | S01 S02 T01 T04 | |
| 34 | K051 | 10,000 | M | S01 S02 T01 T04 | |
| 35 | K052 | 10,000 | M | S01 S02 T01 T04 | |

| EPA ID Number | Secondary ID Number |
|---|---|
| C A T 0 8 0 0 1 3 3 5 2 | |

XIV. Description of Hazardous Waste

| Line No. | A. EPA Hazardous Waste No. | B. Estimated Annual Quantity | C. Unit of Measure | D. Processes (1) Process Codes | (2) Process Description (if not coded in D(1)) |
|---|---|---|---|---|---|
| 1 | F 0 0 1 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 2 | F 0 0 2 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 3 | F 0 0 3 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 4 | F 0 0 4 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 5 | F 0 0 5 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 6 | F 0 3 7 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 7 | F 0 3 8 | 10,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 8 | K 0 8 6 | 1,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
| 9 | K 0 8 7 | 1,000 | M | S 0 1 S 0 2 T 0 1 T 0 4 | |
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EPA ID Number: C A T 0 8 0 0 1 3 3 5 2

Secondary ID Number:

XV. Map

[redacted]

XVI. Facility Drawing

[redacted]

XVII. Photographs

[redacted]

XVIII. Certifications

[redacted]

I certify under penalty of law that this document and all attached were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accutate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner Signiture Date 8-1-00

Name and Official Title Bruce DeMenno - President - For DeMenno/Kerdoon

Owner Signiture Date

Name and Official Title

Operator Signiture Date 8-1-00

Name and Official Title Bruce DeMenno - President - For DeMenno/Kerdoon

Operator Signiture Date

Name and Official Title

XIX. Comments

[redacted]

Note: Mail completed form to the appropriate EPA Regional or State Office

EXHIBIT # 9A

PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE
COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY
1955 Workman Mill Road / Whittier, CA
Mailing Address. PO Box 4998 / Whittier, California 90607-4998
Charles W Carry, Chief Engineer and General Manager
(310) 699-7411

PERMIT NO 2703 R3

01 CHECK ONE: New Sewer Connection ☐ Existing Sewer Connection ☒

02 Applicant DEMENNO / KERDOON (Legal Company Name)

03 Check one and fill in appropriate information

☒ Corporation Name DEMENNO / KERDOON

Year Incorporated 1971 State of Incorporation CA FED. ID# 95-2909421

☐ Partnership Name _____ Partners _____

☐ Sole Proprietor Name _____ Business Names _____

04 Company Address 2000 N ALAMEDA ST. (Street) COMPTON (City) CA (State) 90222 (Zip)

05 Mailing Address —SAME— (Street) (City) (State) (Zip)

06 Point of Discharge DISCHARGE INTO 48" ALAMEDA TRUNKLINE, 250' N. OF OAK STREET (CENTER LINE)

07 Number of years applicant has been in business at present location 23 (yrs) _____ (months)

08 Name of Property Owner DEMENNO / KERDOON

Address of Property Owner 2000 N. ALAMEDA ST. (Street) COMPTON (City) 90222 (Zip) 310/537-7100 (Telephone Number)

09 Assessors Map Book No. 6169 Page No. ~~II~~ 030 Parcel No. ~~16~~ 001

10 Type of Industry PETROLEUM RECYCLING PLANT (General Description) 2992 (Federal SIC No)

11 Number of Employees (Full Time) ~~114~~ 60 (Part Time) _____

12 Raw Materials Used SEE ATTACHED PERMIT RENEWAL BINDER: A. NATURE OF BUSINESS AND C. TREATMENT OF WASTES RECEIVED. (General Description — Add Additional Sheets as Needed) (Daily Amount Used)

13 Products Produced SEE ATTACHED PERMIT RENEWAL: C. TREATMENT OF WASTES RECEIVED (General Description — Add Additional Sheets as Needed) (Daily Amount Produced)

14 Wastewater Producing Operations SEE ATTACHED PERMIT RENEWAL (Full Description — Add Additional Sheets as Needed)

15 Time of Discharge 12:00 AM ~~PM~~ to 11:59 ~~AM~~ PM Shifts per Day 2, Days per Week M T W Th F Sa Su (Circle AM or PM) (Circle Days)

16 Wastewater Flow Rate ~~95,534~~ FY 96-97 (Average) 96354 WM Gallons per Day 200 (Peak) Gallons per Minute

17 Constituents of Wastewater Discharge SEE ATTACHED CHEMICAL ANALYSES. (General Description — Attach Chemical Analysis Results to the Application)

18 Person in company responsible for industrial wastewater discharge

BRUCE DEMENNO (Name) PRESIDENT (Position) 310 / 537-7100 (Telephone Number)

I affirm that all information furnished is true and correct and that the applicant will comply with the conditions stated on the back of this permit form.

Date AUGUST 22, 1997

19 Signature for Applicant [signature] (Company Administrative Official) (Name) PRESIDENT (Position)

20 Approved/Reviewed by City or County Official

Date Sept 2, 1997

For L.A. County Dept. of Public Works ☐

City of Compton

Name Dante Sagundo

Position City Engineer

Approved by Sanitation Districts of Los Angeles County

Date 12-3-98

Expiration Date 12-3-03

Charles W. Carry, Chief Engineer & General Manager

By [signature]

Position Supervising Civil Engineer

Note: Please submit application first to the applicable City or County agency in which the point of discharge is located. Please contact the local agency for the required permit processing fee Submit the original application (Do not send copies).



CONTINUED ON NEXT PAGE

PACCAR 01886

# FACILITY PERMIT TO OPERATE

**DEMENNO/KERDOON**
**2000 N ALAMEDA ST**
**COMPTON, CA 90222**

## NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT A' THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOS ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR TH RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT B CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTE OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By
Carol Coy
Deputy Executive Officer
Engineering & Compliance

STATE OF CALIFORNIA
PETE WILSON, GOVERNOR

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

# CERTIFIED

## USED OIL RECYCLING FACILITY

CERTIFICATE ISSUED TO:

DRMENNO/KERDOON
2000 NORTH ALAMEDA ST
COMPTON, CA 90222

ISSUED BY:

RALPH E. CHANDLER
EXECUTIVE DIRECTOR

ISSUE DATE: APRIL 1, 1993

CIWMB IDENTIFICATION NUMBER CAT080013352

EXHIBIT # 10

PACCAR 01888

EXHIBIT # 11

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION IX**
**75 Hawthorne Street**
**San Francisco, CA 94105**

FEB 2 5 2001

N. Bonnie Booth
Manager, Environmental Affairs
DeMenno/Kerdoon
2000 N. Alameda Street
Compton, CA 90222

RE: EPA Determination of Acceptability under the CERCLA Off-Site Rule

Dear Ms. Booth;

In response to your request for approval to accept CERCLA waste at your facility, this letter serves to inform you that the U.S. Environmental Protection Agency (EPA), Region 9 has made an affirmative determination regarding the DeMenno/Kerdoon facility's status under the CERCLA Off-Site Rule, 40 CFR. §300.440. As of the date of this letter, DeMenno/Kerdoon may accept CERCLA waste generated as a result of remedial or removal action, provided that such receipt is in accordance with the facility's RCRA permit and the facility's Industrial Wastewater Discharge Permit.

On September 16, 1993, EPA amended the National Oil and Hazardous Substance Pollution Contingency Plan (NCP), 40 CFR Part 300, by adding Section 300.440, now known as the Off-Site Rule ("Rule"). The Rule codifies the requirements contained in Section 121(d)(3) of CERCLA, 42 U.S.C. §9621(d)(3), and incorporates many provisions of EPA's former Off-Site Policy . The Rule established criteria and procedures for determining whether facilities are acceptable for the receipt of CERCLA waste.

In accordance with the Rule, EPA reserves the right to re-evaluate the acceptability of DeMenno/Kerdoon to receive CERCLA waste should any new information affecting this determination be obtained in the future.

If you have any questions concerning this matter, please contact Kandice Bellamy, Region 9's CERCLA Off-Site Rule Coordinator, at (415) 972-3304.

Sincerely,

Kandice Bellamy

cc: Medhi Nobari, DTSC Glendale

Bank of America

EXHIBIT # 12



DATE: JUNE 17, 2003

AMENDMENT TO IRREVOCABLE STANDBY LETTER OF CREDIT NUMBER: 217537

AMENDMENT NUMBER 16

BENEFICIARY
DEPARTMENT OF TOXIC SUBSTANCES
CONTROL,
FINANCIAL RESPONSIBILITY UNIT
8800 CAL CENTER DRIVE

SACRAMENTO, CALIFORNIA 95826

APPLICANT
DEMENNO/KERDOON
2000 N. ALAMEDA STREET
COMPTON, CA 90222
ATTN: VANIA ARJIAN

THIS AMENDMENT IS TO BE CONSIDERED AN INTEGRAL PART OF THE ABOVE CREDIT AND MUST BE ATTACHED THERETO.

THE ABOVE MENTIONED CREDIT IS AMENDED AS FOLLOWS:

THE AMOUNT OF THIS CREDIT HAS BEEN INCREASED BY USD 73,073.00
THE AVAILABLE AMOUNT OF THE CREDIT IS NOW USD 6,716,073.00

BENEFICIARY'S NAME AND ADDRESS NOW TO READ AS SHOWN ABOVE.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

IF YOU REQUIRE ANY ASSISTANCE OR HAVE ANY QUESTIONS REGARDING THIS AMENDMENT, PLEASE CALL 213-345-0065.

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

THIS DOCUMENT CONSISTS OF 1 PAGE(S).

Cristina Purugganan

ANNIE H. MATIAS

Cristina Purugganan

ORIGINAL

ank of America, N.A. Trade Operations
tell Code: CA9-703-19-09
13 S. Beaudry Avenue, 10th Floor, Los Angeles, CA 90017

I-35-0202NSG 9-1999_CA9 19

** TOTAL PAGE.01 **

## GEOLOGY OF THE SITE

A. THE GEOLOGIC INFORMATION REQUIRED BELOW APPLIES ONLY TO FACILITIES

1. That are new

Not applicable to refinery.

2. That are undergoing modification

D/K is undergoing minor modifications.

3. Whose operators are required by DOHS on a case-by-case basis to prepare the information. (Contact DOHS regional office to determine if your facility will be required to prepare the following information.)

DOHS has required that this information be prepared for the refinery.

B. DEMONSTRATE AND STATE THAT PORTIONS OF TREATMENT OR STORAGE FACILITIES FOR HAZARDOUS WASTE WILL NOT BE LOCATED WITHIN 200 FEET OF A FAULT WHICH HAS HAD A DISPLACEMENT IN HOLOCENE TIME AND THAT THE SITE IS NOT LOCATED IN AN ANLQUIST-PRIOLO SPECIAL STUDIES ZONE

1. This demonstration may be made using

a. Published geologic data, i.e., geologic map (available from the state Division of Mines and Geology)

The geologic map of Zlony and Jones, 1989, indicates that the nearest fault to the subject is the Compton fault of the Newport-Inglewood fault zone. The Compton fault is located approximately 3 miles to the southwest of DeMenno/Kerdoon and has evidence of displacements in the Holocene. The subject site is not located within an Alquist-Priolo Special Studies Zone. There is no Special Studies Zone map prepared for the Southgate quadrangle, the nearest Special Studies Zones being located to the southwest (Inglewood quadrangle) and to the north (Los Angeles quadrangle).

b. Aerial reconnaissance of the area and five-mile radius and aerial photographs. The geologic map indicated the relationship of known faults not the subject site.

c. Data obtained from field investigations conducted by, or under the direction of an engineering geologist or hydrogeologist registered and/or certified in California.

Not applicable. The geologic map indicated the relationship of known faults to the subject site.

2. The data submitted must show that either

a. No faults which have had displacement in Holocene time are present or no lineations which suggest the presence of a fault (which have displacement in Holocene time) within 3,000 feet of a facility are present

The nearest fault to the facility, which has had displacements in Holocene time, is approximately 3 miles to the southwest.

b. If faults (to include lineations) which have had displacements in holocene time are present within 3,000 feet of the facility, no faults pass within 200 feet of the portions of the facility where treatment, storage, or disposal of hazardous waste will be conducted, based on data from a comprehensive geologic analysis of the site

Not applicable. The nearest known fault is approximately 3 miles away.

As a brief overview, the facility is located on the Downey Plain physiographic region of the Los Angeles Basin. The subject property is surrounded by low lying topography of this young alluvial plain.

The D/K site is underlain by sequence of unconsolidated marine and continental clastics sediments, the Upper Pleistocene Lakewood Formation, of predominately continental fuvial origin, extends to a depth of approximately 150 feet. At this location, two aquifers are recognized in the Lakewood Formation, the Exposition and Gardena Aquifers. Beneath the Lakewood Formation, approximately 600 feet of the San Pedro Formation is present. The Lower Pleistocene San Pedro Formation is of marine origin and includes the Hollydale, Lynwood, Silverado and Sunnyside Aquifers. The marine sediments of the Pliocene Pico Formation underlie the San Pedro Formation, but are generally not utilized for ground-water production (Fowler and others, 1961).

Information on depth to ground-water was obtained from the Los Angeles County Department of Public Works, Hydraulic and Water Conservation Division. Data from well number 1478D, located approximately 2000 feet west of the subject property, indicated a depth to groundwater of 131.5 feet when the well was sounded on April 30, 1990.

## Corrective Action Activities to Date

As required by state and federal laws for all hazardous waste management facility permit applicants, a RCRA Facility Assessment (RFA) was conducted at the DK site by the DTSC in 1990. The RFA was conducted to determine if any future clean-up, also known as corrective action, would be necessary at the DK facility site. RCRA stands for the Resource Conservation and Recovery Act, which is the federal law governing the hazardous waste facility permitting and management process in the United States. In August 1992, the State of California was authorized by the US Enivommental Protection Agency to implement the federal RCRA program. As the responsible state agency, DTSC has jurisdiction for implementing RCRA and California's hazardous waste programs.

### *RCRA Facility Assessment*

The intent of an RFA is to identify whether any facility equipment is leaking or damaged, and whether any activities at the facility have caused, or have the potential to cause, any releases of hazardous substances into the air, soil, or groundwater. The RFA process includes a review of company and historical records, visual site inspection and, if necessary, soil sampling.

The RFA conducted by the DTSC in 1990 discovered the presence of soil contamination at the DK facility. Three subsequent investigations, under the supervision and approval of the DTSC have been conducted since the RFA. An investigation conducted in 1993 found that groundwater under the facility was also impacted. The contamination consists of chemical constituents common to liquid petroleum hydrocarbons and probably resulted from surface spillage and leaking pipes and tanks during the more than 70-year operating history of the facility. Total and soluble lead, which is commonly associated with used oil, has also been detected in the facility soil at different locations. Groundwater beneath the site is not a source of drinking water.

### *RCRA Facility Investigation*

The RFA and subsequent investigations discovered soil and groundwater contamination, and therefore DTSC has requested that DK conduct the next phase of the corrective action process: the RCRA Facility Investigation (RFI). An RFI Workplan was prepared for the facility and was approved for implementation by the DTSC in June 1994. The overall objective of the RFI is to determine and confirm the nature and extent of soil and groundwater contamination and gather all necessary data to support the corrective action measures at the facility. Since free product (petroleum hydrocarbons in relatively pure form) has been discovered floating on top of the groundwater underlying the facility, it is currently being addressed by pumping and removing the free product and contaminated groundwater.

The RFI is scheduled to be performed in three phases:

- investigation of the sources of the free product;
- investigation of other aspects of investigation of soil contamination and
- investigation of soil contamination.

The RFI process began in July 1994. DK began free product removal in the summer of 1995 and proposes further near-term corrective action measures to recover and control the free product. This free product removal has been underway since August 1995 and has recovered 15,608 gallons of free product as of June 2000.

## Future Activities

Corrective action will continue regardless of the final permit determination. Cleanup measures either will be made part of the final permit conditions, or will be included in the facility closure process if the application for a permit is denied. Public input will be sought as new information is made available. DTSC and DK have entered into a Corrective Action Consent Agreement to finalize all investigation and remediation necessary.

EXHIBIT # 15

# ACORD CERTIFICATE OF LIABILITY INSURANCE



DATE 10/31/2003

PRODUCER 877-559-6769

Willis North America, Inc. - Regional Cert Center
11201 N. Tatum Boulevard
Suite 300
Phoenix, AZ 85028

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
DeMenno Kerdoon
2100 North Alameda Street
Compton, CA 90222

INSURERS AFFORDING COVERAGE

| | | |
|---|---|---|
| INSURER A: | American Home Assurance Company | 19380-001 |
| INSURER B: | National Union Fire Insurance Co. of Pitt | 19445-001 |
| INSURER C: | American International Specialty Lines In | 26883-002 |
| INSURER D: | | |
| INSURER E: | | |

## COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | POLICY NUMBER | POLICY EFFECTIVE DATE (MM/DD/YY) | POLICY EXPIRATION DATE (MM/DD/YY) | LIMITS | |
|---|---|---|---|---|---|---|
| A | GENERAL LIABILITY | 3602066 | 10/31/2003 | 10/31/2004 | EACH OCCURRENCE | $ 900,000 |
| | X COMMERCIAL GENERAL LIABILITY | | | | FIRE DAMAGE (Any one fire) | $ |
| | CLAIMS MADE X OCCUR | | | | MED EXP (Any one person) | $ |
| | | | | | PERSONAL & ADV INJURY | $ 900,000 |
| | | | | | GENERAL AGGREGATE | $ 1,900,000 |
| | GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC | | | | PRODUCTS - COMP/OP AGG | $ 1,900,000 |
| A | AUTOMOBILE LIABILITY | 7204152 | 10/31/2003 | 10/31/2004 | COMBINED SINGLE LIMIT (Ea accident) | $ 1,000,000 |
| | ANY AUTO | | | | BODILY INJURY (Per person) | $ |
| | ALL OWNED AUTOS | | | | | |
| | SCHEDULED AUTOS | | | | BODILY INJURY (Per accident) | $ |
| | X HIRED AUTOS | | | | | |
| | X NON-OWNED AUTOS | | | | PROPERTY DAMAGE (Per accident) | $ |
| | X All Commerical Autos | | | | | |
| | GARAGE LIABILITY | | | | AUTO ONLY - EA ACCIDENT | $ |
| | ANY AUTO | | | | OTHER THAN AUTO ONLY: EA ACC | $ |
| | | | | | AGG | $ |
| B | EXCESS LIABILITY | BE2988057 | 10/31/2003 | 10/31/2004 | EACH OCCURRENCE | $ 1,000,000 |
| | X OCCUR CLAIMS MADE | | | | AGGREGATE | $ 1,000,000 |
| | | | | | | $ |
| | DEDUCTIBLE | | | | | $ |
| | X RETENTION $ 10,000 | | | | | $ |
| | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | | | WC STATUTORY LIMITS / OTHER | |
| | | | | | E.L. EACH ACCIDENT | $ |
| | | | | | E.L. DISEASE - EA EMPLOYEE | $ |
| | | | | | E.L. DISEASE - POLICY LIMIT | $ |
| C | OTHER Pollution | 2671965 | 6/27/2003 | 6/27/2004 | $1,000,000 Each Loss<br>$2,000,000 Aggregate | |

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS

General Liability Policy Limits are excess of $ 100,000 Self Insured Retention each Accident.

CERTIFICATE HOLDER | ADDITIONAL INSURED; INSURER LETTER:

To Whom it May Concern

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE



© ACORD CORPORATION 1988

EXHIBIT # 16

DeMenno / Kerdoon has no outstanding regulatory compliance issues. The D/K facility operates in such a manner as to remain in full compliance with all regulatory requirements.

Historic Compliance Evaluation Inspections (C.E.I.s) to follow.

---

# SUMMARY OF VIOLATIONS

On 6/23, 24, 28, 7/7, 11, 13, 15 + 16/99, the Department of Toxic Substances Control (DTSC), California Environmental Protection Agency, conducted an inspection at:

**Facility Name:** DeMenno/Kerdoon Oil Company

**Facility Address:** 2000 N. Alameda Street
Compton, CA 90222

**EPA ID Number:** CAT 080 013 352

**County Name:** Los Angeles

As a result of this inspection, the violation of hazardous waste laws, regulations, and requirements listed on the attached pages were discovered. All violations must be corrected; the actions you must take to correct the violation(s) are listed with each violation(s). If you disagree with any pf the violation(s) or proposed corrective actions listed in this Summary of Violations, you should inform DTSC. If you disagree with any of the violations listed in Section I, you must give the inspector who issued the Notice to Comply a written notice of disagreement.

You must correct the violation(s) listed in Section I: Minor Violations, within No minor violations. Within five working days of achieving compliance, you must sing the statement certifying compliance at the bottom of Section I and return it to DTSC at the address provided. A false statement that compliance has been achieved is a violation of the law ans punishable by a fine of not less that $2,00 or more than $25,000 for each violation. DTSC may reinspect this facility at any time.

DTSC will provide you a complete inspection report within 65 days of this inspection. You may request a meeting with DTSC to discuss the inspection or the findings of the report. The issuance of this Summary of Violations does not preclude DTSC from taking administrative, civil, or criminal action as a result not the violation(s) noted in the Summary of Violations or that have not been corrected within the time provided in the Notice to Comply.

---

| Authorized Company Representative | Authorized State Agent |
|---|---|
| Name Bruce DeMenno | Name: Dionisia Rodriguez |
| Title President | Title: Hazardous Substances Scientist |
| Signature [signature] | Signature [signature] |
| Date 7-16-99 | Date 7/16/99 |

# SUMMARY OF VIOLATIONS

Facility Name: DeMenno/Kerdoon Oil Company Date: 7/16/99

**Continuation sheet for SECTION II: OTHER VIOLATIONS OR MINOR VIOLATIONS CORRECTED DURING INSPECTION ___**

Unresolved issue:

DK produces recycled oil from "used oil that has been mixed with one or more contaminated petroleum products as oily waste" which is shipped off as MDO. MDO is only tested for standards of purity for recycled oil and not for other tests to ensure that recycled oil is not subject to regulation as hazardous waste. This is a potential violation of Health & Safety Code section 25250.19. DK is trying to resolve this particular issue with DTSC, this time through the permitting process

After resolving all the questions we had, Nobari and I met with management of DK to discuss our observations. We left the facility at around 1300 hours.

## V. VIOLATIONS

No violations were noted during this inspection.

## VI. DISCUSSION WITH MANAGEMENT

At the close of the inspection, Nobari and I met with the management staff of DK, which included Bruce DeMenno, Cathy DeMenno, Jay DeMel, Bonnie Booth, Cyrus Pourhassanian, Kevin Storms and Mike Patterson. I told them that I did not find any violations during my inspection, however, there is an unresolved issue that I have to note on my Summary of Violations (Attachment 19). I told the DK representatives that recycled oil that is produced from used oil that has been mixed with one or more contaminated petroleum products or oily wastes must be tested to ensure that the recycled oil is not subject to regulation as hazardous waste as provided for in the Health and Safety Code, section 25250.19. The product that DK ships off as MDO falls under this category. The MDO must be tested in addition to the Standards of Purity for Recycled Oil to assure that it is no longer subject to regulations as hazardous waste. Bruce and Cathy DeMenno told me that DK is in the process of resolving the testing issue in the permitting process.

## VII. SAMPLE ANALYSIS RESULTS

On July 29, September 8 and September 27, 1999, I received analysis results for the samples I submitted to the Hazardous Materials Laboratory. Attachment 12 shows the results of analysis for the flash point, total metal content, and PCB content and the Toxicity Characteristic Leaching Procedure (TCLP) of the two MDO samples. Analysis results show that both samples do not exhibit characteristics of hazardous waste.

Dionisia Rodriguez
Hazardous Substances Scientist

10/28/99
Date

# SUMMARY OF OBSERVATIONS

On 4/3,4,7,12,13+14, 2000 the Department of Toxic Substances Control (DTSC), California Environmental Protection Agency, conducted an inspection at:

**Facility Name:** DeMenno/Kerdoon Oil Company

**Facility Address:** 2000 No. Alameda Street

Compton, CA 90220

**EPA ID Number:** CAT 080 013 352

**County Name:** Los Angeles

As a result of that inspection, no violations of hazardous waste laws, regulations, and requirements were discovered. DTSC will provide you with a complete inspection report within 65 days of the date of this inspection.

DTSC greatly appreciates the efforts that you have made to comply with the hazardous waste laws and regulations.

Financial requirements are being reviewed by FR Unit.

| Company Representative Accepting Summary | Department Representative |
|---|---|
| Name Bruce DeMenno | Name: Dionisia Rodriguez |
| Title President | Title: Hazardous Substances Scientist |
| Signature | Signature Dionisia Rodriguez |
| Date 4-14-00 | Date 4/14/2000 |



PACCAR 01899

PACCAR Inc

November 28, 2000

Mr. Eugene C. Lacey, P.E.
Senior Engineering Associate
Hart Crowser, Inc.
One World Trade Center, Suite 2460
Long Beach, CA 90831-2460

Dear Mr. Lacey,

This letter serves as authorization for you to sign manifests as PACCAR's agent for the removal of waste barrels from the former Trico facility in Torrance California.

If you have any questions, please call me at (425)468-7435 or Larry Sims at (425)468-7901.

Sincerely,

R.K. Butler, P.E.
Manager
Corporate Environmental Department

CC: R.E. Bangert II
L.L. Sims

C:toragent

P O Box 1518 Bellevue, Washington 98009 Telephone (425) 468-7400
PACCAR Building 777-106th Avenue N E Bellevue, Washington 98004

CONFIRMATION REPORT - MEMORY SEND

Time : NOV-28-00 13:52
Fax number: 425-468-8213
Name : PACCAR CORPORATE

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| Job | : | 829 |
| Date | : | NOV-28 13:51 |
| To | : | 915624956361 |
| Doc pages | : | 01 |
| Start time | : | NOV-28 13:51 |
| End time | : | NOV-28 13:52 |
| Pages sent | : | 01 |
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| Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1 |
|---|---|
| To GENE LACEY | From LARRY SIMS |
| Co HC | Co. PACCAR |
| Dept. | Phone # |
| Fax # | Fax # |

PACCAR INC

November 28, 2000

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Senior Engineering Associate
Hart Crowser, Inc.
One World Trade Center, Suite 2460
Long Beach, CA 90831-2460

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Sincerely,

R.K. Butler, P.E.
Manager
Corporate Environmental Department

CC: R.E. Bangert II
L.L. Sims

C:tomgent

P.O. Box 1518 Bellevue Washington 98009 Telephone (425) 468-7400
PACCAR Building 777 100th Avenue N.E. Bellevue Washington 98004

cc R.K. Butler → LLSims
REB
File Trico Torrence:
Mighty
PEG

KELLEY DRYE

# FACSIMILE TRANSMISSION

| TO | FAX | PHONE |
|---|---|---|
| Daniel Lewis<br>PACCAR, Inc. | (425) 468-8228 | |
| Claire Birkette | (310) 516-0368 | |

KELLEY DRYE & WARREN LLP
777 SOUTH FIGUEROA STREET
SUITE 2700
LOS ANGELES, CA 90017-5825
(213) 689-1300
FAX (213) 688-8150

NO. OF PAGES 2 (including this page)

DATE December 15, 2000

MESSAGE

FROM Patrick Del Duca

PHONE (213) 688-8203

E-MAIL pdelduca@kelleydrye.com

TIMEKEEPER ID 01631

CLIENT NO. 011993-0001

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12/18/00 08:43 FAX 425 468 8228 PACCAR LAW DEPT.

KELLEY DRYE & WARREN LLP
A LIMITED LIABILITY PARTNERSHIP

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SUITE 2700
LOS ANGELES, CALIFORNIA 90017-5825

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DIRECT LINE (213) 689-8203
E-MAIL: pdelduca@kelleydrye.com

December 15, 2000

By Fax: 425/468-8228

Daniel Lewis, Director
Corporate Services
PACCAR, Inc.
Post Office Box 1518
Bellevue, Washington 98004

Re: Materials inquiry

Dear Daniel:

David Gurewitz has shared with me today your inquiry of December 5, 2000 and we have made initial inquiry of Mighty Enterprises. What I understand is that the two barrels you reference were empty and did not belong to Mighty Enterprises. We intend to further review the matter and take action as appropriate, but I wonder whether there may be some confusion as to the demarcation between the parcel leased from Paccar and the contiguous parcel owned outright by Mighty Enterprises. In any event, at the present time I am not aware of any "Reportable Uses" as the lease defines that term. If you have a remaining concern, it might be desirable to schedule a time when Mighty Enterprises can have a knowledgeable representative present to meet with your consultants.

Yours truly,

Patrick Del Duca

cc via e-mail: David M. Gurewitz, Esq. (dmgbeachlaw@earthlink.net)
cc via fax: Claire Birkette (310/516-0368)

LA01/DELDP/180985.1



12/18/00 08:43 FAX 425 468 8228 PACCAR LAW DEPT.

Talk ~~12-18-00~~

12-15-00

Dan —
Any response?
Why not?

VIA

December 5, 2000

Mighty Enterprises, Inc.
19706 S. Normandie Ave
Torrance, CA 90502

Attn: Peter Tsai

**Subject: Handling and Storage of Oils on Site**

Dear Peter:

As you know our consultant has been on-site recently for environmental investigations During their last visit, which was to remove barrels containing waste from their operations, they observed two extra barrels near the ones they were removing. They apparently contained cutting oils. They left them there because they obviously were not theirs. They also observed that there were operating machines in a couple of buildings with attendant waste oils. Some of this activity was near floor sumps.

Under terms of the lease, Section 3.3, Hazardous Substances, Tenant may, without Landlord's prior consent, use any ordinary and customary materials reasonably required to be used by Tenant in the normal course of Tenant's business permitted on the Premises, so long as such use is not a Reportable Use and does not expose the Premises or neighboring properties to any meaningful risk of contamination or damage or expose Landlord to any liability therefor.

✓ Tenant is requested to review the subject barrels and machine waste oil operations and provide written report notice to Landlord by 12/15/00 stating the reason while such barrels and operations are not Reportable Use under terms of the lease. If subject barrels and/or machine waste operations are Reportable Use, Tenant is to request Landlord's consent as is required under terms of the lease.

Very truly yours,

Dan Lewis 12/5

Daniel N. Lewis
Director of Construction & Corporate Services
dan lewis@paccar com

DNL:
cc: File
PEG
REB
L. Sims
David Gurewitz, Attorney at Law, 4108A Highland Ave , Manhattan Beach, CA 90266,
Fax (310_ 546-4497

DAVID M. GUREWITZ
ATTORNEY AT LAW

4108-A HIGHLAND AVENUE
MANHATTAN BEACH, CALIFORNIA 90266

TELEPHONE (310) 545-5696
FAX (310) 546-4497

December 14, 2000

**By Fax (425) 468-8228 and First Class Mail**

Daniel Lewis, Director
Corporate Services
PACCAR, Inc.
Post Office Box 1518
Bellevue, Washington 98004

Re: *1206 West 196th Street, Torrance, California*
*My File No. 4009*

Dear Mr. Lewis.

I am in receipt of your December 5, 2000 letter. Same has been forwarded to Patrick Del Duca for his review. A response shall be forthcoming from Mr. Del Duca, although I do not know whether he will be able to provide you the response by the requested date of December 15, 2000.

In the event of any questions concerning the above, please call

Very truly yours,

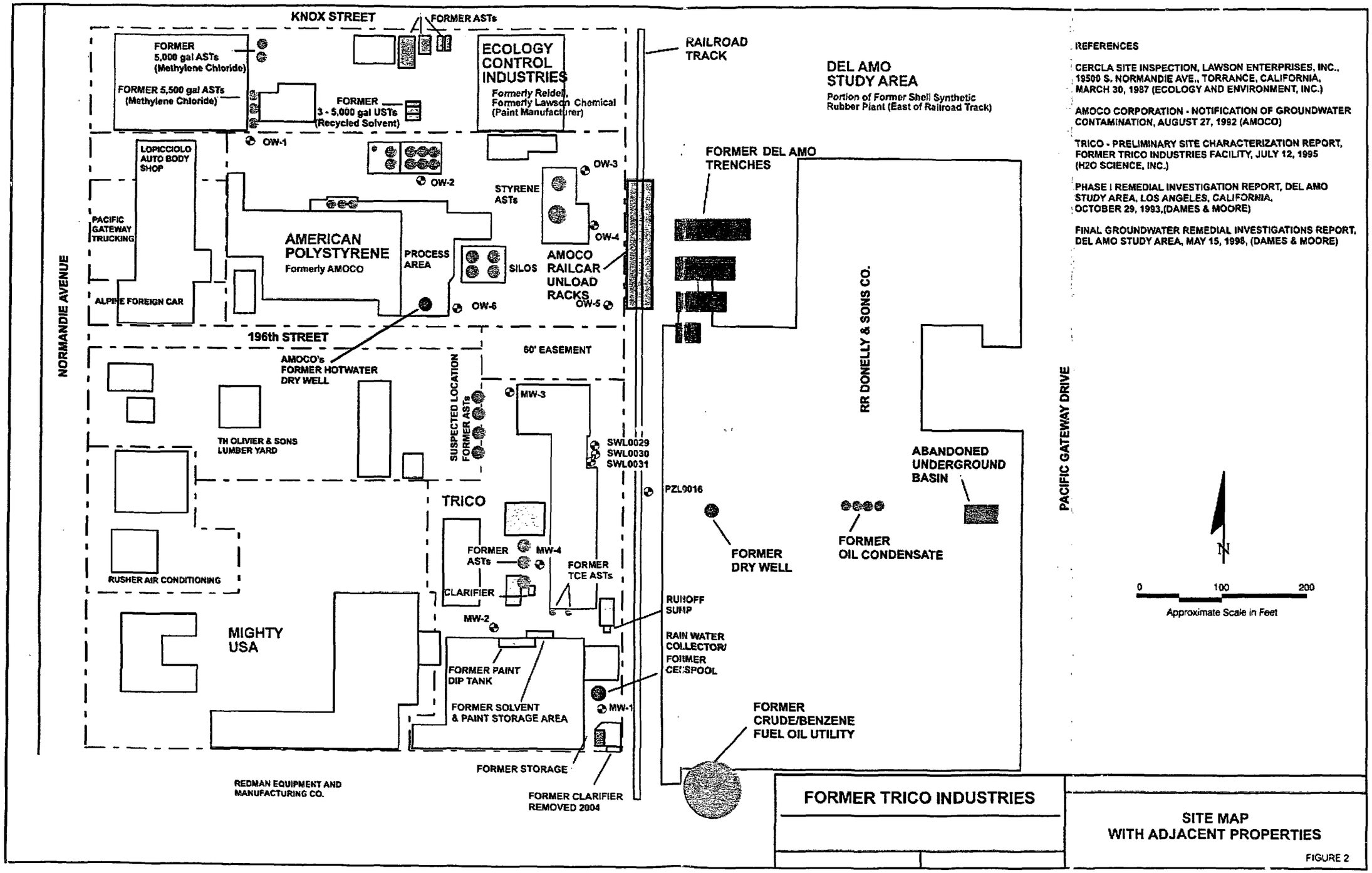
David M. Gurewitz

DMG:lml
cc: Claire Birkotte (By Fax)
Patrick Del Duca (By Fax)

C:\MATTER\DATA\4009\Lewis 12-14-00.wpd

TOTAL P.03

# RESPONSE #18

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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)

H2O SCIENCE, INC.
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

# PRELIMINARY SITE CHARACTERIZATION REPORT
# FORMER TRICO INDUSTRIES FACILITY
# 1206 WEST 196th STREET
# LOS ANGLES COUNTY, CALIFORNIA

Prepared For:

**Mighty USA, Inc.**
**19706 Normandie Avenue**
**Torrance, CA 90502**

**and**

**Trico Industries Inc.**
**3040 Slauson Boulevard**
**Huntington Park, CA**

Prepared By:

**H2O Science, Inc.**
5500 Bolsa Avenue, Suite 105
Huntington Beach, CA 92649

July 12, 1995
024-001

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## 1.0 INTRODUCTION

This report presents the results of the preliminary characterization of vadose zone and ground water contamination by volatile organic compounds (VOCs) at the former Trico Industries facility (referred to herein as the site). The site is located at 1206 West 196th Street, in the unincorporated territory of Los Angeles County, California (Figure 1). Previous investigations had demonstrated that vadose zone and ground water contamination by VOCs exist beneath the site. A summary of the previous site investigations is presented in Section 3.4 of this report.

## 2.0 OBJECTIVE

The objective of this investigation was to conduct a preliminary site characterization of vadose zone and ground water conditions beneath the site.

## 3.0 SITE DESCRIPTION

### 3.1 SITE LOCATION AND PHYSIOGRAPHIC SETTING

The site, approximately 100,000 $ft^2$ (9,300 $m^2$) in area, is located at 1206 West 196th Street, 467 feet (142.3 m) east of Normandie Avenue, in the unincorporated territory of the County of Los Angeles, California (Section 1, Township 4 South, Range 14 West of the San Bernardino Meridian) (USGS, 1965) (Figure 1). 196th Street is a public right-of-way, however, adjacent to the site 196th Street is only an asphalt driveway with no street improvements (curb, gutter, etc.). Interstate 405 (San Diego Freeway) and Interstate 110 (Harbor Freeway) are located approximately one half mile (0.8 km) north and east of the site, respectively (Figure 2).

The site lies approximately 45 feet (13.7 m) above mean sea level (MSL) in the south-central portion of the Torrance Plain. The Torrance Plain is a low lying alluvial plain between the El Segundo Sand Hills (relic Pleistocene sand dunes) to the west and the low hills and mesas along the Newport-Inglewood Fault Zone (NIFZ) to the east. The Dominguez Hills, located approximately 2 miles (3.2 km) northeast of the site, have been uplifted along the NIFZ.

The local topography in the site vicinity is relatively flat with street drainage to the east toward the Dominguez Channel. The Dominguez Channel is a concrete-lined flood control channel located approximately one mile (1.6 km) east of the site. The south-easterly flowing Dominguez Channel drains the Torrance Plain and enters the Pacific Ocean via the Los Angeles Harbor and San Pedro Bay. In the vicinity of the site, the Dominguez Channel is a tidal waterway.



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## 3.2 SITE AND SITE VICINITY LAND USAGE

The site is presently being used by Mighty USA, Inc. (Mighty USA) for the storage of machine tools and miscellaneous imported goods. There are three main buildings at the site:

- Building "A" - 20,000 $ft^2$ (1,860 $m^2$);
- Building "B" - 14,000 $ft^2$ (1,300 $m^2$); and
- Building "C" - 4,000 $ft^2$ (370 $m^2$).

The land use in the site vicinity is comprised of predominantly mixed industrial with some commercial properties (Figure 2). The following properties are located adjacent to the site:

- Mighty USA immediately to the west at 19706 Normandie Avenue;
- Ted H. Oliver and Sons (lumberyard) immediately to the west at 1226 West 196th Street;
- American Polystyrene Company (Formerly Amoco Chemical Co.) immediately to the north at 1225 West 196th Street;
- R.R. Donnelley and Sons (printing) (Formerly Shell Synthetic Rubber Plant) to the east beyond a drainage ditch and Southern Pacific Transportation Company (SPTCo) Railroad right-of-way; and
- Redman Equipment Manufacturing Co. (heat exchanger manufacturer) immediately to the south at 19800 Normandie Avenue.

Other properties in the site vicinity are indicated on Figure 2 with the Los Angeles County Assessors Map. Book and Parcel No. (e.g. Mighty USA at Map-Book-Parcel 7351-35-26).

## 3.3 SITE HISTORY

A review of historical aerial photographs and building permits and discussions with personnel familiar with site history was conducted by another consultant (Section 3.4). This indicated that from 1927 to the 1940s the site and site vicinity were predominantly farmland. Subsequently the site was owned and occupied by the following:

- Kuchner Construction Company (construction equipment);
- American Chemsolv, Inc. (manufacture of paints and storage of solvents);
- B&W Monarch, Inc. (manufacture of oil well completion equipment); and
- Trico Industries, Inc. (Trico) (manufacture of oil well completion equipment).

Trico was purchased by Paccar, Inc. (Paccar) in 1987.



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## 3.4 PREVIOUS INVESTIGATIONS

Previous site investigations have been performed under the direction of the following other consultants:

- SCS Engineers (SCS) - June 1987; November 1987; December 1989
- Hart Crowser, Inc. (HartCrowser) - April 1985

The following summary review is taken directly from the content of reports prepared by other consultants and does not reflect the judgements, opinions or conclusions of H2O Science. *However, H2O Science comments are provided in italics.*

**SCS (1987a). Report for Preliminary Site Investigation at the Trico Industries Facility, 19706 Normandie Avenue, Torrance, California. Prepared by SCS Engineers and dated June 12, 1987.**

- The property comprises two lots:
  - A westerly lot (now owned by Peter Tsai); and
  - An easterly lot (being considered for purchase by Peter Tsai).
- Six exploratory borings were drilled:
  - BH-1 through BH-5 were drilled to a depth of 20 feet (6.1 m); and
  - BH-6 was drilled to a depth of 60 feet (18.3 m).
- The borings were drilled at the following locations:
  - BH-1 was drilled at the location of a former underground storage tank (westerly lot);
  - BH-2 was drilled at a solvent storage area (easterly lot);
  - BH-3 and BH-4 were drilled in the steam cleaning area (easterly lot);
  - BH-5 was drilled in the vehicle maintenance area (easterly lot); and
  - BH-6 was drilled in the former cesspool area (easterly lot).
- The borings detected the following lithologic sequence (depths are approximate):
  - to 20 feet (6.1 m) - silty clay;
  - to 45 feet (13.7 m) - fine grained sand;
  - to 55 feet (16.8 m) - silty clay; and
  - to 60 feet (18.3 m) - fine grained sand.
- Ground water was not detected at any boring location.
- Black staining was observed at BH-6 between depths of 40 and 48 feet (12.2 and 14.6 m).
- Soil contamination (as fuel hydrocarbons) was not detected at BH-1.
- Low levels of solvent contamination were detected at BH-2 (296 µg/kg methylene chloride at 10 feet (3.0 m)).
- Low levels of solvent contamination were detected at BH-3, BH-4 and BH-5. Toluene



PACCAR 01913

contamination was detected at BH-4 and BH-5.

- Low levels of solvent contamination were detected in the shallow soils at BH-6. Elevated levels of solvent contamination were detected at a depth of 40 feet (12.2 m) at BH-6 (17,600 µg/kg dichloroethane (DCA), 3070 µg/kg tetrachloroethene (PCE) and 1477 mg/kg diesel). Lower levels of solvent contamination were detected at a depth of 60 feet (18.3 m) at BH-6 (62 µg/kg DCA, 122 µg/kg PCE and 117 µg/kg methylene chloride).

**SCS (1987b). Preliminary Draft Report for Additional Site Investigation at the Trico Industries Facility, 19706 Normandie Avenue, Torrance, California. Prepared by SCS Engineers and dated November 1987.**

- Three exploratory borings (MW-1, BH-7 and BH-8) were drilled in the vicinity of the cesspool area. One boring was completed as a ground water monitoring well screened from 65 to 85 feet (19.8 to 25.9 m) below ground surface. *The monitoring well was completed across a clay layer detected at a depth of 70 feet (21.3 m) and screened across two ground water bearing strata.*
- Low levels of solvent contamination were detected in the 65-foot (19.8 m) sample from MW-1. *No sample was analyzed from the 40-foot (12.2 m) depth.*
- Low to moderate levels of solvent contamination were detected in the 55-foot and 65-foot (16.8 and 19.8 m) samples from BH-7. *No sample was analyzed from the 40-foot (12.2 m) depth.*
- Low to moderate levels of solvent contamination were detected in the 45-, 55- and 65-foot (13.7, 16.8 and 19.8 m) samples from BH-8. *No sample was analyzed from the 40-foot (12.2 m) depth.*
- DCA, Benzene, PCE, trichloroethene (TCE), dichloroethene (DCE) and 1,1,1-trichloroethane (1,1,1-TCA) were detected in ground water samples from MW-1 above the state maximum contaminant levels (MCLs).

**SCS (1987c). Report for Further Site Investigation at the Trico Industries Facility, 19706 Normandie Avenue, Torrance, California. Prepared by SCS Engineers and undated.**

- An exploratory boring (BH-9) was drilled in the vicinity of the cesspool area. A ground water monitoring well was drilled and installed near BH-2. The ground water monitoring well was screened from 63 to 83 feet (19.2 to 25.3 m) below ground surface. *As with MW-1, the monitoring well was completed across a clay layer detected at a depth of 70 feet (21.3 m) and screened across two ground water bearing strata.*
- Based upon water level measurements from MW-1 and MW-2, a ground water flow direction to the southeast was provided. *It is impossible to provide a ground water flow direction with only two data points.*
- Low levels of solvent contamination were detected in the 50-foot (15.3 m) sample from BH-9 and the 50- and 60-foot (15.3 and 18.3 m) samples from MW-2.



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- DCA (25 µg/L), PCE (160 µg/L), TCE (470 µg/L), DCE (2400 µg/L), 1,1,1-TCA (1200 µg/L) and 1,1,2-TCA (7 µg/L) were detected in ground water samples from MW-1 above the MCLs.
- Methylene chloride (490 µg/L), PCE (79 µg/L) and TCE (130 µg/L) were detected in ground water samples from MW-2 above the MCLs.

The site investigation reports concluded the following:

- The soil contamination in the cesspool area was delineated laterally and vertically;
- The lower levels of soil contamination identified at the other areas were not significant; and
- Additional ground water monitoring wells were required to determine ground water flow direction and assess the source and distribution of ground water contamination.

**SCS (1989). Environmental Assessment Report, 19706 South Normandie Avenue, Torrance, California. Prepared by SCS Engineers and dated December 1989.**

- The purpose of the investigation was to assess the potential for hazardous waste contamination on the site and within a one-mile (1.6 km) radius of the subject property (the westerly lot).
- Asbestos sampling was performed.
- Hazardous wastes were not observed in use at the site. Drums of used oil belonged to Peter Tsai.
- Asbestos containing materials were detected. Recommendations for asbestos removal or management were given.
- Reference was made to the previous investigations performed on the easterly lot and the drilling of exploratory boring BH-1.
- Facilities surrounding the site include a lumberyard, and air conditioning shop, Trico oil well supply facility (easterly lot) and an equipment manufacturing company. An AMOCO Refinery and Douglas Aircraft facility are located in the site vicinity.
- It was concluded that activities on adjacent properties do not pose any significant environmental threat to the subject site.
- A large number of hazardous waste sites within one mile (1.6 km) of the subject property were identified in government agency databases. These included the following facilities within $^1/_4$ mile (400 m) of the subject property:
  - Montrose Chemical Company (CERCLIS);
  - Lawson Enterprises Inc. (CERCLIS);
  - Interweb/R.R. Donnelly & Sons Co. (CERCLIS);
  - Amoco Chemicals Corp. (CERCLIS);
  - Douglas Aircraft Co. (CORTESE);
  - Trico (easterly lot) (CORTESE); and
  - Quantrad Corp. (ASPIS).



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- It was concluded that "there do not appear to be any known or suspected hazardous waste sites within a one-mile (1.6 km) radius of the subject property which may have directly impacted the subject site. However, much of the ground water in the general area has been affected by past industrial activities at facilities in the nearby area and may contain low to moderate levels of solvent and fuel related constituents."
- In addition, it was concluded that "Review of available data (as of December, 1989), the on-site visual inspection, and the site investigation previously performed on the subject site does not suggest or indicate that significant environmental hazards exist relative to the subject site. Therefore, .....further site investigation work is not recommended."

**Hart Crowser (1995). Preliminary Environmental Site Assessment, Former Trico Industries, Inc. Facility, 1206 West 196th Street, Torrance, California. Prepared by HartCrowser, dated April 4, 1995**

SECTION 2.0: SUMMARY OF FINDINGS

- The subject property was used for the storage of construction related equipment followed by the manufacture of paints and storage of solvents.
- Substances used and stored at the property include oil, hydraulic fluids, solvents and paints. Seven above-ground storage tanks (ASTs), two clarifiers and a cesspool were formerly located at the property. *The report actually indicates nine ASTs at the subject property.*
- Previous land use at the property has had the potential to adversely impact the subject property. Chlorinated solvents have been detected in the soil and grounds water beneath the property.
- Historical and present use of neighboring properties include synthetic rubber production, aerospace manufacturing, lumber treatment, automotive repair and agricultural use. The Shell Synthetic Rubber Plant is now on the National Priority List (NPL) - the Del Amo Superfund Site.
- Activities at neighboring properties may have adversely impacted the subject property.
- Asbestos was detected in samples from the vinyl floor tiles.
- Lead was detected in paint samples from the exterior of Building B.

SECTION 3.0: SITE DESCRIPTION

- The property is approximately 100,00 $ft^2$ (9,300 $m^2$) in area. There are three buildings on the property:
  - Building A - 20,000 $ft^2$ (1,860 $m^2$) - pump manufacturing;
  - Building B - 14,000 $ft^2$ (1,300 $m^2$)- warehouse/shipping; and
  - Building C - 4,000 $ft^2$ (370 $m^2$) - warehouse.
- The following industrial facilities are located in the site vicinity:
  - American Polystyrene Company (formerly Amoco Chemical Company) to the north;
  - Mighty USA, Inc. and a lumberyard to the west;



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- Redman Manufacturing (heat exchangers) to the south;
- R.R. Donnelly (printing) to the east beyond a railroad spur; and
- An auto repair facility and McDonnell-Douglas Aircraft west of Normandie Avenue.

- Five ground water monitoring wells exist on the subject property.

SECTION 4.0: SITE GEOLOGY AND HYDROGEOLOGY

- The site elevation is approximately 45 feet (13 7 m) above mean sea level (MSL).
- Site topography slopes to the east toward the Dominguez Channel.
- The site is underlain by silt and sand to 50 feet (15.2 m) below ground surface (BGS), the Palos Verdes Sand from 50 to 100 feet (15 2 to 30.5 m) BGS, an unnamed formation from 100 to 200 feet (30.5 to 61.0 m) BGS and the San Pedro Formation from 200 to 700 feet (61 to 213 m) BGS.
- First ground water is at approximately 60 to 65 feet (18.3 to 19.8 m) BGS.

SECTION 5.0: SITE HISTORICAL INFORMATION

- The following were noted on historical aerial photographs:
  - From 1927 to 1947 the site vicinity was farmland;
  - In 1946 McDonnell-Douglas Aircraft and Shell Synthetic Rubber Plant (with numerous ASTs as close as 50 feet (15.2 m) to the site) existed;
  - In 1951 Building C was in place;
  - In 1954 the northern half of Building A was in place and there was a row of small ASTs along the northwestern property line;
  - In 1957 the northern portion of Building C was in place;
  - In 1963 a southern addition to Building A and a small building in the center of the property with three ASTs to the south were in place;
  - In 1972 the lumberyard existed and the Shell Synthetic Rubber Plant had been demolished;
  - In 1985 the southern extension of Building B was in place and the Shell Synthetic Rubber Plant had been developed into a business park; and
  - In 1992 the property had been divided into two separate parcels.
- A review of local building permits revealed the following:
  - The site was originally developed in the 1940s;
  - Through the 1950s and 1960s the site was remodeled;
  - The original land use was farmland followed by construction equipment (Kuchner Construction Company), 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);
  - In 1957 permits were obtained by American Chemsolv for the cesspool;
  - No installation or abandonment permits were located for the clarifiers;



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- In 1958 permits were obtained by American Chemsolv for two 5,000 gallon (18,900 liter) ASTs;
- The 19706 Normandie Avenue property was occupied by the Kuchner Construction Company in 1947;
- Two building and a cesspool were constructed at the Normandie property in 1947; and
- A 550 gallon (2,080 liter) gasoline underground storage tank (UST) was installed at the Normandie property in 1960.

- The following additional information was obtained in interviews with Trico personnel:
  - Trico purchased B&W, Inc. in 1981 and Trico was purchased by Paccar, Inc. in 1987;
  - In 1989 the western portion of the lot was sold to Mighty Enterprises;
  - Trico maintained two solvent containing ASTs on the southwest corner of Building B (200 and 500 gallon (760 and 1,890 liter)); and
  - The two clarifiers had been abandoned at an undisclosed date.

## SECTION 6.0: REGULATORY AGENCY FILE AND LIST REVIEW

- The subject property appears on the RCRIS-SG, HWIS, CERCLIS, TRI, FINDS and CORTESE lists:
  - Listing on the RCRIS-SG and HWIS databases does not necessarily indicate a problem;
  - The CERCLIS database is a listing of sites which may require clean-up or are being reviewed by the EPA for placement on the NPL;
  - The Trico facility has not been placed on the NPL; and
  - Listing in the TRI, FINDS and CORTESE databases may indicate potential impact to the environment from site activities.
- Regional Water Quality Control Board (RWQCB) files indicate the cesspool at the Trico property was abandoned in the 1960s but was not filled with concrete until 1987.
- SCS reports at the RWQCB indicate that soil and ground water beneath the site have been impacted by Volatile Organic Compounds (VOCs), including chlorinated solvents.
- The RWQCB does not have oversight jurisdiction of the Trico facility at this time. However, the RWQCB may require a remedial action plan to address the soil and ground water contamination.
- In July 1992, the Trico facility was identified by the California Department of Toxic Substances Control (DTSC) as a potentially hazardous waste site and listed on the CERCLIS database.
- In October 1992, Roy F. Weston (under an EPA contract) conducted a Hazard Ranking System (HRS) assessment of the property and did not recommend placing the Trico facility on the NPL.
- Numerous properties within $^1/_4$ mile (0.4 km) of the property are listed on the CERCLIS, LUST and CORTESE lists, including the Del Amo and Montrose Superfund Sites;
  - The Del Amo Superfund Site is located 2,500 feet (760 m) southeast of the property; and
  - The Montrose Superfund Site is located 2,000 feet (610 m) southwest of the property.



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- It was concluded that these two sites do not appear to pose a threat of potential impact to the subject property.
- Other facilities in the site vicinity included in the CERCLIS database are listed as requiring no further action (NFA).
- Files at the RWQCB indicate that soil impacted with solvents has been identified at the McDonnell-Douglas Aircraft. It is reported that solvent impacted ground water is coming onto the McDonnell-Douglas Aircraft property from the northwest.
- The DTSC files contain information about the Amoco Chemical Company facility, a paint manufacturing facility further to the north and a pesticide manufacturing facility southwest of the subject property:
  - The Amoco Chemical Company used solvents, stored drums, and maintained ASTs, sumps and a cesspool (which was abandoned in 1969);
  - The paint manufacturer maintained 14 USTs containing solvent, pigment and paint thinner;
  - The DTSC files indicate a violation issued to the paint manufacturer for discharging paint waste to the ground;
  - Eleven of the 14 tanks at the paint manufacturer were abandoned in place; and
  - The pesticide manufacturing facility operated between 1947 and 1951.

## SECTION 7.0: PREVIOUS SITE INVESTIGATIONS

- *Details regarding previous investigations were provided in earlier correspondence.*

## SECTION 8.0: SITE RECONNAISSANCE

- The clarifier in the center of the property had been abandoned.
- A chemical storage area was noted on the east side of Building A.

## SECTION 9.0: ASBESTOS SCREENING

- Asbestos containing building materials (ACBMs) were not identified in Building C.
- Asbestos was detected in samples of the vinyl floor tiles from Building A and Building B.
- The asbestos sampling did not constitute a California Occupational Safety and Health Administration (Cal-OSHA) asbestos survey.

## SECTION 10.0: POTENTIAL FOR ENVIRONMENTAL IMPACTS

- The following activities undertaken at the subject property and adjacent properties appear to have the potential to have adversely affected the environment:
  - Former ASTs in the central portion of the property (solvents);
  - Former ASTs along the northwest property line (contents unknown);
  - Former vehicle maintenance area (solvents);



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- Former paint dip tank in Building A (paint and solvents);
- Former cesspool at the Trico property (solvents);
- Former clarifier in the central portion of the property (VOCs);
- Former clarifier in the southeast corner of the property (VOCs);
- Former chemical storage area east of Building A (VOCs);
- Existing lumber yard (phenols and polycyclic aromatic hydrocarbons (PAHs));
- Former Shell Synthetic Rubber Plant (numerous chemicals including VOCs);
- Existing McDonnell Douglas Aircraft facility (solvents);
- American Polystyrene (formerly Amoco Chemical Company) (solvents);
- Former paint manufacturing company (VOCs); and
- Former agricultural land (pesticides).

• *The following additional sources which could potentially impact soil and ground water beneath the subject property were not identified in the report:*
  - *Former ASTs south of Building B (solvents);*
  - *Former solvent and paint storage area north of Building A (solvents);*
  - *Existing run-off collection sump at the easterly property line (VOCs);*
  - *Existing drainage ditch along the easterly property line (VOCs);*
  - *Former cesspool at the Normandie property (VOCs); and*
  - *Former Pesticide manufacturer to the south (pesticides).*

## 3.5 SURFACE CONDITIONS

The site land surface is almost completely paved, consisting of asphalt surface, concrete pavement and three main buildings. Apart from areas of broken asphalt, the surface is almost impermeable and impedes the infiltration of rainfall. The site gently slopes to the east and south, and surface drainage is in the form of street wash toward a run-off sump at the easterly property line and a drainage ditch just beyond the property line. Much of the land surface in the immediate site area is covered with paved streets, sidewalks, parking areas and buildings allowing little rainfall infiltration and ground water recharge.

## 3.6 REGIONAL GEOLOGY

The site is located in the Southwestern Structural Block of the Los Angeles Basin between the Gardena Syncline and the Torrance Anticline. The Los Angeles Basin is a northwest trending alluviated lowland plain, underlain by superjacent and basement rocks of Mesozoic to Late Pleistocene age (Norris and Webb, 1990). The Southwestern Structural Block is a northwest-southeast trending structural block which is bounded on the southwest by the Palos Verdes Fault Zone (PVFZ) and on the northeast by the Newport-Inglewood Fault Zone (NIFZ).



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In the site vicinity, the synclinal structure is in-filled with semi-consolidated alluvial deposits overlying consolidated sedimentary formations. The uppermost semi-consolidated alluvial deposits are Early Pleistocene to Holocene in age, and are up to 1,100 feet (335 m) in thickness (Poland et al, 1959). These deposits consist of an alternating sequence of medium to coarse grained and fine grained clastic material comprising a series of aquifers and aquicludes which make up the Lakewood and San Pedro Formations (DWR, 1961). The Pleistocene alluvial deposits overlie marine and non-marine sedimentary rocks with some volcanics, of Late Cretaceous to Pliocene age. The basement rocks which underlie the Basin structure are a complex consisting of the Bedford Canyon Formation, Santiago Peak Volcanics, and the Southern California Batholith. The basement rocks are Jurassic to Late Cretaceous in age (Yerkes et al, 1965).

The El Segundo Sand Hills are located to the west of the site. The Palos Verdes Hills, an uplifted fault block composed of Catalina Schist basement and marine sediments of Tertiary and Quaternary age are located to the south. The PVFZ forms the boundary between the alluvial deposits of the coastal plain and the Palos Verdes Hills (Poland et al, 1959). The Dominguez and Rosecrans Hills, located to the northeast and east of the site, have been uplifted along the NIFZ (Yerkes et al, 1965). The site is located approximately 4 miles (6.4 km) southwest of the Avalon-Compton Fault, part of the NIFZ (Barrows, 1974).

## 3.7 REGIONAL HYDROGEOLOGY

The site is located in the pressure area of the West Coast Ground Water Basin (LACDPW, 1991), and is separated from the main Central Basin by the NIFZ. The NIFZ is a lithological and structural barrier to ground water movement between the West Coast Basin and the Central Ground Water Basin (Poland et al, 1959). In the Dominguez Gap, between the Dominguez Hills and the Los Angeles River, and along a 2.75 mile (4.4 km) segment north of the Dominguez Hills the Newport-Inglewood Fault Zone is non-restrictive to ground water movement within the Recent Semi-perched Aquifer and the Upper Pleistocene Gasper Aquifer. The Lakewood and San Pedro Formations continue without interruption over the Dominguez anticline (DWR, 1961).

The West Coast Ground Water Basin is contained within the Southwestern Structural Block of the Central Plain, the Geologic feature discussed in Section 3.6. Fresh ground water bearing sediments within the Central Basin range in age from Holocene to Pliocene, and extend to a depth in excess of 1,500 feet (457 m). The separate ground water bearing zones below this portion of the Central Basin are named successively with depth: the Gage (locally the Gardena), the Lynwood and the Silverado Aquifers (DWR, 1961). These aquifers are separated by fine grained aquicludes of variable thickness.

The shallowest regional aquifer beneath the site is the Gage (Gardena), which occurs in the lower section



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of the Lakewood Formation. In the vicinity of the site, the Gage (Gardena) can be found at approximately 150 feet (46 m) below grade and is approximately 50 feet (15.2 m) thick. The Lynwood and Silverado aquifers of the Lower Pleistocene San Pedro Formation extend from approximately 250 to 350 feet (76 to 107 m) and from 500 to 700 feet (152 to 213 m) below MSL, respectively (DWR, 1961). Regional ground water flow for the Gage (Gardena) Aquifer in the vicinity of the site is towards the southeast (LACDPW, 1991).

Perched ground water is reported within coarser grained litho-strata of the Bellflower Aquiclude. The Bellflower Aquiclude is comprised of predominantly finer grained deposits and overlies the Gage (Gardena) Aquifer. First ground water has been reported beneath the site at a depth of 65 feet (19.8 m) (SCS, 1987b).

## 3.8 REGIONAL GROUND WATER QUALITY AND WATER SUPPLY WELLS

As a result of the prevailing below-MSL ground water levels in the West Coast Basin, surface flow recharges the basin and sea water has intruded along the coastline (DWR, 1961). Hydraulic barriers to sea water intrusion have been constructed by injection of fresh water into wells along the coastline. Recent analysis of ground water from water wells within the West Coast Basin indicate concentrations of chlorides in excess of 200 mg/l (Bookman and Edmonston, 1991).

Within a quarter of a mile (0.4 km) radius of the site there are no ground water supply wells (LACDPW, 1995). However, numerous ground water monitoring wells have been installed within the site vicinity as part of nearby hazardous waste investigations (Section 3.11).

The following former ground water production wells were located within Section 1, Township 4 South, Range 14 West of the San Bernardino Meridian (Poland et al, 1959):

| Well I.D. | Owner | Depth (feet) | Water Zone (feet) Depth | Thickness | GPM | Use |
|---|---|---|---|---|---|---|
| 4/14-1H1 | Aluminum Co. of America | 600 | 470 | 42 | 815 | Industrial |
| 4/14-1H2 | Aluminum Co. of America | 596 | 475 | 29 | 810 | Industrial |
| | | | 522 | 16 | | |
| 4/14-1H3 | Aluminum Co. of America | 596 | 418 | 14 | 1375 | Industrial |
| | | | 474 | 45 | | |
| | | | 536 | | 11 | |

These wells were all screened within the Silverado Aquifer and are believed to be no longer in use.



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## 3.9 SITE GEOLOGY (From Previous Investigations)

Borings completed during previous site investigations (see Section 3.4) detected the following lithologic sequence (SCS, 1987a; 1987b):

- to 30 feet (9.1 m) - silty clay;
- to 45 feet (13.7 m) - clayey sand;
- to 55 feet (16.8 m) - clay;
- to 65 feet (19.8 m) - fine grained sand;
- to 75 feet (22.9 m) - silty clay; and
- to 85 feet (25.9 m) - fine grained sand.

## 3.10 SITE HYDROGEOLOGY (From Previous Investigations)

The previous investigations reported first ground water at an approximate depth of 65 feet (19.8 m) below ground surface (SCS, 1987b). Ground water flow was reported to the southeast.

## 3.11 HAZARDOUS WASTE INVESTIGATIONS IN THE SITE VICINITY

A large number of hazardous waste sites within one mile (1.6 km) of the subject property were identified in government agency databases (SCS, 1989; HartCrowser, 1995). These included the following facilities within $^1/_4$ mile (400 m) of the site:

- Montrose Chemical Company (Montrose Superfund Site) (Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS));
- Shell Synthetic Rubber Plant (Del Amo Superfund Site) (CERCLIS);
- Lawson Enterprises Inc. (CERCLIS);
- Interweb/R.R. Donnelley & Sons Co. (CERCLIS);
- Amoco Chemicals Corp. (CERCLIS);
- Douglas Aircraft Co. (CORTESE);
- Quantrad Corp. (Abandoned Sites Program Information System (ASPIS));
- A paint manufacturing facility (State of California Department of Toxic Substances Control (DTSC)); and
- A pesticide manufacturing facility (DTSC).

H2O Science personnel visited the DTSC to review files for the Del Amo Superfund Site. It was hoped that detailed information about the following would be available:



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- Site Characterization Reports, including investigation history, descriptions of lithology, hydrogeology, contaminant presence and extent in soil and ground water, boring logs, well construction details, soil sample analytical results, ground water monitoring data and ground water sample analytical results;
- Ground Water Sampling Reports, including ground water monitoring data and ground water sample analytical results;
- Risk Assessments, indicating risk based clean-up goals for the detected contaminants;
- Remedial Action Plans, indicating proposed mitigation programs to be implemented; and
- Remediation Status Reports, indicating remediation progress toward a clean-up goal.

However, this detailed information about the Del Amo Superfund Site was not available at the DTSC. Such information could be requested from the responsible parties and/or their consultants at a future date.

# 4.0 FIELD INVESTIGATIONS

## 4.1 HAND AUGER BORINGS

### 4.1.1 FIELD INVESTIGATION

A total of nineteen hand auger borings (HA-1 through HA-19) were advanced by H2O Science personnel at the site on June 19, 20 and 21, 1995. Hand auger boring locations are shown on Figure 3.

The borings were advanced using a 3-inch (7.5 cm) diameter hand auger to a depth of approximately 9.5 feet (2.9 m), except HA-1 and HA-14 which met refusal at depths of 3.5 and 6 feet (1.1 and 1.8 m), respectively. Soil samples were collected at 3, 6 and 9-foot (0.9, 1.8 and 2.7 m) depths. The borings were back-filled with hydrated bentonite chips and finished at the surface to match the existing cover. A detailed description of hand augering and soil sampling procedures is provided in Appendix A. Boring logs for the hand auger borings are provided in Appendix B.

### 4.1.2 LABORATORY ANALYSES

Soil samples were screened in the field for total VOCs using a Photovac Microtip IS-3000 equipped with a photo-ionization detector (PID). The PID readings are provided on the respective borehole logs in Appendix B. General soil odor observations were also recorded for each soil sample collected.

Soil samples were sent to Fullerton Environmental Laboratory (FEL), a State-certified hazardous waste testing laboratory in Fullerton, California. One selected sample from each boring was analyzed for VOCs using United States Environmental Protection Agency (EPA) Method 8240. The sample from hand auger



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boring HA-1 was also analyzed for pesticides using EPA Method 8080. The sample from hand auger boring HA-17 was also analyzed for poly-aromatic hydrocarbons (PAHs) and phenols using EPA Method 8270. Complete laboratory test results for soil samples analyzed for this investigation, including chain-of-custody forms and QA/QC reports, are included in Appendix C.1. All soil sample VOC analyses results from this and previous investigations at the site are presented in Table 2.

## 4.2 GROUND WATER MONITORING WELL INSTALLATION

### 4.2.1 FIELD INVESTIGATION

A total of two new monitoring well borings (monitoring wells MW-3 and MW-4) were drilled at the site on June 26 and 27, 1995. The monitoring well locations are shown on Figure 3.

All drilling was performed by A&R Drilling, a State-licensed drilling contractor from Gardena, California. The borings were advanced using 8-inch (20 cm) diameter hollow stem augers to a depth of approximately 68 feet (20.7 m). Soil samples were collected at 5-foot (1.5 m) intervals from ground surface to depths of 40 and 45 feet (12.2 and 13.7 m) at MW-3 and MW-4, respectively, and thence continuously to total depth. A detailed description of drilling and soil sampling procedures is provided in Appendix A.

The boring locations were completed as 2-inch (10 cm) diameter monitoring wells. The wells were constructed using a 10-foot (3.0 m) section of stainless steel screen with a 0.02-inch (0.5 mm) slot size, a 5-foot (1.5 m) stainless steel blank casing and Schedule 80 PVC blank casing to ground surface. The well annulus was filled with a Monterey #2/12 sand pack to 2 feet (0.6 m) above the screened section and hydrated bentonite chips to ground surface. A traffic rated well box was set in concrete at the ground surface to protect the well head. After installation, the well heads were surveyed for vertical elevation and approximate horizontal location. Boring logs and well construction details are provided in Appendix B and well construction details are also summarized on Table 1.

### 4.2.2 LABORATORY ANALYSES

Soil samples were screened in the field for total VOCs using a Photovac Microtip IS-3000 equipped with a PID. The PID readings are provided on the respective borehole logs in Appendix B. General soil odor observations were also recorded for each soil sample collected.

Soil samples were sent to FEL and selected samples from each boring analyzed for VOCs using EPA Method 8240. Complete laboratory test results for soil samples analyzed for this investigation, including chain-of-custody forms and QA/QC reports, are included in Appendix C.1. All soil sample VOC analyses results from this and previous investigations at the site are presented in Table 2.



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## 4.3 MONITORING WELL DEVELOPMENT AND SAMPLING

### 4.3.1 FIELD INVESTIGATION

The existing monitoring wells (MW-1 and MW-2) were purged and sampled on June 12, 1995. The new monitoring wells (MW-3 and MW-4) were developed using a surge block and bailer suspended from the drill rig winch line during well installation after addition of the sand pack and prior to addition of the bentonite seal. The new monitoring wells were purged and sampled on June 28, 1995.

Monitoring wells were purged by hand using a 1.5-inch (3.8 cm) diameter bailer. Well purging was continued until the hydro-geochemical parameters [ground water temperature, pH, electrical conductivity (EC) and turbidity (as NTU units)] had stabilized and/or until five casing volumes of water had been purged from the well.

More detailed descriptions of monitoring well development procedures and well purging and sampling procedures are provided in Appendix A. Monitoring well sampling forms are provided in Appendix D. Ground water monitoring data are provided in Table 3.

### 4.3.2 LABORATORY ANALYSES

After purging and recovery of ground water levels to more than 80% pre-purge levels, the monitoring wells were sampled. Ground water samples were collected with a disposable Teflon™ bailer. Ground water sampling procedures are outlined in Appendix A.

Ground water samples were sent to FEL and analyzed for VOCs using EPA Method 624. Complete laboratory test results for ground water samples analyzed for this investigation, including chain-of-custody forms and QA/QC reports, are included in Appendix C.2. All ground water sample VOC analyses results from this and previous on-site investigations (SCS, 1987b; 1987c) are presented in Table 4.

## 4.4 SOIL CUTTINGS AND WATER DISPOSAL

Soil cuttings generated during the drilling of all soil borings, ground water generated during well development and purging and water used for equipment decontamination were placed in Department of Transportation (DOT) approved 55 gallon (208 liter) drums, and temporarily stored on site. At a later date, the drums of soil and water will be transported for disposal to an appropriate facility by a licensed hazardous waste hauler.



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## 5.0 SITE GEOLOGY

A total of 19 hand augers and two monitoring well borings were drilled at the site during this investigation. A detailed description of the soils detected in each of these borings is presented on the boring logs in Appendix B. Based upon these logs the following lithographic sequence is interpreted beneath the site (depths are approximate):

- **Silty clay** with layers of sandy silt, clayey fine sand and fine sand to 28 feet (8.5 m) below ground surface;
- Fine to medium **sand** with silt and silty sand layers to 43 feet (13.1 m) below ground surface;
- **Silty clay** with silt and fine sand layers to 53 feet (16.1 m) below ground surface;
- Fine to medium **sand** to 65 feet (19.8 m) below ground surface; and
- **Clayey silt** to a depth beyond 69.5 feet (21.2 m).

Previous investigations (SCS, 1987b) detected another sand unit to a depth beyond 85 feet (25.9 m) below the clayey silt layer.

## 6.0 SITE HYDROGEOLOGY

### 6.1 MONITORING WELL DATA ANALYSIS

From an interpretation of lithological borehole logs (Appendix B), ground water surface elevations (Table 3) and water quality data (Table 4) from this and previous investigations, two laterally continuous ground water bearing zones have been identified beneath the site:

- A first (upper) unconfined ground water bearing zone was detected within fine to medium-grained sand between approximately 53 and 65 feet (16.1 and 19.8 m) below ground surface. Saturated conditions were detected at an approximate depth of 60 feet (18.3 m). During this investigation, a ground water elevation of approximately 14.1 feet (4.30 m) below MSL has been monitored in wells screened within this first ground water bearing zone.
- A second (lower) confined ground water bearing zone was detected within a sand unit between approximately 70 and 85 feet (21.3 and 25.9 m) below ground surface (SCS, 1987b). Immediately after installation, ground water levels rose approximately 5 feet (1.5 m) in wells screened within this unit (MW-1 and MW-2) to an approximate elevation of 20 feet (5.4 m) below MSL. During this investigation, a ground water elevation of approximately 14.6 feet (4.45 m) below MSL has been monitored in wells screened across this second ground water bearing zone.

The clayey silt layer described at 65 to 70 feet (19.8 to 21.3 m) below ground surface acts as a confining



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bed for the second ground water bearing zone, and provides partial hydraulic isolation between the second and first ground water bearing zones.

## 6.2 GROUND WATER FLOW CONDITIONS - FIRST GROUND WATER BEARING ZONE

### 6.2.1 POTENTIOMETRIC SURFACE

A map of the ground water potentiometric surface of the first ground water bearing zone beneath the site could not be prepared as only two monitoring wells are solely screened within this zone. However, a map showing the ground water elevations for the first and second ground water bearing zones has been prepared (Figure 6). The ground water flow direction in the first ground water bearing zone has been reported to the southeast (SCS, 1987b).

### 6.2.2 LATERAL HYDRAULIC GRADIENT

The lateral hydraulic gradient in the first ground water bearing zone beneath the site could not be determined from only two monitoring well data points. Ground water flow direction, lateral hydraulic gradient and hydraulic properties (effective porosity, transmissivity and hydraulic conductivity) are not known. Therefore, advective ground water flow velocities and retarded solute transport velocities could not be calculated for the first ground water bearing zone.

## 6.3 GROUND WATER FLOW CONDITIONS - SECOND GROUND WATER BEARING ZONE

### 6.3.1 POTENTIOMETRIC SURFACE

A map of the ground water potentiometric surface of the second ground water bearing zone beneath the site could not be prepared as no monitoring wells are solely screened in this zone. However, a map showing the ground water elevations for both ground water bearing zones has been prepared (Figure 6). Ground water flow direction in the second ground water bearing zone cannot be calculated.

### 6.3.2 LATERAL HYDRAULIC GRADIENT

The lateral hydraulic gradient in the second ground water bearing zone beneath the site could not be determined as no wells are solely screened in this ground water bearing zone. Ground water flow direction, lateral hydraulic gradient and hydraulic properties (effective porosity, transmissivity and hydraulic conductivity) are not known. Therefore, advective ground water flow velocities and retarded solute transport velocities could not be calculated for the second ground water bearing zone.



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### 6.3.3 VERTICAL HYDRAULIC GRADIENTS

Two ground water bearing zones have been identified beneath the site. The ground water levels monitored at the site may suggest a downward vertical hydraulic gradient from the first ground water bearing zone to the second ground water bearing zone. This vertical hydraulic gradient creates a potential for downward ground water flow. The presence of a retarding clay layer inhibits this potential. The previously installed monitoring wells MW-1 and MW-2 are screened across both the first and second ground water bearing zones. This may be allowing the potential for downward vertical flow from the first ground water bearing zone to the second ground water bearing zone to be realized at these well locations.

## 7.0 VADOSE ZONE CONTAMINATION

### 7.1 LABORATORY ANALYSES RESULTS

VOC concentrations in soil samples collected during this and previous investigations are presented in Table 2. VOC concentrations for soil samples with VOC concentrations twenty times the maximum contaminant level (MCL) (Marshack, 1991) are summarized in Figure 4. Pesticides were not detected in the soil sample analyzed from hand auger boring HA-1. PAHs and phenols were not detected in the soil sample analyzed from hand auger boring HA-17.

Concentrations of VOCs greater than twenty times the respective MCL were detected at the following boring locations:

| Boring I.D. | Depth (feet) | Contaminant | Concentration | MCL (mg/kg) |
|---|---|---|---|---|
| BH-2 | 10 | Methylene Chloride | 0.296 | 0 005 |
| BH-5 | 10 | 1,2-Dichloroethane (DCA) | 0.011 | 0.0005 |
| BH-6 | 40 | 1,2-DCA | 17.6 | 0.0005 |
| | | Tetrachloroethene (PCE) | 3 07 | 0.005 |
| | 60 | Methylene Chloride | 0.117 | 0.005 |
| | | 1,2-DCA | 0.062 | 0.0005 |
| | | PCE | 0 122 | 0.005 |
| BH-8 | 65 | Trichloroethene (TCE) | 0 22 | 0.005 |
| HA-11 | 9 | 1,2-Dichlorobenzene (DCB) | 0.47 | 0.010 |
| | | 1,4-DCB | 0.36 | 0.005 |
| HA-12 | 3 | Toluene | 7 3 | 0.100 |
| | | Ethylbenzene | 13 | 0.680 |
| | | Total Xylenes | 210 | 1.750 |
| HA-14 | 3 | TCE | 0 52 | 0.005 |
| | | PCE | 0 88 | 0.005 |
| HA-16 | 3 | PCE | 0.11 | 0.005 |
| HA-17 | 3 | PCE | 0 11 | 0.005 |



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| Boring I D | Depth (feet) | Contaminant | Concentration | MCL (mg/kg) |
|---|---|---|---|---|
| MW-3 | 25 | 1,2-DCA | 0 01 | 0 0005 |
| | | TCE | 0 38 | 0.005 |
| | | PCE | 0 21 | 0.005 |
| | 45 | Methylene Chloride | 0 27 | 0.005 |
| | | 1,2-DCA | 0 023 | 0.0005 |
| | | TCE | 1 1 | 0 005 |
| | | PCE | 0.87 | 0.005 |
| | 60 | TCE | 0 23 | 0 005 |
| | 68 | Methylene Chloride | 0 73 | 0 005 |
| | | TCE | 8 8 | 0.005 |
| | | PCE | 3 5 | 0.005 |
| MW-4 | 65 | TCE | 0.3 | 0.005 |

Contaminants detected in soil below a depth of approximately 60 feet (18.3 m) represent contamination within the first ground water bearing zone. A smear zone probably exists within the lower vadose zone, capillary fringe and upper portion of the first ground water bearing zone, between approximately 58 and 63 feet (17.7 and 19.2 m) below ground surface. In this zone, residual, adsorbed, and dissolved phase hydrocarbons are smeared, re-deposited, or re-dissolved by changing saturation conditions.

## 7.2 EXTENT OF VADOSE ZONE CONTAMINATION

Vadose zone contamination by VOCs greater than twenty times the respective MCL has been detected in the southeast of the site at the former cesspool (BH-6 and BH-8), in the center of the site near the former central clarifier and ASTs (BH-2, HA-11, HA-12, HA-14 and MW-4) and in the northwest of the site near former ASTs (HA-16, HA-17 and MW-3). Due to the limited number of soil samples collected from the lower portions of the vadose zone, the extent of vadose zone contamination by VOCs has not been adequately delineated and therefore, cannot be effectively depicted.

## 7.3 NATURE OF VADOSE ZONE CONTAMINATION

The detection of toluene, ethylbenzene and total xylenes (HA-12) suggests that a release of petroleum hydrocarbons may have occurred in the center of the site at the central clarifier.

The presence of methylene chloride, 1,2-DCA, TCE and PCE in soil samples (Table 2) taken at the site suggest that the vadose zone soil contamination resulted from a release of chlorinated solvents. The distribution of these contaminants in the vadose zone (Figure 4) suggests that a release occurred at the following locations:



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- In the southeast of the site at the former cesspool;
- In the center of the site near the former central clarifier and ASTs; and
- In the northwest of the site either at the former on-site ASTs or at a nearby off-site source to the north

## 7.4 DISCUSSION (modified from Mercer and Cohen, 1993)

Chlorinated solvents have specific gravities greater than water, that is, they are denser than water. In their pure liquid form they are referred to as dense non aqueous phase liquids (DNAPLs). DNAPL chemicals migrate in the subsurface as volatiles in soil gas, dissolved in soil water and ground water, and as a mobile, separate phase liquid (Feenstra and Cherry, 1988). This migration is governed by transport principles and the following chemical and media specific properties (Mercer and Cohen, 1993):

- Saturation, interfacial tension, wettability, capillary pressure, residual saturation, relative permeability, solubility, vapor pressure, volatilization, density and viscosity.

DNAPL chemical migration is controlled by the interaction of these properties and principles with site-specific lithologic, hydrogeologic, geochemical and DNAPL release conditions. Based on this information, a conceptual model may be developed concerning the behavior of DNAPL in the subsurface. A thematic depiction of DNAPL movement in the subsurface is presented in Figure 7 (modified from Huling and Weaver, 1991; WCGR, 1991; Newell and Ross, 1992; and Kueper and McWhorter, 1992).

Subsurface DNAPL is acted upon by three distinct forces due to the following (Mercer and Cohen, 1993):

- Gravity;
- Capillary pressure; and
- Hydrodynamic pressure (also known as the hydraulic or viscous force).

Gravity promotes the downward migration of DNAPL. Capillary pressure resists the migration of nonwetting DNAPL from larger to smaller openings in water-saturated porous media, and visa-versa. Therefore, fractures, desiccation cracks, root holes, other macro-pores and coarse-grained strata with relatively large openings provide preferential pathways for nonwetting DNAPL migration. Capillary pressure effects cause lateral spreading of DNAPL above capillary barriers, such as on top of clay layers. The hydrodynamic force due to hydraulic gradient can promote or resist DNAPL migration and is usually minor compared to gravity and capillary pressures. Mobile DNAPL can migrate along capillary barriers (such as bedding planes) in a direction opposite to the hydraulic gradient. This complicates site characterization (Mercer and Cohen, 1993).



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DNAPL presence can be determined directly by visual examination of subsurface samples, inferred by interpretation of chemical analyses of subsurface samples, and suspected based on interpretation of anomalous chemical distribution and hydrogeologic data. However, due to the limited and complex distributions of DNAPL, its occurrence and migration may be difficult to detect (Mercer and Cohen, 1993).

When released to the subsurface, gravity causes DNAPL to migrate downward through the vadose zone as a distinct liquid. This vertical migration may be accompanied by a degree of lateral spreading due to the effects of capillary forces (Schwille, 1988). Downward movement will be enhanced, and lateral spreading limited, by low moisture content conditions and the presence of transmissive vertical pathways for DNAPL transport. Most chlorinated solvents have high vapor pressures and, where DNAPL exists in the vadose zone, a plume of solvent vapor develops in the soil air surrounding the DNAPL source. These contaminant vapors can diffuse tens of yards or more form a DNAPL source in the vadose zone (Mendoza and McAlary, 1990; and Mendoza and Frind, 1990a; 1990b). These vapor phase contaminants may be detected as low contaminant mass to soil mass (mg/kg) concentrations in soil samples.

As can be seen in Figure 7, DNAPL movement in the clay strata is controlled by gravity and to a large extent by capillary barriers. Movement will primarily be limited to preferential pathways (e.g. fractures, desiccation cracks, coarser-grained lenses etc.). In coarser-grained strata, DNAPL movement is controlled primarily by gravity and is predominantly vertical with limited lateral spreading. An individual soil boring may not intercept a DNAPL-bearing pathway or residual DNAPL, and no contamination or only lower concentrations (from vapor phase contaminants) may be detected. However, a lower concentration does not preclude the presence of DNAPL in close proximity to the boring.

In soil, contaminant concentrations >1% (10,000 mg/kg) are generally indicative of DNAPL presence. However, DNAPL may be present at much lower soil concentrations (Mercer and Cohen, 1993). With regard to the site, the VOC concentrations detected in the soil samples may not be representative of DNAPL at the boring locations. However, as stated above, this does not preclude the presence of DNAPL in close proximity to the borings, or at greater depth with respect to the hand auger borings.

Only a release of tens of gallons (Mercer and Cohen, 1993; Schwille, 1988) of DNAPL is required to completely penetrate most vadose zones. Although stratigraphic layering will cause some lateral migration, penetration through the vadose zone can be fairly rapid. Residual DNAPL above the water table will provide a continuing source of ground water contamination via vapor transport and dissolution processes (Mercer and Cohen, 1993).



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## 8.0 GROUND WATER CONTAMINATION

### 8.1 FIRST GROUND WATER BEARING ZONE

#### 8.1.1 LABORATORY RESULTS

VOC concentrations in ground water samples collected during this and previous investigations are presented in Table 4. VOC concentrations greater than the respective MCL for ground water samples collected during this investigation are summarized in Figure 5. During this investigation, concentrations of VOCs above the respective MCL were detected in ground water samples from the following monitoring wells screened across the first ground water bearing zone:

| Well I.D. | Contaminant | Concentration | MCL (µg/l) |
|---|---|---|---|
| MW-1 | Benzene | 21 | 1 |
| | 1,1-DCA | 2900 | 5 |
| | 1,2-DCA | 37 | 0.5 |
| | 1,1-Dichloroethene (DCE) | 300 | 6 |
| | TCE | 3700 | 5 |
| | PCE | 800 | 5 |
| | Vinyl Chloride | 42 | 0.5 |
| MW-2 | TCE | 1800 | 5 |
| | PCE | 460 | 5 |
| MW-3 | Benzene | 40 | 1 |
| | Methylene Chloride | 630 | 5 |
| | 1,2-DCB | 15 | 10 |
| | 1,4-DCB | 17 | 5 |
| | 1,1-DCA | 24 | 5 |
| | 1,2-DCA | 19 | 0.5 |
| | 1,1-DCE | 140 | 6 |
| | TCE | 30,000 | 5 |
| | PCE | 15,000 | 5 |
| MW-4 | Benzene | 62 | 1 |
| | Chloroform | 190 | 100 |
| | Methylene Chloride | 40 | 5 |
| | 1,2-DCB | 40 | 10 |
| | 1,4-DCB | 26 | 5 |
| | 1,1-DCA | 48 | 5 |
| | 1,2-DCA | 21 | 0.5 |
| | 1,1-DCE | 150 | 6 |
| | 1,1,2-Trichloroethane (TCA) | 10 | 5 |
| | TCE | 30,000 | 5 |
| | PCE | 10,000 | 5 |



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Monitoring wells MW-1 and MW-2 are screened across both the first and second ground water bearing zones. The contaminant concentrations in ground water samples from these wells may be indicative of contamination levels in the first ground water bearing zone. As chlorinated hydrocarbons generally have specific gravities greater than water, the contaminant concentrations may also be indicative of contamination levels in the second ground water bearing zone. However, it is likely that the concentrations represent an indeterminate ratio value for both ground water bearing zones.

VOC concentrations for ground water samples taken at on-site (SWL0029, SWL0030 and SWL0031 (Figure 3)) and nearby monitoring wells (PZL0016, SWL0002, SWL0007, SWL0038, XMW-10 and XG-14 (Figure 2)) installed as part of the adjacent Del Amo Superfund investigation are also presented in Table 4. VOC concentrations above the respective MCL were detected in ground water samples at the following monitoring wells that may be screened in the first ground water bearing zone:

| Well I.D. | Contaminant | Concentration | MCL (µg/l) |
|---|---|---|---|
| SWL0029 | Benzene | 2 0 | 1.0 |
| | 1,1-DCE | 7.6 | 6 |
| | cis-1,2-DCE | 13 | 6 |
| | TCE | 980 | 5 |
| | PCE | 380 | 5 |
| PZL0016 | cis-1,2-DCE | 1,300 | 6 |
| | TCE | 11,000 | 5 |
| | PCE | 6,100 | 5 |
| XMW-10 | TCE | 10 | 5 |
| XG-14 | TCE | 37 | 5 |

### 8.1.2 EXTENT OF GROUND WATER CONTAMINATION

There are only two on-site ground water monitoring wells screened solely in the first ground water bearing zone (MW-3 and MW-4). Concentrations of VOCs above the respective MCLs were detected in ground water samples from both of these wells. Due to the limited number of ground water samples collected from the first ground water bearing zone, the extent of ground water contamination by VOCs has not been adequately delineated and therefore, cannot be effectively depicted.

### 8.1.3 NATURE OF GROUND WATER CONTAMINATION

The detection of benzene in ground water samples suggests that a release of petroleum hydrocarbons has occurred. Petroleum hydrocarbon contamination (toluene, ethylbenzene and total xylenes) was detected in a soil sample collected at HA-12 (Table 2). Petroleum hydrocarbon contamination in ground water could have resulted from this release. However, this sample was collected at a depth of 3 feet (0.6 m) and benzene was not detected. In addition, the benzene concentrations in the ground water samples range



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only up to 61 µg/l (Table 4). Therefore, it is possible that the benzene contamination may have resulted from an unidentified on-site source or an off-site release.

The detection of methylene chloride, 1,2-DCA, 1,1-DCE, TCE and PCE and other chlorinated hydrocarbons suggest that a release of chlorinated solvents has occurred. The distribution of these contaminants in the vadose zone (Figure 4) and the elevated concentrations in the ground water samples suggests that a release occurred at the following locations:

- In the southeast of the site at the former cesspool;
- In the center of the site near the former central clarifier and ASTs; and
- In the northwest of the site either at the former on-site ASTs or at an off-site source to the north.

## 8.2 SECOND GROUND WATER BEARING ZONE

### 8.2.1 LABORATORY RESULTS

VOC concentrations in ground water samples collected during this and previous investigations are presented in Table 4. VOC concentrations greater than the respective MCLs for ground water samples collected during this investigation are summarized in Figure 5. There are no ground water monitoring wells screened solely within the second ground water bearing zone. However, there are two monitoring wells screened across both the first and second ground water bearing zones (MW-1 and MW-2). VOC concentrations above the respective MCLs detected in ground water samples from these wells are summarized in Section 8.1.1.

As discussed in Section 8.1.1, these contaminant concentrations may be indicative of contamination levels in the second ground water bearing zone. However, it is likely that the concentrations represent an indeterminate ratio value for both ground water bearing zones.

### 8.2.2 EXTENT OF GROUND WATER CONTAMINATION

Concentrations of VOCs above the respective MCLs were detected in ground water samples from both MW-1 and MW-2. Due to the limited number of ground water samples collected from the second ground water bearing zone, the extent of ground water contamination by VOCs has not been adequately delineated and therefore, cannot be effectively depicted.

### 8.2.3 NATURE OF GROUND WATER CONTAMINATION

To contaminate the second ground water bearing zone, the contaminants had to pass through the first



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ground water bearing zone and through the aquitard between the first and second ground water bearing zones. The contamination may have reached the second ground water bearing zone by one or more of the following methods:

- Migration through areas of increased permeability (fractures, desiccation cracks, root holes, other macro-pores, or lenses of coarser grained material); and
- Through previously installed on-site monitoring wells screened across both the first and second ground water bearing zones.

## 8.3 DISCUSSION (modified from Mercer and Cohen, 1993)

Upon encountering the capillary fringe (soil saturated with water but under lower than atmospheric pressure), DNAPL will accumulate until the gravitational pressure developed at the base of the accrued DNAPL exceeds the threshold entry pressure of the underlying water-saturated medium. When this occurs, DNAPL will displace water and continue its migration under pressure and gravity forces.

Given sufficient volume, DNAPL will typically migrate downward until it reaches a barrier layer upon which it may continue to flow laterally. Transport of DNAPL upon a capillary barrier, therefore, will be governed in large part by the barrier layer slope. If the barrier layer slopes in a direction that varies from that of the hydraulic gradient, DNAPL will move in a different direction than ground water flow and solute transport. As DNAPL spreads above a capillary barrier (fine-grained layer), it may encounter and enter fractures, root holes, stratigraphic windows, burrow holes, desiccation cracks, and inadequately screened and/or sealed wells.

As a result of these processes, DNAPL will be present in the saturated zone as pools above a capillary barrier and residual globules and ganglia along the downward migration pathway (Figure 7) or within vertical preferential pathways. Mobile and immobile DNAPL in the saturated zone will dissolve in ground water and thereby act as a long term source of ground water contamination.

As discussed above and as shown in Figure 7, DNAPL movement in the saturated coarser-grained strata is controlled primarily by gravity and is predominantly vertical with limited lateral spreading. However, upon reaching a capillary barrier (fine-grained layer) the DNAPL may pool in depressions upon this layer and spread laterally along the slope of this layer. An individual monitoring well may not intercept residual DNAPL or a DNAPL pool, and only lower dissolved concentrations may be detected in ground water samples. However, a lower concentration does not preclude the presence of DNAPL in close proximity to the monitoring well. Typically, dissolved contaminant concentrations >1% of the aqueous solubility limit are highly suggestive of DNAPL presence (Mercer and Cohen, 1993). The following are the aqueous solubilities at 20°C (68°F) for some of the chlorinated solvents detected beneath the site:



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| Contaminant | Aqueous solubility (mg/L) | 1% Aqueous Solubility (µg/L) |
|---|---|---|
| Methylene Chloride | 20,000 | 200,000 |
| 1,1-DCA | 5,500 | 55,000 |
| 1,1-DCE | 400 | 4,000 |
| TCE | 1,100 | 11,000 |
| PCE | 150 | 1,500 |
| Vinyl Chloride | 1,100 | 11,000 |

As discussed above, an underlying fine-grained layer may not completely prevent the continued vertical migration of DNAPL. DNAPL may penetrate the layer through preferential pathways (e.g. fractures, etc.) or inadequately screened and/or sealed monitoring wells. Thus lower ground water bearing zones can be impacted by a DNAPL release resulting in contamination of ground water within these deeper aquifers.

With regard to the site, the concentrations of TCE and PCE detected in ground water samples from MW-3 and MW-4 may be indicative of DNAPL presence in the vicinity of these monitoring wells. The VOC concentrations detected in the ground water samples from other monitoring wells may not be representative of DNAPL at these well locations. However, as stated above, this does not preclude the presence of DNAPL in close proximity to the wells.

Residual DNAPL within the saturated strata and DNAPL pooled on a capillary barrier will provide a continuing source of ground water contamination via dissolution processes (Mercer and Cohen, 1993). A large volume of ground water can be contaminated by only a small volume of DNAPL reaching the saturated zone (Mercer and Cohen, 1993).

# 9.0 CONCLUSIONS

## 9.1 SITE GEOLOGY

- The following lithographic sequence is interpreted beneath the site (depths are approximate):
  - **Silty clay** to 28 feet (8.5 m) below ground surface;
  - **Sand** to 43 feet (13.1 m) below ground surface;
  - **Silty clay** to 53 feet (16.1 m) below ground surface;
  - **Sand** to 65 feet (19.8 m) below ground surface;
  - **Clayey silt** to 70 feet (21.3 m) below ground surface; and
  - **Sand** to a depth beyond 85 feet (25.9 m).

## 9.2 SITE HYDROGEOLOGY

- Two ground water bearing zones have been identified beneath the site:



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- A first (upper) unconfined ground water bearing zone within fine to medium-grained sand between approximately 53 and 65 feet (16.1 and 19.8 m) below ground surface. Ground water was monitored in wells screened solely within this zone at an approximate elevation of 14.1 feet (4.30 m) below mean sea level.
- A second (lower) confined ground water bearing zone within a sand unit between approximately 70 and 85 feet (21.3 and 25.9 m) below ground surface (SCS, 1987b). Ground water was monitored in wells screened across this zone at an approximate elevation of 14.6 feet (4.45 m) below mean sea level.

## 9.3 VADOSE ZONE CONTAMINATION

- VOC concentrations greater than 20 times the respective MCL were detected in soil samples from borings BH-2, BH-5, BH-6, BH-8, HA-11, HA-12, HA-14, HA-16, HA-17, MW-3 and MW-4.
- The detection of toluene, ethylbenzene and total xylenes (HA-12) suggests that a release of petroleum hydrocarbons may have occurred in the center of the site at the central clarifier.
- The presence of methylene chloride, 1,2-DCA, TCE and PCE suggests that a release of chlorinated solvents occurred at the following locations:
  - In the southeast of the site at the former cesspool;
  - In the center of the site near the former central clarifier and ASTs; and
  - In the northwest of the site either at the former on-site ASTs or at a nearby off-site source to the north.
- The VOC concentrations detected in the soil samples may not be representative of DNAPL at the boring locations. However, this does not preclude the presence of DNAPL in close proximity to the borings, or at greater depth with respect to the hand auger borings.
- Only a small volume of DNAPL is required to penetrate most vadose zones. Residual DNAPL above the water table will provide a continuing source of ground water contamination via vapor transport and dissolution processes.

## 9.4 GROUND WATER CONTAMINATION

### 9.4.1 FIRST GROUND WATER BEARING ZONE

- During this investigation, concentrations of VOCs above the respective MCL were detected in ground water samples from monitoring wells MW-1, MW-2, MW-3 and MW-4 screened across the first ground water bearing zone.
- Monitoring wells MW-1 and MW-2 are screened across both the first and second ground water bearing zones. It is likely that the concentrations in ground water samples from these wells represent an indeterminate ratio value for both ground water bearing zones.



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- VOC concentrations above the respective MCL were detected in ground water samples at monitoring wells SWL0029, PZL0016, XMW-10 and XG-14 installed as part of the adjacent Del Amo Superfund investigation.
- The detection of benzene in ground water samples suggests that a release of petroleum hydrocarbons occurred either near the central clarifier, an unidentified on-site source or an off-site release.
- The detection of methylene chloride, 1,2-DCA, 1,1-DCE, TCE and PCE and other chlorinated hydrocarbons suggest that a release of chlorinated solvents occurred at the following locations:
  - In the southeast of the site at the former cesspool;
  - In the center of the site near the former central clarifier and ASTs; and
  - In the northwest of the site either at the former on-site ASTs or at an off-site source to the north.

### 9.4.2 SECOND GROUND WATER BEARING ZONE

- Two monitoring wells are screened across both the first and second ground water bearing zones (MW-1 and MW-2). VOC concentrations above the respective MCLs were detected in both these wells. It is likely that these concentrations represent an indeterminate ratio value for both ground water bearing zones.
- Contamination may have reached the second ground water bearing zone by migration through areas of increased permeability (fractures, desiccation cracks, root holes, other macro-pores, or lenses of coarser grained material), and through previously installed on-site monitoring wells screened across both the first and second ground water bearing zones.

### 9.4.3 DISCUSSION

- The concentrations of TCE and PCE detected in ground water samples from MW-3 and MW-4 may be indicative of DNAPL presence in the vicinity of these monitoring wells.
- The VOC concentrations detected in the ground water samples from other monitoring wells may not be representative of DNAPL at these well locations. However, this does not preclude the presence of DNAPL in close proximity to the wells.
- A large volume of ground water can be contaminated by only a small volume of DNAPL reaching the saturated zone. Residual DNAPL within the saturated strata and DNAPL pooled on a capillary barrier will provide a continuing source of ground water contamination via dissolution processes.



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## 10.0 CLOSURE

This report has been prepared for the exclusive use of Mighty USA Inc. and Trico Industries Inc. as it pertain to the Trico Industries Facility located at 1206 West 196th Street, in the unincorporated territory of the County of Los Angeles, California. Our services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable qualified environmental consultants practicing in this or similar locations. No other warranty, either express or implied, is made as to the professional advice included in this work plan. These services were performed consistent with our agreement with our client.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

The purpose of a geologic/hydrogeologic/contaminant investigation is to reasonably characterize existing subsurface conditions at the site. In performing such an investigation, it is understood that no investigation is thorough enough to describe all subsurface conditions of interest at a given site. If conditions have not been identified during the investigation, such a finding should not, therefore, be construed as a guarantee of the absence of such conditions at the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

With regard to geologic/hydrogeologic/contaminant conditions, our professional opinions are based in part on interpretation of data from discrete sampling locations. It should be noted that actual conditions at un-sampled locations may differ from those interpreted from sampled locations.

Respectfully Submitted,
**H2O Science, Inc.**

Anthony Brown, REA
Principal Hydrologist

K Dean Mitchell
B/AB
K. Dean Mitchell
Project Hydrogeologist

Reviewed By:

Mark P. Ausburn, RG
Principal Geologist

6-30-97



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**TABLE 1:**
**MONITORING WELL CONSTRUCTION DETAILS**
**1206 WEST 196TH STREET, COUNTY OF LOS ANGELES**

| WELL I.D. | INSTALLATION DATE (M/D/Y) | DATUM ELEVATION | CASING DIAMETER (INCHES) | TOTAL DEPTH (BGS) | SCREENED DEPTH INTERVAL (BGS) | SAND PACK DEPTH INTERVAL (BGS) |
|---|---|---|---|---|---|---|
| MW-1 | 07/28/87 | 44.74 | 4 | 86 | 64 to 83 | 53 to 83 |
| MW-2 | 03/29/88 | 45.74 | 4 | 82 | 63 to 83.5 | 61 to 85 |
| MW-3 | 06/26/95 | 47.42 | 2 | 67 | 57 to 67 | 55.5 to 67 |
| MW-4 | 06/27/95 | 46.25 | 2 | 65 | 55 to 65 | 53 to 65 |
| SWL0029 | NA | 46.37 | NA | NA | NA | NA |
| SWL0030 | NA | 46.37 | NA | NA | NA | NA |
| SWL0031 | NA | 46.41 | NA | NA | NA | NA |

NOTES:

1) All dimensions in feet unless otherwise noted.
2) AMSL = Above Mean Sea Level.
3) BGS = Below Ground Surface.
4) NA = Data Not Available.
5) Datum elevation is top of well box relative to a point at the southeast corner of the property arbitrarily assigned a value of 45 feet, which is the approximate elevation above mean sea level of the site.

## TABLE 2:
## LABORATORY ANALYSES RESULTS - SOIL SAMPLES
## 1206 WEST 196TH STREET, COUNTY OF LOS ANGELES

| SAMPLE I.D. | DATE | DEPTH (FEET BGS) | TRPH (mg/kg) | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL-BENZENE (mg/kg) | TOTAL XYLENES (mg/kg) | CHLORO-BENZENE (mg/kg) | METHYLENE CHLORIDE (mg/kg) | 1,2-DCB (mg/kg) | 1,3-DCB (mg/kg) | 1,4-DCB (mg/kg) | 1,1-DCA (mg/kg) | 1,2-DCA (mg/kg) | 1,1-DCE (mg/kg) | 1,1,1-TCA (mg/kg) | 1,1,2-TCA (mg/kg) | TCE (mg/kg) | PCE (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MCL> | | - | 0.001 | 0.100 | 0.680 | 1.750 | 0.030 | 0.005 | 0.010 | 0.020 | 0.005 | 0.005 | 0.0005 | 0.006 | 0.200 | 0.005 | 0.005 | 0.005 |
| BH-1 | 05/12/87 | 10 | ND | ND | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | | 15 | ND | ND | ND | NA | ND | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| BH-2 | 05/12/87 | 5 | NA | ND | ND | ND | ND | ND | 0.02 | ND | ND | ND | ND | ND | ND | 0.008 | ND | ND | 0.01 |
| | | 10 | NA | ND | ND | ND | ND | ND | 0.296 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH-3 | 05/12/87 | 5 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 10 | NA | ND | ND | ND | ND | ND | 0.046 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH-4 | 05/12/87 | 5 | NA | ND | 0.089 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 10 | NA | ND | ND | ND | ND | ND | 0.027 | ND | ND | ND | ND | ND | ND | 0.011 | ND | ND | ND |
| BH-5 | 05/12/87 | 5 | NA | ND | 0.128 | ND | ND | ND | 0.023 | ND | ND | ND | ND | ND | ND | 0.02 | ND | ND | 0 008 |
| | | 10 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.011 | ND | ND | ND | ND | 0.013 |
| BH-6 | 05/12/87 | 10 | ND | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.092 | ND | ND | 0.007 |
| | | 20 | ND | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.062 | ND | ND | 0.016 |
| | | 40 | 1477 | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | 17.6 | ND | ND | ND | ND | 3.07 |
| | | 60 | ND | NA | NA | NA | NA | ND | 0.117 | NA | NA | NA | ND | 0.062 | ND | ND | ND | ND | 0.122 |
| BH-7 | 07/29/87 | 55 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.711 | ND | 0.023 | 0 017 |
| | | 65 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.620 | ND | 0.097 | 0.041 |
| BH-8 | 07/29/87 | 45 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.418 | ND | ND | ND |
| | | 55 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.226 | ND | ND | ND |
| | | 65 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.930 | 0.020 | 0.220 | 0.087 |
| BH-9 | 03/30/88 | 5 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | 0.01 | ND | 0.029 | ND |
| | | 10 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 20 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 30 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 40 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 50 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | 0.12 | ND | 0.024 | ND |
| HA-1 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

NOTES:

1) ND = Not Detected (see Appendix C for detection limits)
2) NA = Not Analyzed
3) MCL = Maximum Contaminant Level
4) TRPH = Total Recoverable Petroleum
5) DCB = Dichlorobenzene
6) DCA = Dichloroethane.
7) DCE = Dichloroethene
8) TCA = Trichloroethane.
9) TCE = richloroethene
10) PCE = Tetrachloroethene



PACCAR 01944

## TABLE 2:
## LABORATORY ANALYSES RESULTS - SOIL SAMPLES
## 1206 WEST 196TH STREET, COUNTY OF LOS ANGELES

| SAMPLE I.D. | DATE | DEPTH (FEET BGS) | TRPH (mg/kg) | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL-BENZENE (mg/kg) | TOTAL XYLENES (mg/kg) | CHLORO-BENZENE (mg/kg) | METHYLENE CHLORIDE (mg/kg) | 1,2-DCB (mg/kg) | 1,3-DCB (mg/kg) | 1,4-DCB (mg/kg) | 1,1-DCA (mg/kg) | 1,2-DCA (mg/kg) | 1,1-DCE (mg/kg) | 1,1,1-TCA (mg/kg) | 1,1,2-TCA (mg/kg) | TCE (mg/kg) | PCE (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MCL> | | - | 0.001 | 0.100 | 0.680 | 1.750 | 0.030 | 0.005 | 0.010 | 0.020 | 0.005 | 0.005 | 0.0005 | 0.006 | 0.200 | 0.005 | 0.005 | 0 005 |
| HA-2 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0096 | 0.0086 | ND | 0.0066 | 0.032 |
| HA-3 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-4 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-5 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0095 | 0 0097 |
| HA-6 | 06/19/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-7 | 06/20/95 | 9 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-8 | 06/20/95 | 6 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-9 | 06/20/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0054 | 0 010 |
| HA-10 | 06/20/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0087 | 0.011 |
| HA-11 | 06/20/95 | 9 | NA | ND | ND | ND | 0.018 | 0.011 | ND | 0.47 | 0.046 | 0.36 | ND | ND | ND | ND | ND | ND | ND |
| HA-12 | 06/20/95 | 3 | NA | ND | 7.3 | 13 | 210 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| HA-13 | 06/21/95 | 3 | NA | ND | 0.56 | 0.72 | 5.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 6 | NA | ND | ND | ND | 0.014 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 9 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.031 |
| HA-14 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.52 | 0 88 |
| HA-15 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.026 |
| HA-16 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.055 | 0.11 |
| HA-17 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.071 | 0 11 |
| HA-18 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.0091 | 0.017 |

NOTES:

1) ND = Not Detected (see Appendix C for detection limits)
2) NA = Not Analyzed.
3) MCL = Maximum Contaminant Level.
4) TRPH = Total Recoverable Petroleum
5) DCB = Dichlorobenzene
6) DCA = Dichloroethane
7) DCE = Dichloroethene
8) TCA = Trichloroethane
9) TCE = richloroethene
10) PCE = Tetrachloroethene



PACCAR 01945

## TABLE 2:
## LABORATORY ANALYSES RESULTS - SOIL SAMPLES
## 1206 WEST 196TH STREET, COUNTY OF LOS ANGELES

| SAMPLE I.D. | DATE | DEPTH (FEET BGS) | TRPH (mg/kg) | BENZENE (mg/kg) | TOLUENE (mg/kg) | ETHYL-BENZENE (mg/kg) | TOTAL XYLENES (mg/kg) | CHLORO-BENZENE (mg/kg) | METHYLENE CHLORIDE (mg/kg) | 1,2-DCB (mg/kg) | 1,3-DCB (mg/kg) | 1,4-DCB (mg/kg) | 1,1-DCA (mg/kg) | 1,2-DCA (mg/kg) | 1,1-DCE (mg/kg) | 1,1,1-TCA (mg/kg) | 1,1,2-TCA (mg/kg) | TCE (mg/kg) | PCE (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MCL> | | - | 0.001 | 0.100 | 0.680 | 1.750 | 0.030 | 0.005 | 0.010 | 0.020 | 0.005 | 0.005 | 0.0005 | 0.006 | 0.200 | 0.005 | 0.005 | 0.005 |
| HA-19 | 06/21/95 | 3 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.010 |
| MW-1 | 07/28/87 | 65 | NA | NA | NA | NA | NA | ND | ND | NA | NA | NA | ND | ND | ND | 0.088 | 0.008 | 0.039 | ND |
| MW-2 | 04/04/95 | 5 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 10 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 20 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 30 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 40 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 50 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.08 | 0.037 |
| | | 60 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.036 | 0.008 |
| | | 70 | NA | NA | NA | NA | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.007 | ND |
| MW-3 | 06/26/95 | 15 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.081 | 0.022 |
| | | 25 | NA | ND | ND | ND | ND | ND | 0.034 | 0.02 | ND | 0.0092 | ND | 0.01 | ND | ND | ND | 0.38 | 0.21 |
| | | 45 | NA | ND | ND | ND | ND | ND | 0.27 | 0.04 | ND | 0.02 | ND | 0.023 | ND | ND | 0.0081 | 1.1 | 0.87 |
| | | 60 | NA | ND | ND | ND | ND | ND | 0.067 | ND | ND | ND | ND | ND | ND | ND | ND | 0.23 | 0.054 |
| | | 68 | NA | 0.011 | ND | ND | ND | ND | 0.73 | ND | ND | ND | 0.007 | ND | 0.049 | ND | ND | 8.8 | 3.5 |
| MW-4 | 06/27/95 | 5 | NA | ND | 0.052 | 0.32 | 3.8 | ND | ND | 0.045 | ND | ND | ND | ND | ND | ND | ND | 0.0071 | ND |
| | | 20 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 35 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | 50 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.037 | 0.089 |
| | | 65 | NA | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.300 | 0.035 |

NOTES:

1) ND = Not Detected (see Appendix C for detection limits).
2) NA = Not Analyzed.
3) MCL = Maximum Contaminant Level.
4) TRPH = Total Recoverable Petroleum
5) DCB = Dichlorobenzene.
6) DCA = Dichloroethane.
7) DCE = Dichloroethene.
8) TCA = Trichloroethane.
9) TCE = Trichloroethene.
10) PCE = Tetrachloroethene.



PACCAR 01946

# TABLE 4:
# GROUND WATER LABORATORY ANALYTICAL DATA
# 1206 WEST 196TH STREET, COUNTY OF LOS ANGELES

| SAMPLE I.D. | DATE (M/D/Y) | BENZENE (µg/L) | TOLUENE (µg/L) | CHLORO-BENZENE (µg/L) | CHLORO-ETHANE (µg/L) | CHLORO-FORM (µg/L) | $CCl_4$ (µg/L) | CYCLO-HEXANE (µg/L) | METHYLENE CHLORIDE (µg/L) | TRICHLORO-FLUORO-METHANE (µg/L) | 1,2-DCB (µg/L) | 1,3-DCB (µg/L) | 1,4-DCB (µg/L) | 1,1-DCA (µg/L) | 1,2-DCA (µg/L) | 1,1-DCE (µg/L) | CIS-1,2-DCE (µg/L) | TRANS-1,2-DCE (µg/L) | 1,1,1-TCA (µg/L) | 1,1,2-TCA (µg/L) | TCE (µg/L) | PCE (µg/L) | VINYL CHLORIDE (µg/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MCL> | 1 | 100 | 30 | - | 100 | 5 | - | 5 | 150 | 10 | 20 | 5 | 5 | 0.5 | 6 | 6 | 10 | 200 | 5 | 5 | 5 | 0.5 |
| MW-1 | 07/06/87 | 1.1 | 16.5 | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | 11 | ND | NA | ND | 3.6 | ND | ND | 1.6 | ND |
| | 04/04/88 | ND | ND | ND | ND | 6 | ND | ND | ND | ND | ND | ND | 5 | ND | 25 | 2,400 | NA | ND | 1,200 | 7 | 470 | 160 | ND |
| | 03/04/93 | 220 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1,500 | ND | 720 | 110 | ND | 3,300 | ND | 420 | ND | ND |
| | 03/09/94 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1,800 | ND | 220 | 100 | ND | 120 | ND | 5,400 | 1,800 | ND |
| | 06/12/95 | 21 | ND | ND | ND | 11 | ND | NA | ND | ND | ND | ND | ND | 2,900 | 37 | 300 | NA | ND | 100 | ND | 3,700 | 800 | 42 |
| MW-2 | 04/04/88 | ND | ND | ND | ND | 7 | ND | NA | 490 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 130 | 70 | ND |
| | 09/13/90 | ND | ND | ND | ND | 6 | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | 10 | ND | ND | ND | 470 | 220 | ND |
| | 04/26/93 | ND | ND | ND | ND | 7.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.3 | 6.1 | ND | ND | ND | 910 | 400 | ND |
| | 03/10/94 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 20 | 15 | ND | ND | ND | 950 | 410 | ND |
| | 06/12/95 | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | ND | ND | ND | ND | ND | NA | ND | ND | ND | 1,600 | 460 | ND |
| MW-3 | 06/28/95 | 40 | ND | 4.0 | ND | 99 | 1.6 | NA | 630 | 2.9 | 16 | 2.4 | 17 | 24 | 19 | 140 | NA | 1.6 | ND | 2.9 | 30,000 | 15,000 | ND |
| MW-4 | 06/28/95 | 62 | 1.8 | 4.1 | ND | 190 | 1.9 | NA | 40 | ND | 40 | 3.8 | 26 | 48 | 21 | 150 | NA | 2.4 | ND | 10 | 30,000 | 10,000 | ND |
| SWL0029 | 02/09/94 | 2.0 | ND | ND | ND | 2.0 | ND | ND | ND | ND | ND | ND | ND | 1.3 | ND | 7.6 | 13 | ND | ND | ND | 980 | 380 | ND |
| SWL0030 | 02/21/94 | 2.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| SWL0031 | 02/21/94 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **NEARBY MONITORING WELLS:** | | | | | | | | | | | | | | | | | | | | | | | |
| PZL0016 | 03/30/94 | ND | ND | ND | ND | 70 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1,300 | ND | ND | ND | 11,000 | 6,100 | ND |
| SWL0002 | 02/11/94 | NA | NA | NA | NA | NA | NA | ND | NA | NA | ND | ND | ND | ND | ND | ND | NA | NA | ND | ND | NA | NA | NA |
| SWL0007 | 02/08/94 | 0.64 | ND | ND | 11 | ND | ND | ND | ND | 9.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.9 | ND | ND |
| SWL0038 | 03/28/94 | ND | ND | ND | ND | ND | ND | 920 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| XMW-10 | 02/14/94 | ND | ND | 220 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 10 | ND | ND |
| XG-14 | 02/22/94 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 37 | ND | ND |

NOTES

1) ND = Not Detected (see Appendix C for detection limits)
2) NA = Not Analyzed
3) MCL = Maximum Contaminant Level
4) $CCl_4$ = Carbon tetrachloride
5) DCB = Dichlorobenzene
6) DCA = Dichloroethane
7) DCE = Dichloroethene
8) TCA = Trichloroethane
9) TCE = Trichloroethene
10) PCE = Tetrachloroethene



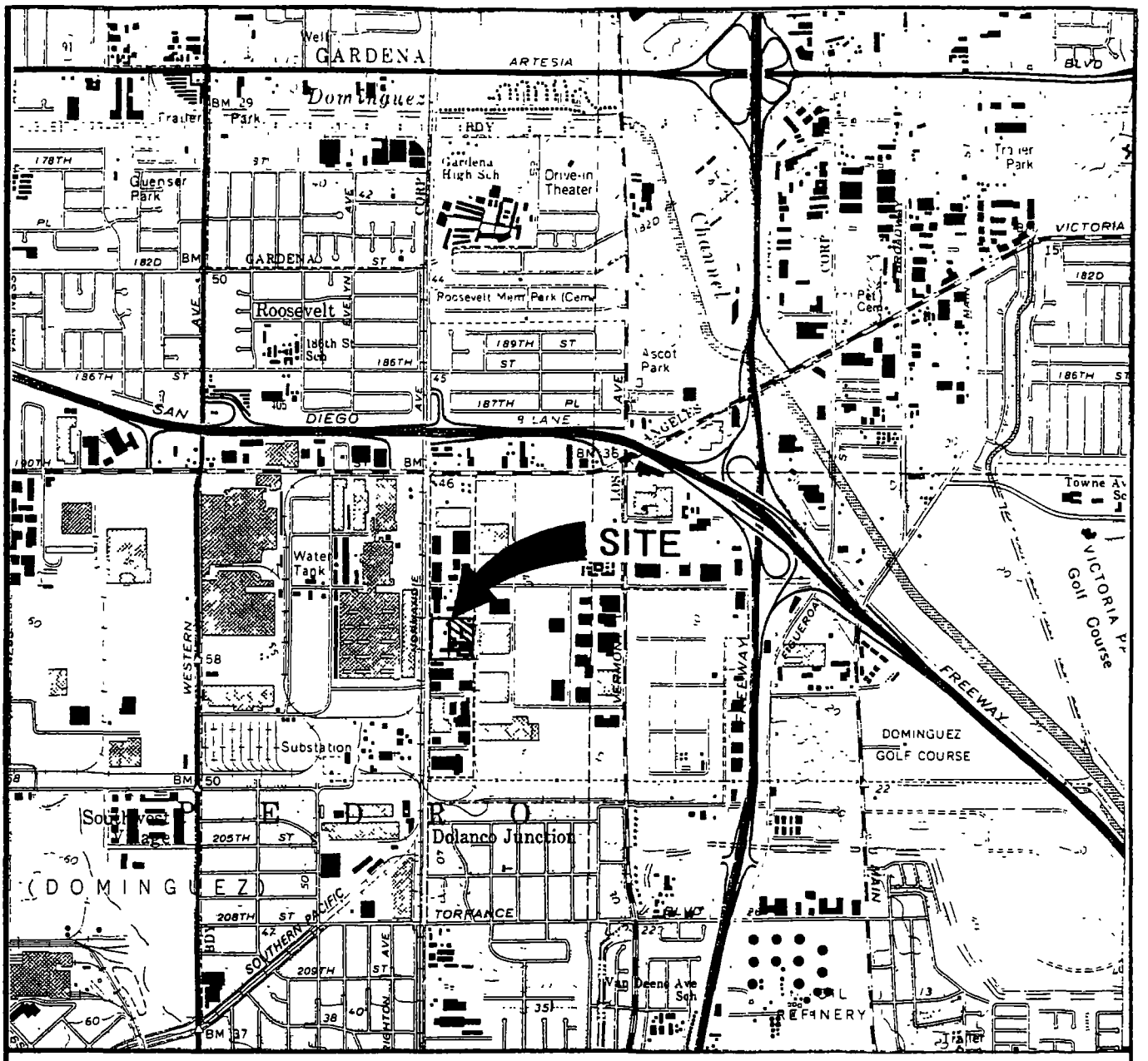
PACCAR 01947

**TABLE 3:**
**GROUND WATER MONITORING DATA**
**1206 WEST 196TH STREET, COUNTY OF LOS ANGELES**

| WELL I.D. | DATUM ELEVATION (AMSL) | DATE (M/D/Y) | DEPTH TO GROUND WATER (BGS) | GROUND WATER ELEVATION (AMSL) |
|---|---|---|---|---|
| MW-1 | 44.74 | 8/25/87 | 65.84 | -21.10 |
| | | 6/12/95 | 59.33 | -14.59 |
| MW-2 | 45.74 | 6/12/95 | 60.28 | -14.54 |
| MW-3 | 47.42 | 6/26/95 | 61.50 | -14.08 |
| MW-4 | 46.25 | 6/26/95 | 60.38 | -14.13 |

NOTES:

1) All distances in feet.
2) AMSL = Above Mean Sea Level.
3) BGS = Below Ground Surface.
4) Datum elevation is top of well box relative to a point at the southeast corner of the property arbitrarily assigned a value of 45 feet, which is the approximate elevation above mean sea level of the site.




NOTES:
1) BASE MAP FROM USGS 7.5 MINUTE TORRANCE QUADRANGLE (1965, PHOTOREVISED 1981)
2) ALL LOCATIONS ARE APPROXIMATE

NORTH

SCALE IN MILES
0 1/2 1
0 0.8 1.6
(SCALE IN KILOMETERS)

H2O SCIENCE, INC.
(714) 379-1157

SITE LOCATION MAP

LOCATION: TRICO INDUSTRIES PROPERTY / LOS ANGELES, CALIFORNIA

| | |
|---|---|
| CLIENT: MIGHTY USA | DRAWN: RRC |
| DATE: 03/27/95 | CHECKED: KDM |
| PROJ. NO.: 024-001 | FIGURE: 1 |
| DWG. NO.: A0338 | |

PACCAR 01949

# APPENDIX A: FIELD PROCEDURES

## APPENDIX A: TYPICAL FIELD PROCEDURES

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## A.1 DRILLING AND SOIL SAMPLING

1. Unless otherwise specified in the work plan, borings for ground water monitoring wells and vapor extraction wells are drilled with a truck mounted nominal 10 inch (25 cm) outside diameter hollow stem auger. The borings are drilled by a state certified drilling company.

2. All augers are steam cleaned at the site between each boring.

3. Soil descriptions, sample type and depth, and related drilling information, are recorded on a boring log by a Project Geologist under the direct supervision of a State Registered Geologist or Civil Engineer.

4. Unless otherwise specified in the work plan, soil samples are collected at depth intervals of five feet (1.5 m) using a split spoon modified California sampler.

5. The sampler is cleaned between sampling intervals using a brush and tap water, followed by a brush and alconox solution, a tap water rinse, and a deionized water rinse. The sampler is air dried, or with a paper towel, prior to sampling.

6. Soil samples are collected in 2-inch (5 cm) diameter, one and 4-inch (2.5 and 10 cm) long, stainless steel tubes. Two one-inch (2.5 cm), and four 4-inch (10 cm) tubes are generally enclosed in the sampler. Prior to initial use, the sample tubes are immersed in 3% sulfuric acid solution, and then cleaned, rinsed, and dried using the procedures outlined in item 5.

7. The sampler is driven into the soil using a 140 pound (63.5 kg) hammer dropping approximately 30 inches (0.76 m). The number of blows required to advance the sampler 18-inches (0.46 m) is recorded on the boring log for each 6-inch (15 cm) increment.

8. Following retrieval of the sampler, the second one-inch (2.5 cm) ring is removed for head space analysis (section A.4). The two lower 4-inch (10 cm) tubes are immediately removed from the sampler. The ends of the two 4-inch (10 cm) samples are covered with aluminum foil and capped with a PVC cap. Each sample is labeled with the sample number, sample depth, project name, date, project number, and company name. The sample number is also written on the PVC caps.

9. The samples are placed in ziplock bags and stored in an ice chest cooled to a temperature of approximately 40°F (5.5°C) using ice.

10. The samples are delivered to a state-certified hazardous waste testing laboratory within 48 hours of collection. Sample handling, transport, and delivery to the laboratory are documented using chain of custody procedures, including the use of Chain-of-Custody forms.

11. The soil remaining in the first one-inch (2.5 cm) ring, and two upper 4-inch (10 cm) tubes, is used to describe the soil lithology.

12. All uncontaminated soil excavated during the drilling of soil borings is stored at the site in DOT approved 55-gallon (208 litre) drums, and labelled as non-hazardous waste. The drums are removed from the site and disposed of at an appropriate landfill.

13. All contaminated soil excavated during the drilling of soil borings is stored at the site in DOT approved 55-gallon (208 litre) drums, and labeled as hazardous waste. The drums are removed from the site before 90 days by a licensed hazardous waste hauler, and disposed of at a regulated hazardous waste landfill or other disposal facility.

14. Uniform Hazardous Waste Manifests are prepared for the transportation and disposal of the contaminated soil.

## A.2 PRE-DRILL HAND AUGERING

1. The hand auger hole is drilled to a depth of approximately five feet (1.5 m) below the ground surface. The boring is drilled with a $3^1/_2$-inch (8.9 cm) diameter hand held auger by an employee of H2O Science. The auger hole is then enlarged to the diameter of the hollow stem augers using a post hole digger. The purpose of the hand auger/post hole boring is to determine the occurrence of subsurface piping, or other obstacles, before truck mounted rig drilling.

2. The auger bit is cleaned prior to drilling each hole using the procedures in Section A.1, item 5.

3. Soil descriptions, sample type and depth, and related information are recorded on the boring log by a H2O Science Project Geologist under the direct supervision of a State Registered Geologist or Civil Engineer.

## A.3 HAND AUGER BORINGS

1. Unless otherwise stated in the work plan, hand auger borings are advanced using a $2^1/_4$ inch (56 mm) diameter bucket-type hand auger. The borings are advanced by H2O Science personnel. Hand auger borings are advanced to a depth specified in the work plan.

2. The auger bit and rods are cleaned using the procedures specified in Section A.1, item 5.

3. Soil descriptions, sample type and depth, and related information, are recorded on a boring log by a Project Geologist employed by H2O Science, and under the direct supervision of a State Registered Geologist or Civil Engineer.

4. Soil samples are collected at depths specified in the work plan using a 6-inch (15 cm) drive sampler advanced with a 30 pound (14 kg) slide hammer.

5. Soil samples are collected in 2-inch (5 cm) diameter stainless steel tubes. Two 3-inch (75 mm) rings are generally enclosed in the sampler. Prior to initial use, the sample tubes are immersed in 3% sulfuric acid solution, and then cleaned, rinsed, and dried using the procedures outlined in section A.1, item 5.

6. Following retrieval of the sampler the tube contents are assessed for field lithological description. The tubes are removed from the sampler and the ends of the tube samples are covered with aluminum foil and capped with a PVC cap. Each sample is labeled with the sample number, sample depth, date, project number, and company name. The sample number is also hand written on the PVC caps.

7. In the event of poor sample recovery, consecutive drive samples will provide a split sample.

8. The analyte samples are placed in ziplock bags and stored in an ice chest cooled to a temperature of 40°F (5.5°C) using ice.

9. The samples are delivered to the laboratory within 48 hours of collection. Sample handling and delivery to the laboratory are documented using chain of custody procedures, including the use of chain-of-custody forms.

10. All uncontaminated soil excavated during the drilling of hand auger borings is stored at the site in DOT approved 55 gallon (208 litre) drums, and labelled as non-hazardous waste. The drums are removed from the site and disposed of at an appropriate landfill.

11. All contaminated soil excavated during the drilling of hand auger borings is stored at the site in DOT approved 55 gallon (208 litre) drums, and labeled as hazardous waste. The drums are removed from the site before 90 days by a licensed hazardous waste hauler, and disposed of at a regulated hazardous waste landfill or other disposal facility.

12. Uniform Hazardous Waste Manifests are prepared for the transportation and disposal of the contaminated soil.

## A.4 HEATED HEAD SPACE ANALYSIS

1. A 2-inch (5 cm) diameter, one-inch (2.5 cm) long, stainless steel sample ring is cut from the sample and immediately extruded into a plastic bag or mason jar, and the container sealed. Cohesionless samples, gravels, sands, and loose silts, are extruded directly into the mason jar. Cohesive samples, clays and compacted silts, are extruded into a plastic ziplock bag where they are crumbled under finger pressure. The contents of the bag are emptied into the mason jar and sealed.

2. The lid on the mason jar contains a quick connect for hook-up to an organic vapor analyzer (OVA), and a septum for extracting hypodermic samples.

3. The sample is placed into a hot water bath at a temperature of 156°F (70°C) for about 1/2 hour.

4. The sample is removed from the water bath and connected through a quick connect fitting to either a Foxboro 128 Organic Vapor Analyzer (OVA) with a flame-ionization detector (FID), or a Photovac Microtip IS-3000 with a photo-ionization detector (PID).

5. The maximum gauge reading is recorded as the concentration in PPM (volume to volume).

6. The results of the heated head space analysis are used only for field screening to determine which samples will be sent to the laboratory for analysis.

## A.5 WELL INSTALLATION

1. Unless otherwise specified in the work plan, ground water monitoring wells are constructed of flush jointed, threaded, 4-inch (10 cm) I.D. PVC. Slot openings, length, density and open area, are 0.02-inch (0.5 mm), one-inch (2.5 cm), 168 slots per foot (551 slots per meter), and 3.36 sq. in. per foot (0.007 $m^2$ per meter) respectively.

2. Monitoring wells are drilled to varying depths. The borehole may be partially back-filled, and a monitoring well set with varying lengths of screen and blank casing. The well heads are set approximately 4 to 6 inches (10 to 15 cm) below ground surface.

3. Unless otherwise specified in the work plan, the well casing is installed inside the hollow stem of the auger flight.

4. The annulus around the screened interval of the well is back-filled with a screen washed no. 3 Monterey sand. A filter over-pack of no. 2/12 Monterey sand is back-filled to a minimum depth of approximately two feet (0.61 m) above the screened interval.

5. Immediately above the sand pack, a minimum two foot (0.61 m) layer of bentonite chips is placed to act as a seal between the sand-pack and the overlying grout. The annulus above the filter is back-filled with either a cement grout containing between 5 and 10% bentonite, a bentonite grout, or hydrated bentonite chips.

6. A permanent mark is made at the top of the casing to indicate the top of casing measuring point.

7. A locking well plug is placed in the top of the casing, and locked with a padlock.

8. A traffic rated well box is placed above the well casing and set in concrete. The lid of the well box is set one-inch (2.5 cm) above the surrounding grade to prevent surface drainage from entering into the well box.

## A.6 WELL DEVELOPMENT

1. Unless otherwise stated in the work plan, immediately subsequent to the installation of a ground water monitoring well (MW) the well is surged using a rubber surge-block. The surge-block is suspended from the winch line of a truck mounted hollow stem auger rig.

2. Prior to well development, the water level in the MW is recorded using a conductance probe.

3. All items entering the wells; conductance probe, bailer, pumps, vacuum hose stinger are cleaned prior to use. The washing procedure is outlined in Section A.1, item 5.

4. The surge block is run to the base of the monitoring well approximately 10 times depending on the well depth and the number of screened sections. This surging process evacuates fines from the well, clears the well screen and allows the sand pack to settle more evenly within the well annulus.

5. Approximately 5 times the casing volume of ground water within the monitoring well is purged using one of the following methods:
   A) A vacuum truck:
   A vacuum hose with a stinger attached is lowered into the well. The vacuum pump is turned on "sucking" the ground water from the well. The process is repeated several times to ensure complete purging of the well. For wells deeper than 30 feet (9.1 m) a stinger with an air containment capability must be used to lift the ground water up the hose.
   B) An inert bailer:
   An inert bailer (either stainless steel or teflon), with diameter slightly less than the casing internal diameter, is lowered into the well. After the bailer has been completely immersed in the ground water, it is retracted. The process is repeated until complete purging of the well is accomplished.
   C) A PVC or stainless steel submersible pump:
   A PVC or stainless steel submersible pump is lowered into the well. When the pump rests just above the bottom of the well, it is turned on. Pumping episodes are repeated until complete purging of the well is accomplished. The pump is then removed from the well.

6. All free product and/or contaminated ground water purged from the monitoring wells during ground water sampling is stored at the site in DOT approved 55-gallon (208 litre) drums, and labeled as hazardous waste. The drums are removed from the site before 90 days by a licensed hazardous waste hauler, and disposed of at a regulated hazardous waste disposal facility.

7. Uniform Hazardous Waste Manifests are prepared for the transportation and disposal of the removed free product and/or purged contaminated ground water.

## A.7 WELL PURGING AND GROUND WATER SAMPLING

1. Prior to purging ground water monitoring wells the well head condition is inspected for evidence of tampering or damage. After removal of the well cover, the condition of the well casing head and cover are noted. Particular attention is focused on the presence of debris or bacterial build up in the well. Any bacterial slime or other debris in the well is removed prior to purging the free product. Care should be taken to ensure that no foreign object is dropped into the open well casing.

2. Prior to purging the wells, the water level in the well is recorded using a conductance probe. In addition, a clear bailer sample is taken and visually inspected for turbidity, biota content, the presence of free product and to assess possible dissolved phase contamination.

3. Ground water monitoring wells are purged of at least twice the water content of the casing and filter pack, or five well casing volumes, whichever is the greater volume. The following techniques can be employed for well purging:
   A) A vacuum truck:
   A vacuum hose with a stinger attached is lowered into the well. The vacuum pump is turned on "sucking" the ground water from the well. The process is repeated several times to ensure complete purging of the well. For wells deeper than 30 feet (9.1 m) a stinger with an air containment capability must be used to lift the ground water up the hose.
   B) An inert bailer:
   An inert bailer (either stainless steel or teflon), with diameter slightly less than the casing internal diameter, is lowered into the well. After the bailer has been completely immersed in the ground water, it is retracted. The process is repeated until complete purging of the well is accomplished.
   C) A stainless steel submersible pump:
   A stainless steel submersible pump is lowered into the well. When the pump rests just above the bottom of the well, it is turned on. Pumping episodes are repeated until complete purging of the well is accomplished. The pump is then removed from the well.
   D) A dedicated "in-well" pump or product skimmer:
   At some locations, a dedicated in well pump may have been installed in the monitoring well. In such instances, the pump is turned on upon arrival at the site. Pumping episodes are repeated until complete purging of the well is accomplished. The dedicated pump remains in the well after the well purging is complete.

4. The wells are allowed to recover to 80% of their original volume, or for a maximum period of 24 hours.

5. Any free product is purged from the monitoring wells, prior to undertaking sampling procedures.

6. The ground water samples are collected using a stainless steel bailer or disposable teflon bailer held by dedicated nylon line.

7. The water level and depth to the bottom of the well are measured using a conductance probe and a fiber measuring tape.

8. All items entering the well; tapes, conductance probe, bailers are cleaned prior to use and between sampling periods. The washing procedure is outlined in Section A.1, item 5.

9. Three samples are collected from each monitoring well and placed into EPA approved, zero head space, 40ml vials.

10. Each sample is labeled with the sample number, sample depth, project name, date, project number, and company name. The sample number is also hand written on the PVC caps and glass surface.

11. The samples are placed in a ziplock bag, and into an ice chest, and cooled to a temperature of approximately 40 degrees fahrenheit (5.5°C) following collection.

12. The samples are delivered to the laboratory within 48 hours of collection. Sample handling, transport, and delivery to the laboratory are documented using chain of custody procedures and appropriate Chain-of-Custody forms.

13. Any additional sample is used for field analysis; pH, D.O, temperature and conductivity. Hydrocarbon content may be analyzed using a Hanby Field Test Kit.

14. All free product and/or contaminated ground water purged from the monitoring wells during ground water sampling is stored at the site in DOT approved 55 gallon (208 litre) drums, and labeled as hazardous waste. The drums are removed from the site before 90 days by a licensed hazardous waste hauler, and disposed of at a regulated hazardous waste disposal facility.

15. Uniform Hazardous Waste Manifests are prepared for the transportation and disposal of the removed free product and/or purged contaminated ground water.

# APPENDIX B: BORING LOGS AND WELL CONSTRUCTION DETAILS FOR THIS INVESTIGATION

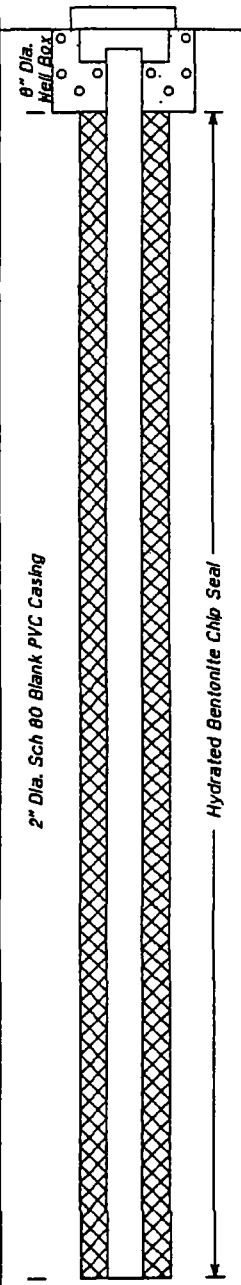
H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Monitoring Well MW-3

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *Approx. 45 feet AMSL* |
| DATE DRILLED: *06/28/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *HSA-8"* | TOTAL DEPTH: *69.5 Feet* |
| DRILLING COMPANY: *A & R* | WELL DEPTH: *67 Feet* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt surface. Dark brown silty clay, very soft, moderate plasticity, damp. |
| | | | | | Hand Auger and Post Hole to 5'. | | | |
| 5 | 1-1 | 51 | | 8.2 | No PHC Odor. | | SC | Brown clayey fine grained sand, trace silt, damp. |
| 10 | 2-1 2-2 | 40 | | 8.5 | | | | |
| 15 | 3-1 3-2 | 58 | | 32 | | | | |
| 20 | 4-1 4-2 | 45 | | 8.0 | | | CL ML | Brown silty clay with fine grained sand, low plasticity, stiff, dry. |
| 25 | 5-1 5-2 | 52 | | 63 | | | | |
| 30 | | | | | | | SP | Tan medium grained sand, trace silt, poorly graded, dry. |

WELL DIAGRAM






PACCAR 01961

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

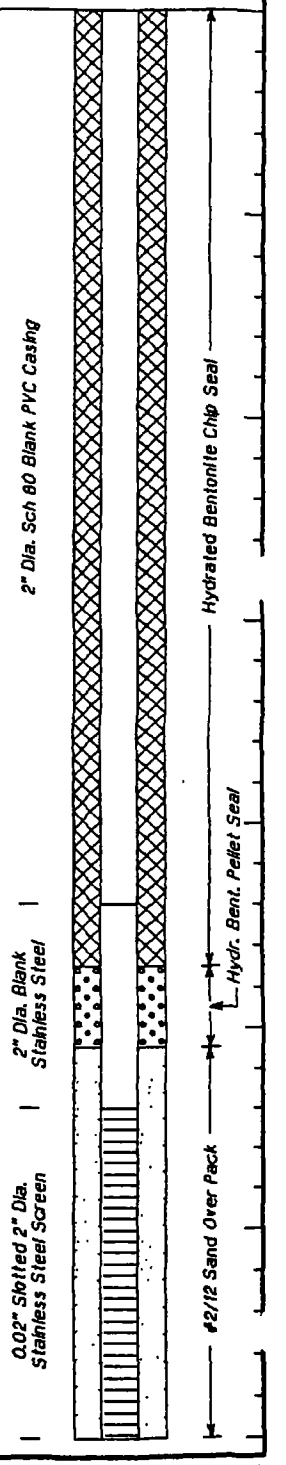
# Log of Monitoring Well MW-3

PROJECT: *Mighty USA*

LOCATION: *Los Angeles County, California*

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | 6-1<br>6-2 | 78 | | 6.0 | No PHC Odor. | | SP | Tan medium grained sand, trace silt, poorly graded, dry. |
| | | | | | | | ML | Brown silt, some very fine sand, trace clay, damp. |
| 35 | 7-1<br>7-2 | 86 | | 10.5 | | | | |
| | | | | | | | SP | Brown fine sand with silt, some shell fragments, dry. |
| 40 | 8-1<br>8-2 | 82 | | 7.0 | | | | |
| | 9-1<br>9-2 | 50 | | 8.2 | | | CL<br>ML | Brown silty clay, moderate plasticity, stiff, iron staining, damp. |
| | 10-1<br>10-2 | 37 | | 11.2 | | | | |
| 45 | 11-1<br>11-2 | 49 | | 13.6 | | | | |
| | 12-1<br>12-2 | 108 | | 5.5 | | | SP | Tan fine sand, trace silt, trace coarse shell fragments, dry. |
| | 13-1<br>13-2 | 86 | | 6.0 | | | | |
| 50 | 14-1<br>14-2 | 54 | | 12.6 | | | ML | Greenish-gray silt, with clay, iron staining, stiff, vertical burrows (.5 cm dia.), damp. |
| | 15-1<br>15-2 | 30 | | 7.8 | | | | Increased clay content. |
| | 16-1<br>16-2 | 45 | | 9.6 | | | SM | Green-gray silty fine sand, trace clay, damp. |
| 55 | 17-1<br>17-2 | 69 | | 5.0 | | | SC | Green-gray clayey sand, with silt, damp. |
| | 18-1<br>18-2 | 93 | | 13 | | | SM | Brown silty fine sand, trace clay, damp. |
| | 19-1<br>19-2 | 65 | | 5.0 | | | | |
| 60 | 20-1<br>20-2 | 103 | | 6.0 | | | | |
| | 21-1<br>21-2 | 64 | | 10.5 | | | SP | Gray-brown, medium sand, poorly graded, trace silt. |
| | 22-1<br>22-2 | 60 | | 5.0 | | | | Saturated @62 feet. |
| 65 | | | | | | | | |

WELL DIAGRAM






PACCAR 01962

H2O SCIENCE, INC.

Consulting Services in Environmental and Earth Sciences

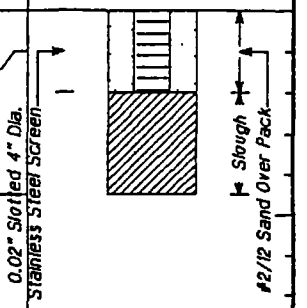
# Log of Monitoring Well MW-3

PROJECT: *Mighty USA*

LOCATION: *Los Angeles County, California*

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | 23-1<br>23-2 | 40 | | 80 | No PHC Odor. | | SP | Slightly coarser. |
| | | | | | | | ML | Clayey trace. |
| | | 24 | | | No Recovery. | | | Olive silt, very fine sand, stiff, damp. |
| | 24-1 | 31 | | 280 | | | | |
| 70 | | | | | TD=69.5 Feet<br>End of Boring | | | PHC = Petroium Hydrocarbon |
| 75 | | | | | | | | |
| 80 | | | | | | | | |
| 85 | | | | | | | | |
| 90 | | | | | | | | |
| 95 | | | | | | | | |
| 100 | | | | | | | | |

WELL DIAGRAM



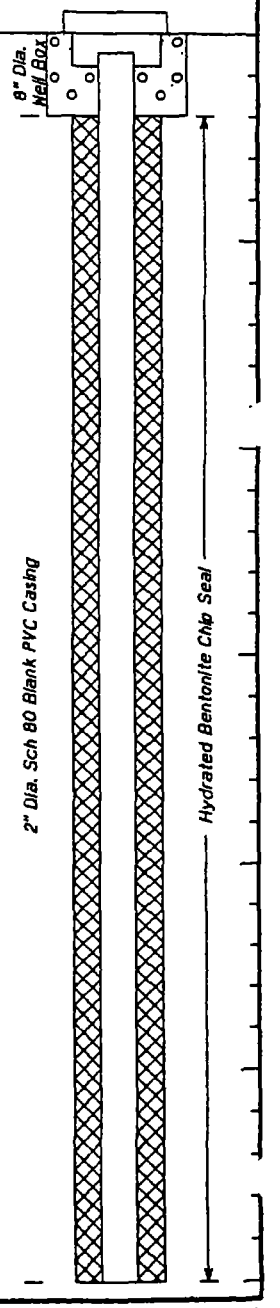
H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Monitoring Well MW-4

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *Approx. 45 feet AMSL* |
| DATE DRILLED: *08/27/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *HSA-8"* | TOTAL DEPTH: *88.5 Feet* |
| DRILLING COMPANY: *A & R* | WELL DEPTH: *85 Feet* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|
| | | | | | Hand Auger and Post Hole to 5'. | CH | Asphalt surface. Dark gray silty clay, soft, high plasticity, damp, 3" thick blue stained layer @8". |
| 5 | 1-1 1-2 | 19 | | 838 | Strong PHC Odor. | CL | Dark gray silty sandy clay, soft, moderate plasticity. |
| 10 | 2-1 2-2 | 49 | | 8.0 | No PHC Odor. | SP | Brown very fine sand with silt, poorly graded, trace clay, damp, dry. |
| 15 | 3-1 3-2 | 43 | | 7.0 | | CL | Brown silty clay with sand, stiff, moderate plasticity, damp. |
| 20 | 4-1 4-2 | 43 | | 8.0 | | ML | Brown sandy silt, trace clay. |
| 25 | 5-1 5-2 | 85 | | 4.0 | | | Vertical burrows (up to 0.5 cm dia.), infilled, discontinuous fractures. |
| 30 | | | | | | SM | Brown silty very fine sand, trace clay, poorly graded, iron staining. |

WELL DIAGRAM



H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

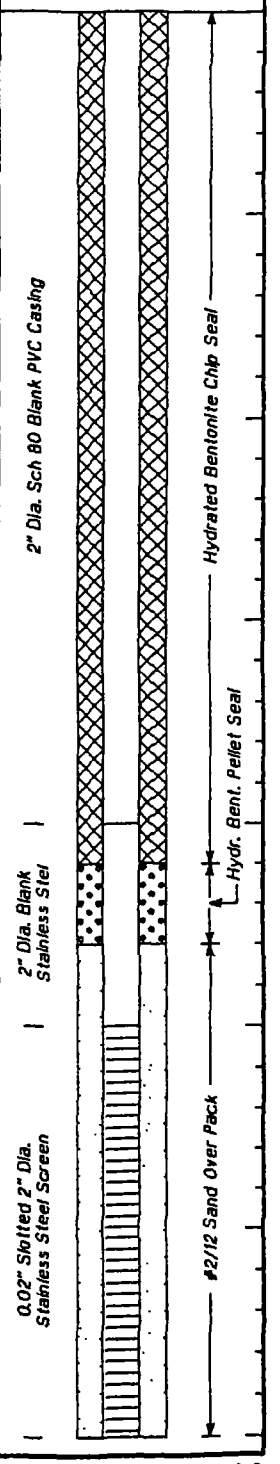
# Log of Monitoring Well MW-4

PROJECT: *Mighty USA*

LOCATION: *Los Angeles County, California*

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | 6-1<br>6-2 | 50 | | 3.2 | No PHC Odor. | | SM | Brown silty very fine sand, trace clay, poorly graded, iron staining. |
| | | | | | | | SP | Brown fine sand with silt, trace clay, poorly graded. |
| 35 | 7-1<br>7-2 | 54 | | 1.3 | | | | |
| | | | | | | | SM | Reddish-brown silty medium grained sand, trace shell fragments, trace clay, damp. |
| 40 | 8-1<br>8-2 | 48 | | 0.8 | | | | |
| 45 | 9-1<br>9-2 | 81 | | 0.5 | | | | |
| | | | | | | | CL | Brown silty clay, moderate plasticity, stiff, damp. |
| | 10-1<br>10-2 | 54 | | 1.0 | | | ML | Gray-green silt, with clay, stiff, iron staining. |
| | 11-1<br>11-2 | 87 | | 3.0 | | | | Color change to redddish-brown. |
| | | | | | | | CL | Gray-green silty clay, iron staining. |
| 50 | 12-1<br>12-2 | 54 | | 3.7 | | | ML | Gray-green clayey silt, vertical burrows, iron staining. |
| | 13-1<br>13-2 | 82 | | 6.2 | | | | Light gray clayey silt, moderate plasticity, stiff, damp. |
| | 14-1<br>14-2 | 47 | | 0.4 | | | SP | Olive-gray very fine sand with silt, trace clay, iron staining, damp. |
| 55 | 15-1<br>15-2 | 98 | | 2.0 | | | | Color change to olive-brown. |
| | 16-1<br>16-2 | 50 | | 2.5 | | | | Increased clay content (up to 15%). |
| | 17-1<br>17-2 | 109 | | 0.7 | | | | Increased clay content (up to 30%). |
| | | | | | | | SM | Olive silty very fine sand, trace clay. |
| 60 | 18-1<br>18-2 | 52 | | 3.0 | | | SP | Gray-brown fine sand with silt, trace clay, saturated @60 feet BGS. |
| | 19-1<br>19-2 | 120 | | 24 | | | | |
| | 20-1<br>20-2 | 55 | | 41 | | | | |
| 65 | | | | | | | ML | Dark olive clayey silt, soft, wet. |

WELL DIAGRAM



H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Monitoring Well MW-4

PROJECT: *Mighty USA*

LOCATION: *Los Angeles County, California*

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | WELL DIAGRAM |
|---|---|---|---|---|---|---|---|---|---|
| | 21-1<br>21-2 | 58 | | 2.3 | No PHC Odor. | | ML | Laminations, some sand. | Slough |
| | | | | | TD=86.5 Feet<br>End of Boring | | | PHC = Petroium Hydrocarbon | |
| 70 | | | | | | | | | |
| 75 | | | | | | | | | |
| 80 | | | | | | | | | |
| 85 | | | | | | | | | |
| 90 | | | | | | | | | |
| 95 | | | | | | | | | |
| 100 | | | | | | | | | |



PACCAR 01966

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-1

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *3.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | F | Concrete. |
| | | | | | | | | Sand/pea gravel fill. |
| | HA-1-1 | | X | 5.0 | No PHC odor. | | | |
| | | | | | | | | End of Boring |
| 5 | | | | | | | | PHC= Petroleum Hydrocarbon |
| | | | | | | | | Refusal @3.5 feet |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-2

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. Dark brown, slightly reddish, clay, soft, high plasticity, damp, trace silt. |
| | HA-2-1 | | ☒ | 6.7 | No PHC odor. | | | |
| 5 | | | | | | | CL | Light brown clay, with fine sand, stiff, moderate plasticity, damp. |
| | HA-2-2 | | ☒ | 5.0 | | | | |
| | | | | | | | SC CL | Light brown clayey fine grained sand, damp. |
| | HA-2-3 | | ☒ | 5.2 | TD=9.5 Feet | | | |
| 10 | | | | | | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01968

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-3

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. Dark brown clay, very soft, high plasticity, damp, some black discoloration. Some fine sand. |
| | HA-2-1 | | ☒ | 5.0 | No PHC odor. | | | |
| 5 | | | | | | | | |
| | HA-2-2 | | ☒ | 5.2 | | | CL | Light brown sandy clay, moderate plasticity, stiff, damp. |
| | HA-2-3 | | ☒ | 3.8 | | | SC CL | Light brown clayey fine grained sand, slightly damp. |
| 10 | | | | | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01969

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-4

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Asphalt. |
| | | | | | | | CH | Dark gray clay, trace sand, stiff, high plasticity, damp, abundant mica flakes. |
| | HA-4-1 | | ☒ | 5.1 | No PHC odor. | | | Color change to brown. |
| 5 | | | | | | | CL | Light brown sandy clay, moderate plasticity, stiff, dry. |
| | HA-4-2 | | ☒ | 4.8 | | | | |
| | | | | | | | SC CL | Light brown clayey fine grained sand, damp. |
| | HA-4-3 | | ☒ | 8.4 | TD=9.5 Feet | | | |
| 10 | | | | | | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-5

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Asphalt. |
| | | | | | | | CL ML | Olive gray silty clay with sand, stiff, moderate plasticity, damp. |
| | HA-5-1 | | ☒ | 5.1 | No PHC odor. | | | Color change to light brown. |
| 5 | | | | | | | SC CL | Light brown clayey fine grained sand with silt, slightly damp. |
| | HA-5-2 | | ☒ | 5.8 | | | CL SC | Gray-green sandy clay with silt, stiff, moderate plasticity, damp. |
| | HA-5-3 | | ☒ | 4.3 | TD=9.5 Feet | | | |
| 10 | | | | | | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H20 SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-6

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/19/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Asphalt. |
| | | | | | | | CL ML | Olive-gray silty clay with sand, stiff, moderate plasticity, damp. |
| | HA-6-1 | | ☒ | 4.2 | No PHC odor. | | | Color change to light brown. |
| 5 | | | | | | | SC CL | Light brown clayey fine grained sand with silt. |
| | HA-6-2 | | ☒ | 11.2 | | | CL SC | Gray-green sandy clay with silt, stiff, moderate plasticity, damp (up to 50% clay). |
| | HA-6-3 | | ☒ | 10.3 | | | | |
| 10 | | | | | TD=9.5 Feet | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-7

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt. Dark brown silty clay, soft, moderate plasticity, damp. |
| | HA-7-1 | | ☒ | 11.8 | No PHC odor. | | CH ML | Brown silty, clay, stiff, hight plasticity, damp. |
| 5 | | | | | | | CL ML | Light brown silty clay with sand, soft, moderate plasticity, damp. |
| | HA-7-2 | | ☒ | 10.6 | | | | |
| | HA-7-3 | | ☒ | 52 | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-8

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Concrete. |
| | | | | | | | CL | Dark gray silty clay, soft, moderate plasticity, damp. |
| | HA-8-1 | | X | 42 | No PHC odor. | | CH | Dark gray clay with silt, soft, high plasticity, damp. |
| 5 | | | | | | | CL ML | Light brown silty clay with fine sand, soft, moderate plasticity, damp. |
| | HA-8-2 | | X | 58 | | | | |
| | HA-8-3 | | X | 18.9 | TD=9.5 Feet | | | End of Boring |
| 10 | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-9

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt. Dark gray silty clay, soft, moderate plasticity, damp. |
| | HA-9-1 | | ☒ | 9.0 | No PHC odor. | | CH | Dark gray-brown clay with silt, slightly stiff, high plasticity, 10% stiff, damp. |
| 5 | HA-9-2 | | ☒ | 7.2 | | | CL ML | Light brown silty clay with fine sand, soft, moderate plasticity, damp. |
| | HA-9-3 | | ☒ | 8.8 | TD=9.5 Feet | | ML | Light brown, silt, trace clay, damp. |
| 10 | | | | | | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-10

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Concrete. Dark brown sandy clay with silt, soft, low plasticity, damp. |
| | HA-10-1 | | ☒ | 4.7 | No PHC odor. | | CH | Dark brown clay with silt, stiff, high plasticity, damp. |
| 5 | | | | | | | CL ML | Light brown silty clay with fine sand, stiff, moderate plasticity, damp. |
| | HA-10-2 | | ☒ | 8.9 | | | | |
| | HA-10-3 | | ☒ | 7.3 | TD=9.5 Feet | | ML | Light brown silt, some very fine sand, trace clay, slightly damp. |
| 10 | | | | | | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-11

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. |
| | | | | | | | | Dark gray-brown clay with fine sand, some gravel, soft, high plasticity, damp. |
| | | | | | | | CL | Dark olive-gray silty clay, soft, moderate plasticity, damp. |
| | HA-11-1 | | ☒ | 31 | Strong Solvent odor. | | | |
| | | | | | | | | Increased stiffness. |
| 5 | | | | | Slight Sovent Odor. | | | |
| | | | | | | | ML | Olive gray silt with clay, dry. |
| | HA-11-2 | | ☒ | 214 | | | | |
| | | | | | Moderate Solvent Odor. | | | |
| | HA-11-3 | | ☒ | 275 | | | | |
| 10 | | | | | TD=9.5 Feet | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H20 SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-12

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/20/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. Dark olive clay with silt, soft, high plasticity, damp. |
| | HA-12-1 | | ☒ | 1900 | Strong Solvent Odor. | | | |
| 5 | | | | | | | ML | Olive gray silt with clay, dry. |
| | HA-12-2 | | ☒ | 1300 | | | | |
| | HA-12-3 | | ☒ | 800 | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01978

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-13

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. Dark olive clay with silt, soft, high plasticity, damp. |
| | HA-13-1 | | ☒ | 57 | Strong Solvent Odor. | | CL SC | Brown silty sandy clay, soft, low plasticity, damp. |
| 5 | | | | | No PHC odor. | | | |
| | HA-13-2 | | ☒ | 14 | | | | |
| | HA-13-3 | | ☒ | 15 | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H20 SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-14

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *6 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CH | Asphalt. Mottled dark gray and brown clay, trace silt and fine sand, soft, high plasticity, damp. |
| | HA-14- | | ☒ | 9.0 | No PHC odor. | | | |
| 5 | | | | | | | | |
| | | | | | TD=6.0 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon<br>Refusal @6 feet. |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01980

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-15

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt. Dark brown silty clay, very soft, moderate plasticity, damp. |
| | HA-15- | | ☒ | 6 | No PHC odor. | | | Lighter color and stiffer. |
| 5 | | | | | | | ML | Light brown clayey silt, stiff, damp. |
| | HA-15-2 | | ☒ | 8 | | | | |
| | HA-15-3 | | ☒ | 4.5 | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 10 | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-16

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *08/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt. |
| | | | | | | | | Dark brown silty clay, very soft, moderate plasticity, damp. |
| | HA-16-1 | | ☒ | 8.0 | No PHC odor. | | | Lighter color and stiffer. |
| | | | | | | | ML | Light brown clayey silt, stiff, damp. |
| 5 | | | | | | | | |
| | HA-16-2 | | ☒ | 10 | | | | |
| | HA-16-3 | | ☒ | 8.0 | | | | |
| 10 | | | | | TD=9.5 Feet | | | End of Boring |
| | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01982

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-17

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Asphalt. |
| | | | | | | | CL | Dark brown silty clay, very soft, moderate plasticity, damp. |
| | HA-17- | | ☒ | 6.0 | No PHC odor. | | | Brown silty clay, stiff, moderate plasticity, damp. |
| 5 | | | | | | | ML | Brown clayey silt, stiff, slightly damp. |
| | HA-17-2 | | ☒ | 5.0 | | | | |
| | HA-17-3 | | ☒ | 6.0 | | | | |
| 10 | | | | | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-18

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H20 Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Asphalt. |
| | | | | | | | CL | Dark brown silty clay, very soft, moderate plasticity, damp. |
| | HA-18-1 | | ☒ | 4.0 | No PHC odor. | | | Brown silty clay, stiff, moderate plasticity, damp. |
| 5 | | | | | | | ML | Brown clayey silt, stiff, slightly damp. |
| | HA-18-2 | | ☒ | 8.0 | | | | |
| | HA-18-3 | | ☒ | 12 | | | | |
| 10 | | | | | TD=9.5 Feet | | | End of Boring<br>PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |



PACCAR 01984

H2O SCIENCE, INC.
Consulting Services in Environmental and Earth Sciences

# Log of Boring HA-19

| | |
|---|---|
| PROJECT: *Mighty USA* | LOCATION: *Los Angeles County, California* |
| PROJECT NO.: *024-001* | SURFACE ELEVATION: *NA* |
| DATE DRILLED: *06/21/95* | INITIAL WATER LEVEL: *NA* |
| GEOLOGIST: *KDM* | STATIC WATER LEVEL: *NA* |
| DRILLING METHOD: *Hand Auger* | TOTAL DEPTH: *9.5 Feet* |
| DRILLING COMPANY: *H2O Science Inc.* | WELL DEPTH: *NA* |

| DEPTH feet | SAMPLE NO. | BLOWS/FT. | SAMPLE TYPE | PID (ppm) | REMARKS | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | CL | Asphalt. Dark gray-brown silty clay, soft, moderate plasticity, damp. |
| | HA-19- | | ☒ | 8.0 | No PHC odor. | | | Color change to brown, stiff. |
| 5 | HA-19-2 | | ☒ | 5.0 | | | | |
| | | | | | | | ML | Light brown clayey silt, stiff, damp. |
| | HA-19-3 | | ☒ | 5.0 | TD=9.5 Feet | | | End of Boring |
| 10 | | | | | | | | PHC= Petroleum Hydrocarbon |
| 15 | | | | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |

# APPENDIX C.1: LABORATORY ANALYTICAL RESULTS - SOIL SAMPLES

BC LABORATORIES



# Organochlorine Pesticides and PCB's
(EPA Method 8080)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/30/95
Date Received: 06/21/95
Laboratory No.: 95-07559-1

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-1 HA-1-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Aldrin | None Detected | mg/kg | 0.0002 |
| alpha-BHC | None Detected | mg/kg | 0.0002 |
| beta-BHC | None Detected | mg/kg | 0.0002 |
| delta-BHC | None Detected | mg/kg | 0.0002 |
| gamma-BHC | None Detected | mg/kg | 0.0002 |
| Chlordane | None Detected | mg/kg | 0.01 |
| 4,4'-DDD | None Detected | mg/kg | 0.0002 |
| 4,4'-DDE | None Detected | mg/kg | 0.0002 |
| 4,4'-DDT | None Detected | mg/kg | 0.0002 |
| Dieldrin | None Detected | mg/kg | 0.0002 |
| Endosulfan I | None Detected | mg/kg | 0.0002 |
| Endosulfan II | None Detected | mg/kg | 0.0002 |
| Endosulfan Sulfate | None Detected | mg/kg | 0.0002 |
| Endrin | None Detected | mg/kg | 0.0002 |
| Endrin Aldehyde | None Detected | mg/kg | 0.0005 |
| Heptachlor | None Detected | mg/kg | 0.0002 |
| Heptachlor Epoxide | None Detected | mg/kg | 0.0002 |
| Methoxychlor | None Detected | mg/kg | 0.0002 |
| Toxaphene | None Detected | mg/kg | 0.01 |
| PCB-1016 | None Detected | mg/kg | 0.01 |
| PCB-1221 | None Detected | mg/kg | 0.01 |
| PCB-1232 | None Detected | mg/kg | 0.01 |
| PCB-1242 | None Detected | mg/kg | 0.01 |
| PCB-1248 | None Detected | mg/kg | 0.01 |
| PCB-1254 | None Detected | mg/kg | 0.01 |
| PCB-1260 | None Detected | mg/kg | 0.01 |
| Total PCB's (Summation) | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| TCMX | 78. | 60-140 |
| Dibutyl chlorendate | 71. | 60-140 |

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-1

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-1 HA-1-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89. | 70-121 |
| Toluene-d8 | 107. | 81-117 |
| Bromofluorobenzene | 107. | 74-121 |

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-1

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-1 HA-1-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-2

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-2 HA-2-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | 0.0096 | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.032 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | 0.0086 | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.0066 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 90. | 70-121 |
| Toluene-d8 | 107. | 81-117 |
| Bromofluorobenzene | 105. | 74-121 |

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-2

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-2
HA-2-1

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Stuart G. Buttram
Department Supervisor

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1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-3

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-3 HA-3-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94. | 70-121 |
| Toluene-d8 | 108. | 81-117 |
| Bromofluorobenzene | 101. | 74-121 |

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-3

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-3 HA-3-1

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Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-4

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-4 HA-4-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94. | 70-121 |
| Toluene-d8 | 108. | 81-117 |
| Bromofluorobenzene | 108. | 74-121 |

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-4

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-4
HA-4-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY PROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-5

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-5 HA-5-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.0097 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.0095 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 85. | 70-121 |
| Toluene-d8 | 106. | 81-117 |
| Bromofluorobenzene | 103. | 74-121 |

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-5

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-5
HA-5-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-6

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-6 HA-6-1

Sample Matrix: Soil

Date Collected: 06/19/95
Date Extracted: 06/23/95
Date Analyzed: 06/23/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 90. | 70-121 |
| Toluene-d8 | 108. | 81-117 |
| Bromofluorobenzene | 107. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
Attn: KAY FROMMETT 714-447-6868

Date Reported: 06/26/95
Date Received: 06/21/95
Laboratory No.: 95-07559-6

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4261 CLIENT PROJ. #024-01: HA-6
HA-6-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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4261

# CHAIN OF CUSTODY RECORD

Date 6-19-95 Page 2 of 2

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379-1157
FAX (714) 379-1180
ENVIRONMENTAL AND ENGINEERING CONSULTANTS.

Deliver To: Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No.: 024-01 Task: 9
Sampled By: KDM No. Of Samples 15 total.

| | BORING/WELL | SAMPLE I.D. | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | HA-5 | HA-5-3 | 9' | soil | 6-19-95 | FM | drive | 2"x4" | no | 4°C | | | | | | | | | | | | | | | | | | | | | X |
| 14 | HA-6 | HA-6-1 | 3' | ↓ | ↓ | ↓ | sampler | st.st. | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 15 | HA↓ | HA6-2 | 6' | ↓ | ↓ | ↓ | ↓ | tube | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By: [signature] Name: KAY FROMMELT | Date/Time: 6/20/95 1:15 p No. of Samples: 15 | Received By: [signature] Name: Rene Montanez | Date/Time: 6/20-1315 No. of Samples: 15 |
| Relinquished By: Name: | Date/Time: No. of Samples: | Received By: Name: | Date/Time: No. of Samples: |
| Relinquished By: Name: | Date/Time: No. of Samples: | Received By: Name: | Date/Time: No. of Samples: |

Remarks

93791160;#16/16

7- 5-95 ; 17:48 ;FULL. ENVIR. LAB. →

SENT BY:

PACCAR 02000

4261

# CHAIN OF CUSTODY RECORD

Date 6-19-95 Page 1 of 2

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No.: 024-01 Task: 9
Sampled By: KDM No Of Samples: 15 total.

| | BORING/WELL | SAMPLE I.D. | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | 8080 | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HA-1 | HA-1-1 | 3' | soil | 6-19-95 | AM | drive | 2"x4" | no | 4°C | | | | | | | | | | X | | | | | X | | | | | | |
| 2 | HA-2 | HA-2-1 | 3' | ↓ | ↓ | ↓ | sampler | st. st. | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 3 | ↓ | HA-2-2 | 6' | ↓ | ↓ | ↓ | ↓ | ring | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 4 | ↓ | HA-2-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 5 | HA-3 | HA-3-1 | 3 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 6 | ↓ | HA-3-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 7 | ↓ | HA-3-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 8 | HA-4 | HA-4-1 | 3' | ↓ | ↓ | PM | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 9 | ↓ | HA-4-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 10 | ↓ | HA-4-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 11 | HA-5 | HA-5-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 12 | ↓ | HA-5-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommelt<br>Name: KAY FROMMELT | Date/Time: 6/20/95 1'30<br>No. of Samples: 15 | Received By: [signature]<br>Name: RENE A MONTANEZ | Date/Time: 6/20 - 1315<br>No. of Samples: 15 |
| Relinquished By<br>Name | Date/Time:<br>No. of Samples: | Received By:<br>Name: | Date/Time<br>No. of Samples: |
| Relinquished By<br>Name: | Date/Time:<br>No. of Samples: | Received By:<br>Name: | Date/Time.<br>No. of Samples: |

Remarks

93791160;#15/16

7- 5-95 ; 17:47 ;FULL. ENVIR. LAB.

SENT BY:

PACCAR 02001

**Fullerton**
**Environmental**
**Laboratory**

## LABORATORY REPORT

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/29/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4268<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Analyzed:** | 06/20/95<br>06/21/95<br>06/26/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**ANALYSES REQUESTED:**

1. EPA 8240 Volatile Organics by GC/MS

Approval: Beth Riley
Laboratory Manager
Beth Riley

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX** Printed on Recycled Paper

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-1

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-7-3

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88. | 70-121 |
| Toluene-d8 | 107. | 81-117 |
| Bromofluorobenzene | 106. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-1

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-7-3

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-2

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-8-2

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88. | 70-121 |
| Toluene-d8 | 108. | 81-117 |
| Bromofluorobenzene | 107. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-2

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-8-2

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-3

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-9-1

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.010 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.0054 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 86. | 70-121 |
| Toluene-d8 | 106. | 81-117 |
| Bromofluorobenzene | 107. | 74-121 |

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BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-3

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-9-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-4

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-10-1

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.011 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.0087 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 90. | 70-121 |
| Toluene-d8 | 104. | 81-117 |
| Bromofluorobenzene | 105. | 74-121 |

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BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-4

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-10-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-5

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-11-3

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | 0.011 | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | 0.47 | mg/kg | 0.03 |
| 1,3-Dichlorobenzene | 0.046 | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | 0.36 | mg/kg | 0.03 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | 0.018 | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93. | 70-121 |
| Toluene-d8 | 106. | 81-117 |
| Bromofluorobenzene | 112. | 74-121 |

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BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-5

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-11-3

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-6

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-12-1

Sample Matrix: Soil

Date Collected: 06/20/95
Date Extracted: 06/26/95
Date Analyzed: 06/26/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 2. |
| Bromodichloromethane | None Detected | mg/kg | 2. |
| Bromoform | None Detected | mg/kg | 2. |
| Bromomethane | None Detected | mg/kg | 2. |
| Carbon tetrachloride | None Detected | mg/kg | 2. |
| Chlorobenzene | None Detected | mg/kg | 2. |
| Chloroethane | None Detected | mg/kg | 4. |
| Chloroform | None Detected | mg/kg | 2. |
| Chloromethane | None Detected | mg/kg | 4. |
| Dibromochloromethane | None Detected | mg/kg | 2. |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 2. |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 2. |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 2. |
| 1,1-Dichloroethane | None Detected | mg/kg | 2. |
| 1,2-Dichloroethane | None Detected | mg/kg | 2. |
| 1,1-Dichloroethene | None Detected | mg/kg | 2. |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 2. |
| 1,2-Dichloropropane | None Detected | mg/kg | 2. |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 2. |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 2. |
| Ethyl benzene | 13. | mg/kg | 2. |
| Methylene Chloride | None Detected | mg/kg | 2. |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 2. |
| Tetrachloroethene | None Detected | mg/kg | 2. |
| Toluene | 7.3 | mg/kg | 2. |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 2. |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 2. |
| Trichloroethene | None Detected | mg/kg | 2. |
| Trichlorofluoromethane | None Detected | mg/kg | 2. |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 2. |
| Vinyl Chloride | None Detected | mg/kg | 2. |
| Xylenes | 210. | mg/kg | 4. |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88. | 70-121 |
| Toluene-d8 | 108. | 81-117 |
| Bromofluorobenzene | 118. | 74-121 |

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BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/27/95
Date Received: 06/22/95
Laboratory No.: 95-07611-6

Sample Description: H20 SCIENCE MIGHTY/TRICO FEL PROJ. #4268: HA-12-1

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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4100 Atlas Ct · Bakersfield, CA 93308 · (805) 327-4911 · FAX (805) 327-1918

**Fullerton Environmental Laboratory**
1511 E. Orangethorpe Ave.
Fullerton, CA 92631
Phone (714) 447-6868 FAX (714) 447-6800

7611 Pref

# Chain-Of-Custody Record

Client: H2O Science
Date: 6-21-95
Project Name: Mighty/Trico
Client Project #:
Project Address:
Project Contact:

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal 5 day
- ☐ Mobile Lab

FEL Project #: 4268
Page 1 of 1

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested: TCLP (624/8240)

| | Sample ID | Sample Location | Date | Time | Laboratory Sample Number | Sample Matrix: Soil (S), Sludge (SL), Aqueous (A) | TCLP (624/8240) | | | | | | | | Number of Containers | Container/Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HA-7-3 | | 6/20 | | | S | X | | | | | | | | | |
| 2 | HA-8-2 | | ↓ | | | ↓ | X | | | | | | | | | |
| 3 | HA-9-1 | | ↓ | | | ↓ | X | | | | | | | | | |
| 4 | HA-10-1 | | ↓ | | | ↓ | X | | | | | | | | | |
| 5 | HA-11-3 | | ↓ | | | ↓ | X | | | | | | | | | |
| 6 | HA-12-1 | | ✓ | | | ✓ | X | | | | | | | | | |

| | | | |
|---|---|---|---|
| ❶ Relinquished by (signature): R. Riley | Date: 6-21-95 | ❷ Received by (signature): Jerry Moon | Date: 6-22-95 |
| Company: FEL | Time: 1500 | Company: B.C Labs | Time: 1310 |
| ❸ Relinquished by (signature): Jerry Moon | Date: 6-22-95 | ❹ Received by Laboratory (signature): [illegible] | Date: 6-22-95 |
| Company: BC Labs | Time: 1911 | Company: BC Labs | Time: 7:20 |

Total Number of Containers:

Additional Comments:

PACCAR 02015

BC LABORATORIES INC. SAMPLE RECEIPT FORM - Rev. 4/95

LAB NUMBER: 95-7611 | TIME RECEIVED: 7:20 | DATE RECEIVED: 6-22-95 | RECEIVED BY: [illegible]

## SHIPPING SPECIFICATIONS

Federal Express ☐ UPS ☐ Hand Delivery ☐

BC Lab Field Service ☒ Other ☐ (Specify) _____

## SHIPPING CONTAINER

Ice Chest ☒ Box ☐

None ☐ Other ☐ (Specify) _____

## SAMPLE CONDITION

Temperature 2°C Ice ☒ Blue Ice ☐ None ☐ If temperature is not between 2 and 6 C please explain: _____

Custody Seals: Ice Chest ☐ Containers ☐ None ☒

All samples received? Yes ☒ No ☐ All samples intact? Yes ☒ No ☐ Description match COC? Yes ☒ No ☐

## SAMPLE CONTAINERS

| Sample # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QT PE UNP | | | | | | | | | | | | | | | | | | | | | | | | |
| PT PE UNP | | | | | | | | | | | | | | | | | | | | | | | | |
| QT INORGANIC METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| PT INORGANIC METALS | | | | | | | | | | | | | | | | | | | | | | | | |
| CN | | | | | | | | | | | | | | | | | | | | | | | | |
| N FORMS | | | | | | | | | | | | | | | | | | | | | | | | |
| SULFIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| $NO_2/NO_3$ | | | | | | | | | | | | | | | | | | | | | | | | |
| TOC | | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | |
| COD | | | | | | | | | | | | | | | | | | | | | | | | |
| PHENOL | | | | | | | | | | | | | | | | | | | | | | | | |
| TRIP BLANK | | | | | | | | | | | | | | | | | | | | | | | | |
| VOA VIAL | | | | | | | | | | | | | | | | | | | | | | | | |
| VOA SET | | | | | | | | | | | | | | | | | | | | | | | | |
| OIL & GREASE | | | | | | | | | | | | | | | | | | | | | | | | |
| ODOR | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | | | | | | | | | | | | | | | |
| BACT | | | | | | | | | | | | | | | | | | | | | | | | |
| 504 | | | | | | | | | | | | | | | | | | | | | | | | |
| 507 | | | | | | | | | | | | | | | | | | | | | | | | |
| 508/608/8080 | | | | | | | | | | | | | | | | | | | | | | | | |
| 515.1/8150 | | | | | | | | | | | | | | | | | | | | | | | | |
| 525/625/8270 | | | | | | | | | | | | | | | | | | | | | | | | |
| 547 | | | | | | | | | | | | | | | | | | | | | | | | |
| 531.1 | | | | | | | | | | | | | | | | | | | | | | | | |
| 548 | | | | | | | | | | | | | | | | | | | | | | | | |
| 549 | | | | | | | | | | | | | | | | | | | | | | | | |
| QA/QC | | | | | | | | | | | | | | | | | | | | | | | | |
| QT AMBER | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 OZ. JAR | | | | | | | | | | | | | | | | | | | | | | | | |
| SOIL SLEEVE | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | | | |

Comments: _____

Completed by: [signature]

[F:\WP60\DATA\DOCS\DIANEE\FORMS\SAMREC.FRM]

PACCAR 02016

4268

# CHAIN OF CUSTODY RECORD

Date: 6-20-95 Page 1 of 2

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX. (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name. Mighty/Trico
Project No.: 024-001 Task: 9
Sampled By: KDM No Of Samples 19 Total.

| | BORING/WELL | SAMPLE I.D. | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HA-6 | HA-6-3 | 9' | SOIL | 6-20-95 | AM | drive | 2" x 4" | | | | | | | | | | | | | | | | | | | | | | | X |
| 2 | HA-7 | HA-7-1 | 3 | ↓ | ↓ | ↓ | sampler | st. st. | | | | | | | | | | | | | | | | | | | | | | | X |
| 3 | ↓ | HA-7-2 | 6 | ↓ | ↓ | ↓ | ↓ | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 4 | ↓ | HA-7-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | X | | | | | | | | | | | |
| 5 | HA-8 | HA-8-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |
| 6 | ↓ | HA-8-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | X | | | | | | | | | | | |
| 7 | ↓ | HA-8-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |
| 8 | HA-9 | HA-9-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | X | | | | | | | | | | | |
| 9 | ↓ | HA-9-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |
| 10 | ↓ | HA-9-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |
| 11 | HA-10 | HA-10-1 | 3 | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | X | | | | | | | | | | | |
| 12 | ↓ | HA-10-2 | 6 | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommelt | Date/Time: 6/21/95 1:49 | Received By: [signature] | Date/Time 6-21-95 1340 |
| Name. KAY FROMMELT | No of Samples: 19 | Name [signature] | No of Samples. 19 |
| Relinquished By. | Date/Time: | Received By: | Date/Time: |
| Name. | No. of Samples: | Name: | No. of Samples: |
| Relinquished By. | Date/Time: | Received By: | Date/Time: |
| Name. | No. of Samples: | Name: | No. of Samples |

Remarks:

PACCAR 02017

4268

# CHAIN OF CUSTODY RECORD

Date 6-20-95 Page 2 of 2

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No: 024-01 | Task: 9
Sampled By: KDM | No Of Samples: 19 total.

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418 1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | HA-10 | HA-10-3 | 9' | Soil | 6-20-95 | AM | drive | 2"x4" | | | | | | | | | | | | | | | | | | | | | | | X |
| 14 | HA-11 | HA-11-1 | 3' | ↓ | | PM | sampler | st. st. | | | | | | | | | | | | | | | | | | | | | | | X |
| 15 | ↓ | HA-11-2 | 6' | | | ↓ | ↓ | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 16 | ↓ | HA-11-3 | 9' | | | | | ↓ | | | | | | | | | | | | X | | | | | | | | | | | |
| 17 | HA12 | HA 12-1 | 3' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 18 | ↓ | HA 12-2 | 6' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 19 | ↓ | HA-12-3 | 9' | ↓ | | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements.

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommert | Date/Time: 6/21/95 1400 | Received By: [signature] | Date/Time: 6-21-95 1340 |
| Name: KAY FROMMERT | No. of Samples: 19 | Name: RENE ANTONIO | No of Samples: 19 |
| Relinquished By: | Date/Time: | Received By: | Date/Time |
| Name | No of Samples | Name: | No of Samples |
| Relinquished By: | Date/Time: | Received By | Date/Time: |
| Name | No of Samples: | Name: | No. of Samples |
| Remarks | | | |

PACCAR 02018

BC LABORATORIES

# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-1

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/30/95
Date Analyzed: 06/30/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit | |
|---|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.1 | |
| Bromodichloromethane | None Detected | mg/kg | 0.1 | |
| Bromoform | None Detected | mg/kg | 0.1 | |
| Bromomethane | None Detected | mg/kg | 0.1 | |
| Carbon tetrachloride | None Detected | mg/kg | 0.1 | |
| Chlorobenzene | None Detected | mg/kg | 0.1 | *1 |
| Chloroethane | None Detected | mg/kg | 0.2 | |
| Chloroform | None Detected | mg/kg | 0.1 | |
| Chloromethane | None Detected | mg/kg | 0.2 | |
| Dibromochloromethane | None Detected | mg/kg | 0.1 | |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.1 | *1 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.1 | *1 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.1 | *1 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.1 | |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.1 | |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.1 | |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.1 | |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.1 | |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.1 | |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.1 | |
| Ethyl benzene | 0.72 | mg/kg | 0.1 | *1 |
| Methylene Chloride | None Detected | mg/kg | 0.2 | |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.1 | |
| Tetrachloroethene | None Detected | mg/kg | 0.1 | *1 |
| Toluene | 0.56 | mg/kg | 0.1 | *1 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.1 | |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.1 | |
| Trichloroethene | None Detected | mg/kg | 0.1 | |
| Trichlorofluoromethane | None Detected | mg/kg | 0.1 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.1 | |
| Vinyl Chloride | None Detected | mg/kg | 0.1 | |
| Xylenes | 5.5 | mg/kg | 0.1 | *1 |

| Surrogates | % Recovery | Control Limits | |
|---|---|---|---|
| 1,2-Dichloroethane-d4 | 101. | 0.1 | |
| Toluene-d8 | 102. | 0.1 | |
| Bromofluorobenzene | 262. | 0.1 | *1 |

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Volatile Organic Analysis
(EPA Method 8240)

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1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-1

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-1

Flag Explanations:
*1 = Estimated values due to high surrogate recovery caused by matrix.

Note: PQL's were raised due to high concentration of hydrocarbons present requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-2

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-2

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/30/95
Date Analyzed: 06/30/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | None Detected | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | 0.014 | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97. | 70-121 |
| Toluene-d8 | 100. | 81-117 |
| Bromofluorobenzene | 103. | 74-121 |

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-2

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-2

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-3

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-3

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.031 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99. | 70-121 |
| Toluene-d8 | 98. | 81-117 |
| Bromofluorobenzene | 100. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-3

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-13-3

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-4

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-14-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/30/95
Date Analyzed: 06/30/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.88 | mg/kg | 0.05 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.52 | mg/kg | 0.05 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101. | 70-121 |
| Toluene-d8 | 109. | 81-117 |
| Bromofluorobenzene | 87. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-4

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-14-1

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-5

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-15-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/30/95
Date Analyzed: 06/30/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.026 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97. | 70-121 |
| Toluene-d8 | 99. | 81-117 |
| Bromofluorobenzene | 99. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-5

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-15-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-6

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-16-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.11 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.055 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103. | 70-121 |
| Toluene-d8 | 101. | 81-117 |
| Bromofluorobenzene | 96. | 74-121 |

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# Volatile Organic Analysis
## (EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-6

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-16-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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BC LABORATORIES



# Volatile Organic Analysis
## (EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-7

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-17-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.11 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.071 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105. | 70-121 |
| Toluene-d8 | 99. | 81-117 |
| Bromofluorobenzene | 96. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-7

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-17-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-8

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-18-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.017 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | 0.0091 | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97. | 70-121 |
| Toluene-d8 | 101. | 81-117 |
| Bromofluorobenzene | 93. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-8

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-18-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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# Volatile Organic Analysis
(EPA Method 8240)

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1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-9

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-19-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/29/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | mg/kg | 0.005 |
| Bromodichloromethane | None Detected | mg/kg | 0.005 |
| Bromoform | None Detected | mg/kg | 0.005 |
| Bromomethane | None Detected | mg/kg | 0.005 |
| Carbon tetrachloride | None Detected | mg/kg | 0.005 |
| Chlorobenzene | None Detected | mg/kg | 0.005 |
| Chloroethane | None Detected | mg/kg | 0.01 |
| Chloroform | None Detected | mg/kg | 0.005 |
| Chloromethane | None Detected | mg/kg | 0.01 |
| Dibromochloromethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,2-Dichloroethane | None Detected | mg/kg | 0.005 |
| 1,1-Dichloroethene | None Detected | mg/kg | 0.005 |
| trans-1,2-Dichloroethene | None Detected | mg/kg | 0.005 |
| 1,2-Dichloropropane | None Detected | mg/kg | 0.005 |
| cis-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| trans-1,3-Dichloropropene | None Detected | mg/kg | 0.005 |
| Ethyl benzene | None Detected | mg/kg | 0.005 |
| Methylene Chloride | None Detected | mg/kg | 0.01 |
| 1,1,2,2-Tetrachloroethane | None Detected | mg/kg | 0.005 |
| Tetrachloroethene | 0.010 | mg/kg | 0.005 |
| Toluene | None Detected | mg/kg | 0.005 |
| 1,1,1-Trichloroethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloroethane | None Detected | mg/kg | 0.005 |
| Trichloroethene | None Detected | mg/kg | 0.005 |
| Trichlorofluoromethane | None Detected | mg/kg | 0.005 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | mg/kg | 0.005 |
| Vinyl Chloride | None Detected | mg/kg | 0.005 |
| Xylenes | None Detected | mg/kg | 0.01 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99. | 70-121 |
| Toluene-d8 | 104. | 81-117 |
| Bromofluorobenzene | 91. | 74-121 |

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Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/03/95
Date Received: 06/23/95
Laboratory No.: 95-07687-9

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-19-1

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/05/95
Date Received: 06/23/95
Laboratory No.: 95-07687-7

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-17-1

Sample Matrix: SOIL

Date Collected: 06/21/95
Date Extracted: 06/29/95
Date Analyzed: 06/30/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Acenaphthene | None Detected | mg/kg | 0.1 |
| Acenaphthylene | None Detected | mg/kg | 0.1 |
| Aldrin | None Detected | mg/kg | 0.1 |
| Aniline | None Detected | mg/kg | 0.2 |
| Anthracene | None Detected | mg/kg | 0.1 |
| Benzidine | None Detected | mg/kg | 1. |
| Benz (a) anthracene | None Detected | mg/kg | 0.1 |
| Benzo (b) fluoranthene | None Detected | mg/kg | 0.1 |
| Benzo (k) fluoranthene | None Detected | mg/kg | 0.1 |
| Benzo (a) Pyrene | None Detected | mg/kg | 0.1 |
| Benzo (ghi) perylene | None Detected | mg/kg | 0.1 |
| Benzoic Acid | None Detected | mg/kg | 0.2 |
| Benzyl alcohol | None Detected | mg/kg | 0.1 |
| Butyl benzyl phthalate | None Detected | mg/kg | 0.1 |
| alpha-BHC | None Detected | mg/kg | 0.1 |
| beta-BHC | None Detected | mg/kg | 0.1 |
| delta-BHC | None Detected | mg/kg | 0.1 |
| gamma-BHC | None Detected | mg/kg | 0.1 |
| bis(2-chloroethyl)ether | None Detected | mg/kg | 0.1 |
| bis(2-chloroethoxy)methane | None Detected | mg/kg | 0.1 |
| bis(2-ethylhexyl)phthalate | None Detected | mg/kg | 0.2 |
| bis(2-chloroisopropyl)ether | None Detected | mg/kg | 0.1 |
| 4-Bromophenyl phenyl ether | None Detected | mg/kg | 0.1 |
| 4-Chloroaniline | None Detected | mg/kg | 0.1 |
| 2-Chloronaphthalene | None Detected | mg/kg | 0.1 |
| 4-Chlorophenyl phenyl ether | None Detected | mg/kg | 0.1 |
| Chrysene | None Detected | mg/kg | 0.1 |
| 4,4-DDD' | None Detected | mg/kg | 0.1 |
| 4,4-DDE' | None Detected | mg/kg | 0.1 |
| 4,4-DDT' | None Detected | mg/kg | 0.1 |
| Dibenzo (a,h) anthracene | None Detected | mg/kg | 0.1 |
| Dibenzofuran | None Detected | mg/kg | 0.1 |
| Di-n-butyl phthalate | None Detected | mg/kg | 0.1 |
| 1,2-Dichlorobenzene | None Detected | mg/kg | 0.1 |
| 1,3-Dichlorobenzene | None Detected | mg/kg | 0.1 |
| 1,4-Dichlorobenzene | None Detected | mg/kg | 0.1 |
| 3,3-Dichlorobenzidine | None Detected | mg/kg | 0.2 |
| Dieldrin | None Detected | mg/kg | 0.1 |
| Diethyl phthalate | None Detected | mg/kg | 0.1 |
| Dimethyl phthalate | None Detected | mg/kg | 0.1 |

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Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/05/95
Date Received: 06/23/95
Laboratory No.: 95-07687-7

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-17-1

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| 2,4-Dinitrotoluene | None Detected | mg/kg | 0.1 |
| 2,6-Dinitrotoluene | None Detected | mg/kg | 0.1 |
| Di-n-octylphthalate | None Detected | mg/kg | 0.1 |
| 1,2-Diphenylhydrazine | None Detected | mg/kg | 0.1 |
| Endosulfan I | None Detected | mg/kg | 0.1 |
| Endosulfan II | None Detected | mg/kg | 0.1 |
| Endosulfan sulfate | None Detected | mg/kg | 0.1 |
| Endrin | None Detected | mg/kg | 0.1 |
| Endrin Aldehyde | None Detected | mg/kg | 0.1 |
| Fluoranthene | None Detected | mg/kg | 0.1 |
| Fluorene | None Detected | mg/kg | 0.1 |
| Heptachlor | None Detected | mg/kg | 0.1 |
| Heptachlor epoxide | None Detected | mg/kg | 0.1 |
| Hexachlorobenzene | None Detected | mg/kg | 0.1 |
| Hexachlorobutadiene | None Detected | mg/kg | 0.1 |
| Hexachlorocyclopentadiene | None Detected | mg/kg | 0.1 |
| Hexachloroethane | None Detected | mg/kg | 0.1 |
| Indeno (1,2,3-cd) pyrene | None Detected | mg/kg | 0.1 |
| Isophorone | None Detected | mg/kg | 0.1 |
| 2-Methylnaphthalene | None Detected | mg/kg | 0.1 |
| Naphthalene | None Detected | mg/kg | 0.1 |
| 2-Naphthylamine | None Detected | mg/kg | 1. |
| 2-Nitroaniline | None Detected | mg/kg | 0.1 |
| 3-Nitroaniline | None Detected | mg/kg | 0.1 |
| 4-Nitroaniline | None Detected | mg/kg | 0.2 |
| Nitrobenzene | None Detected | mg/kg | 0.1 |
| n-Nitrosodimethylamine | None Detected | mg/kg | 0.1 |
| n-Nitrosodiphenylamine | None Detected | mg/kg | 0.1 |
| N-nitrosodi-n-propylamine | None Detected | mg/kg | 0.1 |
| Phenanthrene | None Detected | mg/kg | 0.1 |
| Pyrene | None Detected | mg/kg | 0.1 |
| 1,2,4-Trichlorobenzene | None Detected | mg/kg | 0.1 |
| 4-Chloro-3-methylphenol | None Detected | mg/kg | 0.2 |
| 2-Chlorophenol | None Detected | mg/kg | 0.1 |
| 2,4-Dichlorophenol | None Detected | mg/kg | 0.1 |
| 2,4-Dimethylphenol | None Detected | mg/kg | 0.1 |
| 2,4-Dinitrophenol | None Detected | mg/kg | 0.5 |
| 2-Methyl-4,6-dinitrophenol | None Detected | mg/kg | 0.2 |
| 2-Methylphenol | None Detected | mg/kg | 0.1 |
| 4-Methylphenol | None Detected | mg/kg | 0.1 |
| 2-Nitrophenol | None Detected | mg/kg | 0.1 |
| 4-Nitrophenol | None Detected | mg/kg | 0.2 |
| Pentachlorophenol | None Detected | mg/kg | 0.2 |
| Phenol | None Detected | mg/kg | 0.1 |

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BC LABORATORIES



Base Neutral and Acid Extractables
Organic Analysis
(EPA Method 8270)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 07/05/95
Date Received: 06/23/95
Laboratory No.: 95-07687-7

Sample Description: FEL PROJECT #4289 H20 SCIENCE: HA-17-1

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| 2,4,5-Trichlorophenol | None Detected | mg/kg | 0.2 |
| 2,4,6-Trichlorophenol | None Detected | mg/kg | 0.2 |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 2-Fluorophenol | 53. | 25-121 |
| Phenol-d5 | 61. | 24-113 |
| Nitrobenzene-d5 | 50. | 23-120 |
| 2-Fluorobiphenyl | 45. | 30-115 |
| 2,4,6-Tribromophenol | 71. | 19-122 |
| d14-Terphenyl | 64. | 18-137 |

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Stuart G. Buttram
Department Supervisor

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#4289

# CHAIN OF CUSTODY RECORD

Date 6-21-95 Page 1 of 2

H2O SCIENCE, INC
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379 1157
FAX (714) 379 1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No: 624.001 Task: 9
Sampled By: KDM No Of Samples 19 total.

| | BORING/WELL | SAMPLE ID | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | EPA 8040 (Phenols) | EPA 8100 (PAHs) | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | HA-13 | HA-13-1 | 3' | SOIL | 6-21-95 | AM | drive | 2"x4" | no | 4°c | | | | | | | | | | X | | | | | | | | | | | |
| 2 | ↓ | HA-13-2 | 6' | ↓ | ↓ | ↓ | sampler | st. st. | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 3 | ↓ | HA-13-3 | 9' | ↓ | ↓ | ↓ | ↓ | tube | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 4 | HA14 | HA-14-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 5 | HA-15 | HA-15-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 6 | ↓ | HA-15-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 7 | ↓ | HA15-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 8 | HA16 | HA-16-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 9 | ↓ | HA-16-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 10 | ↓ | HA-16-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 11 | HA17 | HA-17-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | X | X | | | | | |
| 12 | ↓ | HA-17-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommer<br>Name: KAY FROMMER | Date/Time: 6/22/95 2:10p<br>No of Samples: 19 | Received By: [signature]<br>Name: RENE A. MONTANEZ | Date/Time: 6-22-95 1405<br>No. of Samples: 19 |
| Relinquished By<br>Name | Date/Time<br>No. of Samples | Received By<br>Name: | Date/Time:<br>No. of Samples |
| Relinquished By<br>Name. | Date/Time<br>No. of Samples: | Received By:<br>Name | Date/Time<br>No. of Samples. |

Remarks:

93791160 #23/24

7-11-95 : 14:53 FULL. ENVIR. LAB. -

SENT BY:

PACCAR 02040

#4289

# CHAIN OF CUSTODY RECORD

Date 6-21-95 Page 2 of 2

H2O SCIENCE, INC
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379 1157
FAX (714) 379 1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No 024-001 Task 9
Sampled By KDM No Of Samples 19 total

| | BORING/WELL | SAMPLE I D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418 1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | HA-17 | HA-17-3 | 9' | SOIL | 6-21-95 | PM | drive | 2"x4" | no | 4°C | | | | | | | | | | | | | | | | | | | | | X |
| 14 | HA18 | HA-18-1 | 3' | ↓ | ↓ | ↓ | sampler | st. st. | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 15 | ↓ | HA-18-2 | 6' | ↓ | ↓ | ↓ | ↓ | tube | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 16 | ↓ | HA-18-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 17 | HA-19 | HA-19-1 | 3' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 18 | ↓ | HA-19-2 | 6' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 19 | ↓ | HA-19-3 | 9' | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements

| | | | |
|---|---|---|---|
| Relinquished By: Kay Fromment | Date/Time 6/22/95 210 P | Received By: [signature] | Date/Time 6-22-95 1405 |
| Name KAY FROMMENT | No. of Samples 19 | Name RENE A MONTANEZ | No. of Samples 19 |
| Relinquished By: | Date/Time | Received By: | Date/Time |
| Name | No. of Samples | Name | No of Samples |
| Relinquished By | Date/Time | Received By | Date/Time: |
| Name | No. of Samples | Name | No. of Samples |

Remarks

SENT BY: 7-11-95 14 54 :FULL ENVIR. LAB. 93791160 #24/24

PACCAR 02041

**Fullerton**
**Environmental**
**Laboratory**

## LABORATORY REPORT

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4337<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Extracted:**<br>**Date Analyzed:** | 06/26/95<br>06/27/95<br>06/28/95<br>06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**ANALYSES REQUESTED:**

1. 8240 Volatile Organics Compounds by EPA 8260

**Approval:** Salvador M 8/B.R
Laboratory Manager
Beth Riley

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX** Printed on Recycled Paper

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4337 |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/26/95 |
| | | **Date Received:** | 06/27/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-3 3-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 81 | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | 22 | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| DBFM Surrogate Rec. (%) | 82 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 85 | ---- |
| BFB Surrogate Rec. (%) | 81 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4337 |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/26/95 |
| | | **Date Received:** | 06/27/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-3 5-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | 34 | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | 10 | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 380 | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | 210 | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | 9.2 | 5.0 |
| 1,2-Dichlorobenzene | 20 | 5.0 |
| DBFM Surrogate Rec. (%) | 95 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 95 | ---- |
| BFB Surrogate Rec. (%) | 88 | ---- |

ND = Not Detected

1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4337<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Extracted:**<br>**Date Analyzed:** | 06/26/95<br>06/27/95<br>06/28/95<br>06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-3 11-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | 270 | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | 23 | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 1100 | 25 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | 8.1 | 5.0 |
| Tetrachloroethene | 870 | 25 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | 20 | 5.0 |
| 1,2-Dichlorobenzene | 40 | 5.0 |
| DBFM Surrogate Rec. (%) | 102 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 96 | ---- |
| BFB Surrogate Rec. (%) | 95 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4337 |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/26/95 |
| | | **Date Received:** | 06/27/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-3 20-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | 67 | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 230 | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | 54 | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| DBFM Surrogate Rec. (%) | 96 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 98 | ---- |
| BFB Surrogate Rec. (%) | 90 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4337 |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/26/95 |
| | | **Date Received:** | 06/27/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-3 24-1 | Reporting Limits (ug/Kg) | LMB (ug/Kg) | LCS Rec. (%) |
|---|---|---|---|---|
| Chloromethane | ND | 5.0 | ND | 96 |
| Vinyl chloride | ND | 5.0 | ND | 94 |
| Bromomethane | ND | 5.0 | ND | 100 |
| Chloroethane | ND | 5.0 | ND | 50 |
| Trichlorofluoromethane | ND | 5.0 | ND | 110 |
| 1,1-Dichloroethene | 49 | 5.0 | ND | 116 |
| Methylene chloride | 730 | 125 | ND | 116 |
| trans-1,2-Dichloroethene | ND | 5.0 | ND | 116 |
| 1,1-Dichloroethane | 7.0 | 5.0 | ND | 112 |
| Chloroform | ND | 5.0 | ND | 112 |
| 1,1,1-Trichloroethane | ND | 5.0 | ND | 111 |
| Carbon tetrachloride | ND | 5.0 | ND | 107 |
| 1,2-Dichloroethane | ND | 5.0 | ND | 110 |
| Benzene | 11 | 5.0 | ND | 106 |
| Trichloroethene | 8800 | 125 | ND | 110 |
| 1,2-Dichloropropane | ND | 5.0 | ND | 106 |
| Bromodichloromethane | ND | 5.0 | ND | 105 |
| cis-1,3-Dichloropropene | ND | 5.0 | ND | 110 |
| Toluene | ND | 5.0 | ND | 105 |
| trans-1,3-Dichloropropene | ND | 5.0 | ND | 106 |
| 1,1,2-Trichloroethane | ND | 5.0 | ND | 109 |
| Tetrachloroethene | 3500 | 125 | ND | 109 |
| Dibromochloromethane | ND | 5.0 | ND | 108 |
| Chlorobenzene | ND | 5.0 | ND | 106 |
| Ethylbenzene | ND | 5.0 | ND | 107 |
| Bromoform | ND | 5.0 | ND | 104 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 108 |
| 1,3-Dichlorobenzene | ND | 5.0 | ND | 105 |
| 1,4-Dichlorobenzene | ND | 5.0 | ND | 104 |
| 1,2-Dichlorobenzene | ND | 5.0 | ND | 104 |
| DBFM Surrogate Rec. (%) | 93 | ---- | 96 | 100 |
| Toluene-d8 Surrogate Rec. (%) | 90 | ---- | 92 | 96 |
| BFB Surrogate Rec. (%) | 85 | ---- | 89 | 95 |

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

QUALITY CONTROL INFORMATION

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/30/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4337 |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/26/95 |
| | | **Date Received:** | 06/27/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

**Sample Spiked:** FEL 4337-4

| Parameter | MS Recovery (%) | MSD Recovery (%) | RPD | Acceptability Range (%) | RPD Range (%) |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 120 | 117 | 2.5 | 70 - 130 | 30 |
| Benzene | 106 | 104 | 1.9 | 70 - 130 | 30 |
| Trichloroethene | 78 | 77 | 1.3 | 70 - 130 | 30 |
| Toluene | 104 | 102 | 1.9 | 70 - 130 | 30 |
| Chlorobenzene | 103 | 101 | 2.0 | 70 - 130 | 30 |
| DBFM Surrogate Rec. (%) | 92 | 98 | --- | 70 - 130 | --- |
| Toluene-d8 Surrogate Rec. (%) | 97 | 98 | --- | 70 - 130 | --- |
| BFB Surrogate Rec. (%) | 95 | 94 | --- | 70 - 130 | --- |

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

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

4337

# CHAIN OF CUSTODY RECORD

Date 6-26-95 Page 1 of 4

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name Mighty/Trico
Project No.: 024-001 Task 10.1
Sampled By KDM No Of Samples 46 total

| | BORING/WELL | SAMPLE I.D. | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-3 | 1-1 | 5' | soil | 6-26-95 | Am | Mod. CAL | 2"x4" | No | 4°C | | | | | | | | | | | | | | | | | | | | | x |
| 2 | | 2-1 | 10' | | | | SP. SP. | St. St. | | | | | | | | | | | | | | | | | | | | | | | x |
| 3 | | 2-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 4 | | 3-1 | 15' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 5 | | 3-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 6 | | 4-1 | 20' | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 7 | | 4-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 8 | | 5-1 | 25' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 9 | | 5-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 10 | | 6-1 | 30' | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 11 | | 6-2 | 30' | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 12 | | 7-1 | 35' | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By: [signature] | Date/Time 6/27/95 1 p | Received By: [signature] | Date/Time 6/27/95 1305 |
| Name KAY FROMMELT | No. of Samples. 46 | Name. RENE A MONTAÑEZ | No of Samples 46 |
| Relinquished By: | Date/Time. | Received By: | Date/Time. |
| Name | No. of Samples. | Name. | No of Samples |
| Relinquished By. | Date/Time. | Received By: | Date/Time. |
| Name | No. of Samples: | Name | No. of Samples |

Remarks:

PACCAR 02049

4337

# CHAIN OF CUSTODY RECORD

Date 6-26-95 Page 2 of 4

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name: Mighty / Trico
Project No.: 024-001 Task 10.1
Sampled By KDM No Of Samples 46 total

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13 | MW 3 | 7-2 | 35' | SOIL | ~~mod.c~~ | AM | mod. Cal | 2"x4" | No | 4°c | | | | | | | | | | | | | | | | | | | | | x |
| 14 | | 8-1 | 40' | | 6-26-95 | | sp sp | St st. | | | | | | | | | | | | | | | | | | | | | | | x |
| 15 | | 8-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 16 | | 9-1 | 41.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 17 | | 9-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 18 | | 10-1 | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 19 | | 10-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 20 | | 11-1 | 45 | | | | | | | | | | | | | | | | | x | | | | | | | | | | | |
| 21 | | 11-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 22 | | 12-1 | 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 23 | | 12-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 24 | | 13-1 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |

Special Analysis or Handling Requirements.

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommelt | Date/Time 6/27/95 1:00 p | Received By: [signature] | Date/Time 6/27 1305 |
| Name KAY FROMMELT | No of Samples 46 | Name: [signature] | No of Samples 46 |
| Relinquished By: | Date/Time | Received By: | Date/Time |
| Name | No. of Samples | Name | No of Samples |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Name: | No of Samples: | Name | No of Samples |

Remarks

PACCAR 02050

4337

# CHAIN OF CUSTODY RECORD

Date 6-26-95 Page 3 of 4

H2O SCIENCE, INC
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name. Mighty/Trico
Project No. 024-001 Task 10.1
Sampled By. KDM No Of Samples 46 total

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | MW3 | 13-2 | 48 | Soil | 6-26-95 | AM | sp.sp. | 2"x4" | No | 4°C | | | | | | | | | | | | | | | | | | | | | x |
| 26 | | 14-1 | 50 | | | | sampler | st st. | | | | | | | | | | | | | | | | | | | | | | | x |
| 27 | | 14-2 | " | | | | | tube | | | | | | | | | | | | | | | | | | | | | | | x |
| 28 | | 15-1 | 51.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 29 | | 15-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 30 | | 16-1 | 53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 31 | | 16-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 32 | | 17-1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 33 | | 17-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 34 | | 18-1 | 56.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 35 | | 18-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 36 | | 19-1 | 58' | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |

Special Analysis or Handling Requirements.

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommelt<br>Name KAY FROMMELT | Date/Time 6/27/95 1:00 p<br>No. of Samples 46 | Received By: [signature]<br>Name Reno Montanez | Date/Time 6/27 1305<br>No of Samples 46 |
| Relinquished By.<br>Name | Date/Time.<br>No. of Samples | Received By.<br>Name | Date/Time<br>No of Samples |
| Relinquished By.<br>Name | Date/Time<br>No. of Samples: | Received By.<br>Name | Date/Time<br>No. of Samples. |

Remarks:

PACCAR 02051

4337

# CHAIN OF CUSTODY RECORD

Date 6-26-95 Page 4 of 4

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name. Mighty/Trico
Project No: 074-001 Task 10.1
Sampled By: KDM No Of Samples ~~[illegible]~~ 46 total

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418 1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | MW3 | 19-2 | 58' | SOIL | 6-26-95 | PM | SP. SP. | 2"x4" | no | 4°C | | | | | | | | | | | | | | | | | | | | | x |
| 38 | | 20-1 | 60' | | | | sampler | st. st. | | | | | | | | | | | | x | | | | | | | | | | | |
| 39 | | 20-2 | " | | | | | tube | | | | | | | | | | | | | | | | | | | | | | | x |
| 40 | | 21-1 | 61.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 41 | | 21-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 42 | | 22-1 | 63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 43 | | 22-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 44 | | 23-1 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 45 | | 23-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | x |
| 46 | | 24-1 | 68 | | | | | | | | | | | | | | | | | x | | | | | | | | | | | |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By Kay Frommelt | Date/Time 6/27/95 | Received By. [signature] | Date/Time 6/27 1305 |
| Name KAY FROMMELT | No of Samples. 46 | Name RENE A. Montanez | No of Samples 46 |
| Relinquished By | Date/Time: | Received By: | Date/Time |
| Name | No of Samples | Name: | No of Samples: |
| Relinquished By. | Date/Time | Received By: | Date/Time. |
| Name. | No of Samples: | Name. | No of Samples |

Remarks

PACCAR 02052

# Fullerton Environmental Laboratory

## LABORATORY REPORT

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-B<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Analyzed:** | 06/27/95<br>06/28/95<br>06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**ANALYSES REQUESTED:**

1. 8240 Volatile Organics Compounds by EPA 8260

**Approval:** Laboratory Manager
Beth Riley

1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX Printed on Recycled Paper

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-B<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/27/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW4 1-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 7.1 | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | 52 | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | 320 | 5.0 |
| m,p-Xylenes | 1900 | 25 |
| o-Xylene | 1700 | 25 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | 45 | 5.0 |
| DBFM Surrogate Rec. (%) | 113 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 110 | ---- |
| BFB Surrogate Rec. (%) | 107 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-B<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/27/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW4 4-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| DBFM Surrogate Rec. (%) | 96 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 93 | ---- |
| BFB Surrogate Rec. (%) | 91 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4349-B |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/27/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW4 7-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | ND | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | ND | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| DBFM Surrogate Rec. (%) | 93 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 90 | ---- |
| BFB Surrogate Rec. (%) | 86 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-B<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Extracted:**<br>**Date Analyzed:** | 06/27/95<br>06/28/95<br>06/28/95<br>06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW4 12-1 | Reporting Limits (ug/Kg) |
|---|---|---|
| Chloromethane | ND | 5.0 |
| Vinyl chloride | ND | 5.0 |
| Bromomethane | ND | 5.0 |
| Chloroethane | ND | 5.0 |
| Trichlorofluoromethane | ND | 5.0 |
| 1,1-Dichloroethene | ND | 5.0 |
| Methylene chloride | ND | 5.0 |
| trans-1,2-Dichloroethene | ND | 5.0 |
| 1,1-Dichloroethane | ND | 5.0 |
| Chloroform | ND | 5.0 |
| 1,1,1-Trichloroethane | ND | 5.0 |
| Carbon tetrachloride | ND | 5.0 |
| 1,2-Dichloroethane | ND | 5.0 |
| Benzene | ND | 5.0 |
| Trichloroethene | 370 | 5.0 |
| 1,2-Dichloropropane | ND | 5.0 |
| Bromodichloromethane | ND | 5.0 |
| cis-1,3-Dichloropropene | ND | 5.0 |
| Toluene | ND | 5.0 |
| trans-1,3-Dichloropropene | ND | 5.0 |
| 1,1,2-Trichloroethane | ND | 5.0 |
| Tetrachloroethene | 89 | 5.0 |
| Dibromochloromethane | ND | 5.0 |
| Chlorobenzene | ND | 5.0 |
| Ethylbenzene | ND | 5.0 |
| m,p-Xylenes | ND | 5.0 |
| o-Xylene | ND | 5.0 |
| Bromoform | ND | 5.0 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 |
| 1,3-Dichlorobenzene | ND | 5.0 |
| 1,4-Dichlorobenzene | ND | 5.0 |
| 1,2-Dichlorobenzene | ND | 5.0 |
| DBFM Surrogate Rec. (%) | 98 | ---- |
| Toluene-d8 Surrogate Rec. (%) | 95 | ---- |
| BFB Surrogate Rec. (%) | 91 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

**FULLERTON ENVIRONMENTAL**
**LABORATORY RESULTS**

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-B<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/27/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/Kg) MW-4 21-1 | Reporting Limits (ug/Kg) | LMB (ug/Kg) | LCS Rec. (%) |
|---|---|---|---|---|
| Chloromethane | ND | 5.0 | ND | 97 |
| Vinyl chloride | ND | 5.0 | ND | 93 |
| Bromomethane | ND | 5.0 | ND | 100 |
| Chloroethane | ND | 5.0 | ND | 100 |
| Trichlorofluoromethane | ND | 5.0 | ND | 112 |
| 1,1-Dichloroethene | ND | 5.0 | ND | 116 |
| Methylene chloride | ND | 5.0 | ND | 116 |
| trans-1,2-Dichloroethene | ND | 5.0 | ND | 116 |
| 1,1-Dichloroethane | ND | 5.0 | ND | 112 |
| Chloroform | ND | 5.0 | ND | 112 |
| 1,1,1-Trichloroethane | ND | 5.0 | ND | 112 |
| Carbon tetrachloride | ND | 5.0 | ND | 108 |
| 1,2-Dichloroethane | ND | 5.0 | ND | 110 |
| Benzene | ND | 5.0 | ND | 106 |
| Trichloroethene | 300 | 5.0 | ND | 110 |
| 1,2-Dichloropropane | ND | 5.0 | ND | 106 |
| Bromodichloromethane | ND | 5.0 | ND | 105 |
| cis-1,3-Dichloropropene | ND | 5.0 | ND | 110 |
| Toluene | ND | 5.0 | ND | 105 |
| trans-1,3-Dichloropropene | ND | 5.0 | ND | 106 |
| 1,1,2-Trichloroethane | ND | 5.0 | ND | 109 |
| Tetrachloroethene | 35 | 5.0 | ND | 109 |
| Dibromochloromethane | ND | 5.0 | ND | 108 |
| Chlorobenzene | ND | 5.0 | ND | 106 |
| Ethylbenzene | ND | 5.0 | ND | 107 |
| m,p-Xylenes | ND | 5.0 | ND | 104 |
| o-Xylene | ND | 5.0 | ND | 103 |
| Bromoform | ND | 5.0 | ND | 104 |
| 1,1,2,2-Tetrachloroethane | ND | 5.0 | ND | 108 |
| 1,3-Dichlorobenzene | ND | 5.0 | ND | 105 |
| 1,4-Dichlorobenzene | ND | 5.0 | ND | 104 |
| 1,2-Dichlorobenzene | ND | 5.0 | ND | 104 |
| DBFM Surrogate Rec. (%) | 101 | ---- | 96 | 100 |
| Toluene-d8 Surrogate Rec. (%) | 94 | ---- | 92 | 96 |
| BFB Surrogate Rec. (%) | 93 | ---- | 90 | 95 |

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

QUALITY CONTROL INFORMATION

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4349-B |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/27/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Extracted:** | 06/28/95 |
| | | **Date Analyzed:** | 06/28/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Soil |

**8240 Volatile Organics Compounds by EPA 8260**

**Sample Spiked:** FEL 4337-4

| Parameter | MS Recovery (%) | MSD Recovery (%) | RPD | Acceptability Range (%) | RPD Range (%) |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 120 | 117 | 2.5 | 70 - 130 | 30 |
| Benzene | 106 | 104 | 1.9 | 70 - 130 | 30 |
| Trichloroethene | 78 | 77 | 1.3 | 70 - 130 | 30 |
| Toluene | 104 | 102 | 1.9 | 70 - 130 | 30 |
| Chlorobenzene | 103 | 101 | 2.0 | 70 - 130 | 30 |
| DBFM Surrogate Rec. (%) | 92 | 98 | --- | 70 - 130 | --- |
| Toluene-d8 Surrogate Rec. (%) | 97 | 98 | --- | 70 - 130 | --- |
| BFB Surrogate Rec. (%) | 95 | 94 | --- | 70 - 130 | --- |

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

4349

# CHAIN OF CUSTODY RECORD

Date 6-27-95 Page 1 of 4

H2O SCIENCE, INC.
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379 1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To. Fullerton Env. Lab.

Project Name Mighty/Trico
Project No.: 024-001 Task 10
Sampled By KDM No Of Samples: 41 total

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413.2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | MW 4 | 1-1 | 5' | SOIL | 6-27-95 | AM | Mod. Cal. | 2"x4" | NO | 4°C | | | | | | | | | | X | | | | | | | | | | | |
| 6 | | 1-2 | " | | | | Split | St. St. | | | | | | | | | | | | | | | | | | | | | | | X |
| 7 | | 2-1 | 10' | | | | spoon | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 8 | | 2-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 9 | | 3-1 | 15' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 10 | | 3-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 11 | | 4-1 | 20' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 12 | | 4-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 13 | | 5-1 | 25' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 14 | | 5-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 15 | | 6-1 | 30' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 16 | | 6-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By. Kay Frommelt<br>Name. KAY FROMMELT | Date/Time. 6/28/95 1:30p<br>No. of Samples. 41 | Received By: [signature]<br>Name [signature] | Date/Time 6/28-1330<br>No of Samples 41 |
| Relinquished By.<br>Name | Date/Time:<br>No of Samples: | Received By.<br>Name. | Date/Time:<br>No of Samples |
| Relinquished By.<br>Name | Date/Time.<br>No. of Samples: | Received By.<br>Name: | Date/Time<br>No of Samples |

Remarks:

PACCAR 02060

4349

# CHAIN OF CUSTODY RECORD

Date 6-27-95 Page 2 of 4

H2O SCIENCE, INC
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No: 024-001 Task: 10
Sampled By: KDM No Of Samples: 41 total

| | BORING/WELL | SAMPLE I D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | MW 4 | 7-1 | 35' | SOIL | 6-27-95 | AM | Mod. Col. | 2"x4" | NO | 4°C | | | | | | | | | | X | | | | | | | | | | | |
| 18 | | 7-2 | " | | | | Split | St. St. | | | | | | | | | | | | | | | | | | | | | | | X |
| 19 | | 8-1 | 40' | | | | spoon | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 20 | | 8-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 21 | | 9-1 | 45' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 22 | | 9-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 23 | | 10-1 | 46.5' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 24 | | 10-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 25 | | 11-1 | 48' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 26 | | 11-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 27 | | 12-1 | 50' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 28 | | 12-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements.

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommelt<br>Name: KAY FROMMELT | Date/Time: 6/28/95 1:30 p<br>No of Samples: 41 | Received By: [signature]<br>Name: RENE A Montanez | Date/Time: 6/28 1:30<br>No of Samples: 41 |
| Relinquished By:<br>Name: | Date/Time:<br>No of Samples: | Received By:<br>Name: | Date/Time<br>No of Samples |
| Relinquished By:<br>Name: | Date/Time:<br>No. of Samples: | Received By:<br>Name: | Date/Time<br>No. of Samples |

Remarks

PACCAR 02061

4349

# CHAIN OF CUSTODY RECORD

Date 6-27-95 Page 3 of 4

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379 1157
FAX (714) 379 1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No 024-001 Task 10
Sampled By: KDM No Of Samples: 41 total

| | BORING/WELL | SAMPLE I D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 29 | MW 4 | 13-1 | 51.5' | SOIL | 6-27-95 | AM | Mod. Col. | 2"x4" | NO | 4°C | | | | | | | | | | | | | | | | | | | | | X |
| 30 | | 13-2 | " | | | | Split | St. St. | | | | | | | | | | | | | | | | | | | | | | | X |
| 31 | | 14-1 | 53' | | | | spoon | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 32 | | 14-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 33 | | 15-1 | 55' | | | PM | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 34 | | 15-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 35 | | 16-1 | 56.5' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 36 | | 16-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 37 | | 17-1 | 58' | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 38 | | 17-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 39 | | 18-1 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| 40 | | 18-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements.

| | | | |
|---|---|---|---|
| Relinquished By Kay Frommelt | Date/Time 6/28/95 1:30 p | Received By [signature] | Date/Time 6/28/95 1330 |
| Name KAY FROMMELT | No. of Samples. 41 | Name RENE A MONTANEZ | No. of Samples 41 |
| Relinquished By | Date/Time | Received By: | Date/Time |
| Name | No. of Samples. | Name | No. of Samples |
| Relinquished By. | Date/Time. | Received By: | Date/Time. |
| Name. | No. of Samples: | Name: | No. of Samples |

Remarks:

PACCAR 02062

4349

# CHAIN OF CUSTODY RECORD

Date 6-27-95 Page 4 of 4

H2O SCIENCE, INC
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Lab.

Project Name: Mighty/Trico
Project No: 024-001 Task: 10
Sampled By: KDM No Of Samples 41 total

| | BORING/WELL | SAMPLE I D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418 1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41 | MW 4 | 19-1 | 61.5' | SOIL | 6-27-95 | PM | Mod.Cal. | 2"x4" | NO | 4°C | | | | | | | | | | | | | | | | | | | | | X |
| 42 | | 20-1 | 63' | | | | Split | st.st. | | | | | | | | | | | | | | | | | | | | | | | X |
| 43 | | 20-2 | " | | | | spoon | tube | | | | | | | | | | | | | | | | | | | | | | | X |
| 44 | | 21-1 | 65' | | | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| 45 | | 21-2 | " | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements:

| | | | |
|---|---|---|---|
| Relinquished By: [signature] | Date/Time 6/28/95 1340 | Received By: [signature] | Date/Time 6/28 - 1330 |
| Name: KAY FROMMELT | No of Samples: 41 | Name: [signature] | No of Samples 41 |
| Relinquished By | Date/Time | Received By. | Date/Time |
| Name: | No of Samples: | Name: | No of Samples |
| Relinquished By. | Date/Time. | Received By. | Date/Time: |
| Name | No. of Samples | Name | No of Samples |

Remarks

PACCAR 02063

# APPENDIX C.2: LABORATORY ANALYTICAL RESULTS - GROUND WATER SAMPLES

Fullerton
Environmental
Laboratory

# LABORATORY REPORT

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 06/23/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4181<br>024-001 |
| **Attn:** | Kay Frommelt | **Date Sampled:**<br>**Date Received:** | 06/17/95<br>06/13/95 |
| **Project:** | Mighty-Trico | **Physical State:** | Aqueous |

**ANALYSES REQUESTED:**

1. EPA 8240 - Volatile Organics by GC/MS

Approval:

Laboratory Manager
Beth Riley

1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX Printed on Recycled Paper

BC LABORATORIES



# Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/20/95
Date Received: 06/14/95
Laboratory No.: 95-07212-1

Sample Description: MIGHTY-TRICO FEL PROJ. #4181: MW-1-1-1

Sample Matrix: Water

Date Collected: 06/12/95
Date Extracted: 06/19/95
Date Analyzed: 06/19/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | 21. | µg/L | 10. |
| Bromodichloromethane | None Detected | µg/L | 10. |
| Bromoform | None Detected | µg/L | 10. |
| Bromomethane | None Detected | µg/L | 10. |
| Carbon tetrachloride | None Detected | µg/L | 10. |
| Chlorobenzene | None Detected | µg/L | 10. |
| Chloroethane | None Detected | µg/L | 20. |
| Chloroform | 11. | µg/L | 10. |
| Chloromethane | None Detected | µg/L | 20. |
| Dibromochloromethane | None Detected | µg/L | 10. |
| 1,2-Dichlorobenzene | None Detected | µg/L | 10. |
| 1,3-Dichlorobenzene | None Detected | µg/L | 10. |
| 1,4-Dichlorobenzene | None Detected | µg/L | 10. |
| 1,1-Dichloroethane | 2900. | µg/L | 600. |
| 1,2-Dichloroethane | 37. | µg/L | 10. |
| 1,1-Dichloroethene | 300. | µg/L | 10. |
| trans-1,2-Dichloroethene | None Detected | µg/L | 10. |
| 1,2-Dichloropropane | None Detected | µg/L | 10. |
| cis-1,3-Dichloropropene | None Detected | µg/L | 10. |
| trans-1,3-Dichloropropene | None Detected | µg/L | 10. |
| Ethyl benzene | None Detected | µg/L | 10. |
| Methylene Chloride | None Detected | µg/L | 20. |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 10. |
| Tetrachloroethene | 800. | µg/L | 600. |
| Toluene | None Detected | µg/L | 10. |
| 1,1,1-Trichloroethane | 100. | µg/L | 10. |
| 1,1,2-Trichloroethane | None Detected | µg/L | 10. |
| Trichloroethene | 3700. | µg/L | 600. |
| Trichlorofluoromethane | None Detected | µg/L | 10. |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 10. |
| Vinyl Chloride | 42. | µg/L | 10. |
| Xylenes | None Detected | µg/L | 20. |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 85. | 76-114 |
| Toluene-d8 | 108. | 88-110 |
| Bromofluorobenzene | 106. | 86-115 |

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
4100 Atlas Ct · Bakersfield CA 93308 · (805) 327-4911 · FAX (805) 327-1918

BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/20/95
Date Received: 06/14/95
Laboratory No.: 95-07212-1

Sample Description: MIGHTY-TRICO FEL PROJ. #4181: MW-1-1-1

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
4100 Atlas Ct · Bakersfield, CA 93308 · (805) 327-4911 · FAX (805) 327-1913

BC LABORATORIES



Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/20/95
Date Received: 06/14/95
Laboratory No.: 95-07212-2

Sample Description: MIGHTY-TRICO FEL PROJ. #4181: MW-2-2-1

Sample Matrix: Water

Date Collected: 06/12/95
Date Extracted: 06/19/95
Date Analyzed: 06/19/95

| Constituents | Analysis Results | Reporting Units | Practical Quantitation Limit |
|---|---|---|---|
| Benzene | None Detected | µg/L | 30. |
| Bromodichloromethane | None Detected | µg/L | 30. |
| Bromoform | None Detected | µg/L | 30. |
| Bromomethane | None Detected | µg/L | 30. |
| Carbon tetrachloride | None Detected | µg/L | 30. |
| Chlorobenzene | None Detected | µg/L | 30. |
| Chloroethane | None Detected | µg/L | 60. |
| Chloroform | None Detected | µg/L | 30. |
| Chloromethane | None Detected | µg/L | 60. |
| Dibromochloromethane | None Detected | µg/L | 30. |
| 1,2-Dichlorobenzene | None Detected | µg/L | 30. |
| 1,3-Dichlorobenzene | None Detected | µg/L | 30. |
| 1,4-Dichlorobenzene | None Detected | µg/L | 30. |
| 1,1-Dichloroethane | None Detected | µg/L | 30. |
| 1,2-Dichloroethane | None Detected | µg/L | 30. |
| 1,1-Dichloroethene | None Detected | µg/L | 30. |
| trans-1,2-Dichloroethene | None Detected | µg/L | 30. |
| 1,2-Dichloropropane | None Detected | µg/L | 30. |
| cis-1,3-Dichloropropene | None Detected | µg/L | 30. |
| trans-1,3-Dichloropropene | None Detected | µg/L | 30. |
| Ethyl benzene | None Detected | µg/L | 30. |
| Methylene Chloride | None Detected | µg/L | 60. |
| 1,1,2,2-Tetrachloroethane | None Detected | µg/L | 30. |
| Tetrachloroethene | 460. | µg/L | 30. |
| Toluene | None Detected | µg/L | 30. |
| 1,1,1-Trichloroethane | None Detected | µg/L | 30. |
| 1,1,2-Trichloroethane | None Detected | µg/L | 30. |
| Trichloroethene | 1800. | µg/L | 30. |
| Trichlorofluoromethane | None Detected | µg/L | 30. |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | None Detected | µg/L | 30. |
| Vinyl Chloride | None Detected | µg/L | 30. |
| Xylenes | None Detected | µg/L | 60. |

| Surrogates | % Recovery | Control Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104. | 76-114 |
| Toluene-d8 | 101. | 88-110 |
| Bromofluorobenzene | 104. | 86-115 |

All results listed in this report are for the exclusive use of the submitting party BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
4100 Atlas Ct · Bakersfield, CA 93308 · (805) 327-4911 · FAX (805) 327-1918

BC LABORATORIES

Volatile Organic Analysis
(EPA Method 8240)

FULLERTON ENVIRONMENTAL LABORATORY
1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
714-447-6868

Date Reported: 06/20/95
Date Received: 06/14/95
Laboratory No.: 95-07212-2

Sample Description: MIGHTY-TRICO FEL PROJ. #4181: MW-2-2-1

Note: PQL's were raised due to high concentration of target analytes requiring sample dilution.

California D.O.H.S. Cert. #1186

Stuart G. Buttram
Department Supervisor

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
4100 Atlas Ct · Bakersfield, CA 93308 · (805) 327-4911 · FAX (805) 327-1918

#4181

# CHAIN OF CUSTODY RECORD

Date 6-12-95 Page 1 of 1

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Environmnt. Lab.

Project Name Mighty-Trico
Project No. 024-001 Task 7
Sampled By D. Mitchell No Of Samples. 4

| | BORING/WELL | SAMPLE I.D. | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418.1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | 1-1 | NA | WATER | 6-12-95 | 1330 | disposable | 40-L | | | | | | | | | | | | * | | | | | | | | | | | |
| 2 | " | 1-2 | " | " | " | " | bailer | VOA | | | | | | | | | | | | | | | | | | | | | | | * |
| 3 | MW2 | 2-1 | " | " | " | 1500 | " | " | | | | | | | | | | | | * | | | | | | | | | | | |
| 4 | " | 2-2 | " | " | " | " | " | " | | | | | | | | | | | | | | | | | | | | | | | * |

Special Analysis or Handling Requirements

| | | | |
|---|---|---|---|
| Relinquished By. [signature] Name. KAY FROMMELT | Date/Time 6/13/95 1:50 p No of Samples. 4 | Received By: [signature] fcl Name: RENE A Nortanez | Date/Time 6/13/95 1350 No of Samples 4/4 |
| Relinquished By: Name | Date/Time. No. of Samples | Received By. Name | Date/Time: No of Samples |
| Relinquished By. Name | Date/Time. No of Samples | Received By: Name | Date/Time No of Samples |

Remarks

PACCAR 02070

**Fullerton**
**Environmental**
**Laboratory**

## LABORATORY REPORT

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-A<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Analyzed:** | 06/28/95<br>06/28/95<br>06/29/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Aqueous |

**ANALYSES REQUESTED:**

1. 624 Volatile Organics Compounds by EPA 8260

**Approval:** Laboratory Manager
Beth Riley

1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX Printed on Recycled Paper

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-A<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Analyzed:** | 06/28/95<br>06/28/95<br>06/29/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Aqueous |

**624 Volatile Organics Compounds by EPA 8260**

| Parameter | Sample ID Concentration (ug/L) MW3-1 | Reporting Limits (ug/L) |
|---|---|---|
| Chloromethane | ND | 1.0 |
| Vinyl chloride | ND | 1.0 |
| Bromomethane | ND | 1.0 |
| Chloroethane | ND | 1.0 |
| Trichlorofluoromethane | 2.9 | 1.0 |
| 1,1-Dichloroethene | 140 | 1.0 |
| Methylene chloride | 630 | 50 |
| trans-1,2-Dichloroethene | 1.8 | 1.0 |
| 1,1-Dichloroethane | 24 | 1.0 |
| Chloroform | 99 | 1.0 |
| 1,1,1-Trichloroethane | ND | 1.0 |
| Carbon tetrachloride | 1.8 | 1.0 |
| 1,2-Dichloroethane | 19 | 1.0 |
| Benzene | 40 | 1.0 |
| Trichloroethene | 30000 | 500 |
| 1,2-Dichloropropane | ND | 1.0 |
| Bromodichloromethane | ND | 1.0 |
| cis-1,3-Dichloropropene | ND | 1.0 |
| Toluene | ND | 1.0 |
| trans-1,3-Dichloropropene | ND | 1.0 |
| 1,1,2-Trichloroethane | 2.9 | 1.0 |
| Tetrachloroethene | 15000 | 500 |
| Dibromochloromethane | ND | 1.0 |
| Chlorobenzene | 4.0 | 1.0 |
| Ethylbenzene | ND | 1.0 |
| Bromoform | ND | 1.0 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 |
| 1,3-Dichlorobenzene | 2.4 | 1.0 |
| 1,4-Dichlorobenzene | 15 | 1.0 |
| 1,2-Dichlorobenzene | 17 | 1.0 |
| PFB Surrogate Rec. (%) | 110 | ---- |
| Fluorobenzene Surrogate Rec. (%) | 105 | ---- |
| BFB Surrogate Rec. (%) | 110 | ---- |

ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

LABORATORY RESULTS

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105<br>Huntington Beach, CA 92649 | **FEL Ref. No.:**<br>**Client Ref. No.:** | 4349-A<br>024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:**<br>**Date Received:**<br>**Date Analyzed:** | 06/28/95<br>06/28/95<br>06/29/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Aqueous |

**EPA 624 - Volatile Organic Compounds**

| Parameter | Sample ID Concentration (ug/L) MW4-1 | Reporting Limits (ug/L) | LMB (ug/L) | LCS Rec. (%) |
|---|---|---|---|---|
| Chloromethane | ND | 1.0 | ND | 80 |
| Vinyl chloride | ND | 1.0 | ND | 94 |
| Bromomethane | ND | 1.0 | ND | 90 |
| Chloroethane | ND | 1.0 | ND | 84 |
| Trichlorofluoromethane | ND | 1.0 | ND | 92 |
| 1,1-Dichloroethene | 150 | 1.0 | ND | 94 |
| Methylene chloride | 40 | 1.0 | ND | 96 |
| trans-1,2-Dichloroethene | 2.4 | 1.0 | ND | 94 |
| 1,1-Dichloroethane | 48 | 1.0 | ND | 88 |
| Chloroform | 190 | 1.0 | ND | 92 |
| 1,1,1-Trichloroethane | ND | 1.0 | ND | 88 |
| Carbon tetrachloride | 1.9 | 1.0 | ND | 91 |
| 1,2-Dichloroethane | 21 | 1.0 | ND | 84 |
| Benzene | 62 | 1.0 | ND | 93 |
| Trichloroethene | 30000 | 500 | ND | 94 |
| 1,2-Dichloropropane | ND | 1.0 | ND | 91 |
| Bromodichloromethane | ND | 1.0 | ND | 92 |
| cis-1,3-Dichloropropene | ND | 1.0 | ND | 92 |
| Toluene | 1.9 | 1.0 | ND | 92 |
| trans-1,3-Dichloropropene | ND | 1.0 | ND | 88 |
| 1,1,2-Trichloroethane | 10 | 1.0 | ND | 94 |
| Tetrachloroethene | 10000 | 50 | ND | 112 |
| Dibromochloromethane | ND | 1.0 | ND | 104 |
| Chlorobenzene | 4.1 | 1.0 | ND | 102 |
| Ethylbenzene | ND | 1.0 | ND | 103 |
| Bromoform | ND | 1.0 | ND | 110 |
| 1,1,2,2-Tetrachloroethane | ND | 1.0 | ND | 109 |
| 1,3-Dichlorobenzene | 3.8 | 1.0 | ND | 109 |
| 1,4-Dichlorobenzene | 26 | 1.0 | ND | 110 |
| 1,2-Dichlorobenzene | 40 | 1.0 | ND | 112 |
| PFB Surrogate Rec. (%) | 118 | ---- | 115 | 102 |
| Fluorobenzene Surrogate Rec. (%) | 107 | ---- | 106 | 92 |
| BFB Surrogate Rec. (%) | 112 | ---- | 116 | 107 |

LMB = Laboratory Method Blank
LCS = Laboratory Control Sample
ND = Not Detected

**1511 E. Orangethorpe Ave., Fullerton, CA 92631 (714) 447-6868 (714) 447-6800 FAX**

FULLERTON ENVIRONMENTAL

QUALITY CONTROL INFORMATION

| | | | |
|---|---|---|---|
| **Client:** | H2O Science, Inc. | **Report Date:** | 07/06/95 |
| **Client Address:** | 5500 Bolsa Avenue, Suite 105 | **FEL Ref. No.:** | 4349-A |
| | Huntington Beach, CA 92649 | **Client Ref. No.:** | 024-001 |
| **Attn:** | Anthony Brown | **Date Sampled:** | 06/28/95 |
| | | **Date Received:** | 06/28/95 |
| | | **Date Analyzed:** | 06/29/95 |
| **Project:** | Mighty/Trico | **Physical State:** | Aqueous |

**EPA 624 - Volatile Organic Compounds**

**Sample Spiked:** Water Blank

| Parameter | MS Recovery (%) | MSD Recovery (%) | RPD | Acceptability Range (%) | RPD Range (%) |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 100 | 115 | 4.9 | 80 - 120 | 20 |
| Benzene | 105 | 114 | 8.2 | 80 - 120 | 20 |
| Trichloroethene | 112 | 114 | 1.8 | 80 - 120 | 20 |
| Toluene | 104 | 112 | 7.4 | 80 - 120 | 20 |
| Chlorobenzene | 109 | 114 | 4.5 | 80 - 120 | 20 |
| PFB Surrogate Rec. (%) | 107 | 113 | --- | 70 - 130 | --- |
| Fluorobenzene Surrogate Rec. (%) | 102 | 106 | --- | 70 - 130 | --- |
| BFB Surrogate Rec. (%) | 111 | 112 | --- | 70 - 130 | --- |

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

4349

# CHAIN OF CUSTODY RECORD

Date: 6-28-95 Page 1 of 1

H2O SCIENCE, INC.
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

Deliver To: Fullerton Env. Labs.

Project Name: Mighty/Trico
Project No.: 024-001 Task: 10
Sampled By: KDM No Of Samples: 4

| | BORING/WELL | SAMPLE I.D | DEPTH | MATRIX | DATE SAMPLED | TIME SAMPLED | SAMPLE METHOD | CONTAINER | PRESERVATION (Yes/No) | TEMPERATURE (F) | VFH (gas) | EFH (diesel) | EFH (crude) | VFH/BTEX | EFH/BTEX | BTEX | Oil & Grease (413 2) | TRPH (418 1) | HVOCs (601/8010) | VOCs (624/8240) | SVOCs (612/8270) | Title 22 Metals STLC/TTLC | Organic Lead | Total Lead | | | | | | Turnaround Time | Hold for Instructions |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW3 | MW3-1 | NA | WATER | 6-28-95 | 0825 | disposable | 40 mL | NO | 4°C | | | | | | | | | | X | | | | | | | | | | | |
| 2 | " | MW3-2 | ↓ | ↓ | ↓ | " | bailer | VOA | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |
| 3 | MW4 | MW4-1 | ↓ | ↓ | ↓ | 0910 | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | X | | | | | | | | | | | |
| 4 | " | MW4-2 | ↓ | ↓ | ↓ | " | ↓ | ↓ | ↓ | ↓ | | | | | | | | | | | | | | | | | | | | | X |

Special Analysis or Handling Requirements

| | | | |
|---|---|---|---|
| Relinquished By: Kay Frommel | Date/Time 6/30/95 1 30 p | Received By: [signature] | Date/Time 6/28-1330 |
| Name KAY FROMMEL | No of Samples 4 | Name: RENE A MONTANEZ | No of Samples 4 |
| Relinquished By: | Date/Time. | Received By: | Date/Time: |
| Name | No of Samples. | Name. | No of Samples: |
| Relinquished By | Date/Time | Received By. | Date/Time |
| Name. | No of Samples: | Name: | No of Samples: |

Remarks

PACCAR 02075

# APPENDIX D: MONITORING WELL SAMPLING FORMS

H2O SCIENCE, INC
5500 BOLSA AVENUE, SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

# MONITORING WELL SAMPLING FORM

| | |
|---|---|
| Project Name. Mighty/Taico | Date: 6-12-95 |
| Project No 024-001 | Time: |
| Employee Name. KDM | Page 1 of 1 |

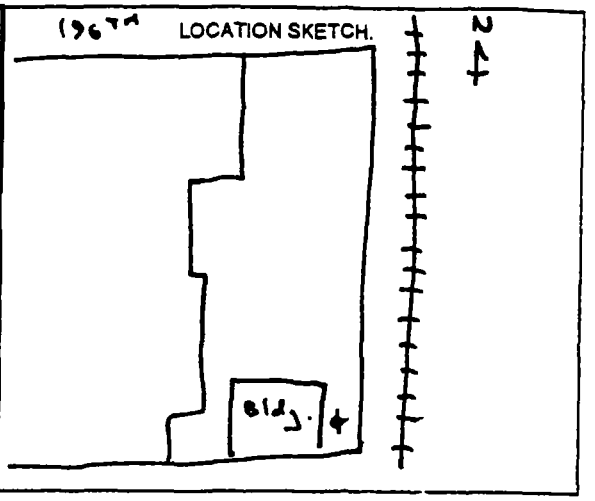
| WELL CONSTRUCTION DETAILS. | | WELL NO.: MW 1 | | |
|---|---|---|---|---|
| DATES | Casing Type: | PVC | Screen Type | St. St. |
| Constructed: | Diameter: | 4" | Diameter: | 4" |
| Developed: | Length: | 65' | Length: | 20' |
| Last Sampled: | T.D. | 86' | Slot Size | 0.02" |

| WELL CONDITION | | Water Depth: | | |
|---|---|---|---|---|
| G.S. Elev.: | Water Depth: | 58.60' TOC ~~59.73' TOW~~ | P. Thickness: | |
| T.C. Elev.: | Water Column: | 26.67' | Water Odor: | |
| W.L. Elev.: | Casing Volume: | 13.3 gal | Turbidity: | |

Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft

Well Purging Method: BAIL Purge Vol: 70 gal.

196TH LOCATION SKETCH.




WELL PURGING AND RECOVERY ANALYSIS:

| Time | W.L. | Purge Rate | Vol. | Temp. | pH | Conduct. | Turbid | D.O. | ORP | Sample No. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1225 | | ~1.3 gpm | 10 gal. | 78.5 | 6.66 | 1.09 | >200 | | | | no odor |
| | | | 20 | 78.8 | 6.87 | 1.13 | " | | | | |
| | | | 30 | 71.9 | 6.91 | 1.05 | " | | | | |
| | | | 40 | 71.7 | 6.97 | 0.85 | " | | | | |
| | | | 50 | 72.1 | 7.05 | 0.96 | " | | | | |
| | | | 60 | 74.0 | 7.05 | 0.90 | " | | | | |
| 1311 | | | 70 | 73.1 | 7.13 | 0.95 | " | | | | |
| | | | | (°F) | | (mS/cm) | (NTU) | | | | |

SAMPLING INFORMATION:

| Sample No | Time | Sampling Method | Container | Analysis Required |
|---|---|---|---|---|
| ~~2~~ 1-1 | 1330 | disposable | 40-mL VOA | 8240 |
| 1-2 | " | bailer | " | duplicate |

ADDITIONAL INFORMATION:

CALIFORNIA CANADA UNITED KINGDOM LATIN AMERICA AND THE MIDDLE EAST

PACCAR 02077

H2O SCIENCE, INC
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

# MONITORING WELL SAMPLING FORM

| | |
|---|---|
| Project Name: Mighty / Tuico | Date 6-12-95 |
| Project No.: 024-001 | Time |
| Employee Name: KDM | Page 1 of 1 |

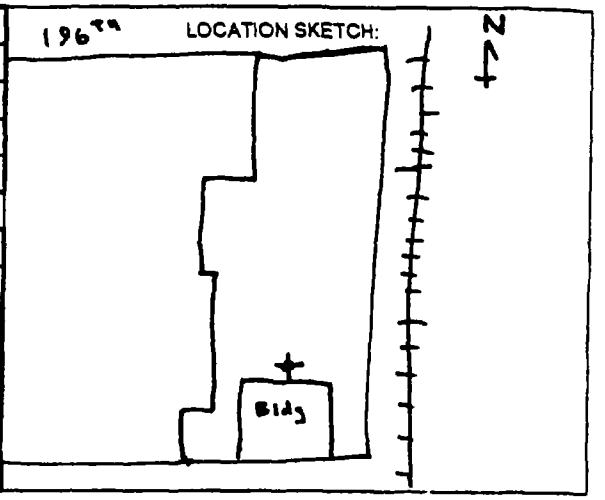
| WELL CONSTRUCTION DETAILS: | | WELL NO.: MW2 | | |
|---|---|---|---|---|
| DATES | Casing Type | PVC | Screen Type: | S.S. |
| Constructed: | Diameter: | 4" | Diameter: | 4" |
| Developed: | Length: | 62' | Length: | 20' |
| Last Sampled: | T.D. | 82' | Slot Size: | 0.02" |

| WELL CONDITION | | Water Depth: | | |
|---|---|---|---|---|
| G.S. Elev.: | Water Depth: | 59.98 TOC 60.28 TOW | P. Thickness: | |
| T.C. Elev.: | Water Column: | 22.22' | Water Odor: | |
| W.L. Elev.: | Casing Volume: | 14 gal | Turbidity: | |

Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft

| Well Purging Method | BAIL | Purge Vol. | 55 gal. |
|---|---|---|---|

LOCATION SKETCH:




WELL PURGING AND RECOVERY ANALYSIS:

| Time | W.L. | Purge Rate | Vol. | Temp. | pH | Conduct. | Turbid. | D.O. | ORP | Sample No. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1403 | | [illegible] | (0 gal). | 77.7 | 7.06 | 1.04 | >200 | | | | no odor |
| | | ~1.3 gpm | 20 | 73.3 | 7.32 | 0.92 | " | | | | |
| | | | 30 | 72.5 | 7.39 | 0.79 | " | | | | |
| | | | 40 | 71.6 | 7.48 | 0.94 | " | | | | |
| | | | 50 | 72.1 | 7.55 | 0.77 | " | | | | |
| 1440 | | | 55 | 71.8 | 7.52 | 0.7[illegible] | " | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

SAMPLING INFORMATION:

| Sample No. | Time | Sampling Method | Container | Analysis Required |
|---|---|---|---|---|
| 2-1 | 1500 | disposable | 40 mL VOA | 8240 |
| 2-2 | " | bailer | " | duplicate |
| | | | | |
| | | | | |

ADDITIONAL INFORMATION:

CALIFORNIA CANADA UNITED KINGDOM, LATIN AMERICA AND THE MIDDLE EAST

H2O SCIENCE, INC.
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH, CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

# MONITORING WELL SAMPLING FORM

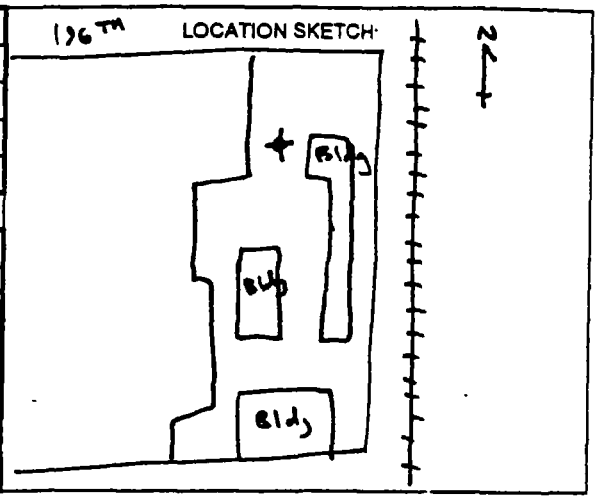
| | |
|---|---|
| Project Name Mighty / Trico | Date: 6-28-95 |
| Project No. 027-001 | Time |
| Employee Name KDM | Page 1 of 1 |

| WELL CONSTRUCTION DETAILS: | | WELL NO.: MW 3 | |
|---|---|---|---|
| DATES | Casing Type: PVC sch 80 | Screen Type: SS. SS. | |
| Constructed: 6-26-95 | Diameter: 2" | Diameter: 2" | |
| Developed: 6-27-95 | Length: 57' | Length: 10' | |
| Last Sampled: NA | T.D: 67' | Slot Size: 0.02" | |

| WELL CONDITION. | | Water Depth: | |
|---|---|---|---|
| G.S. Elev.: | Water Depth: 61.07 TOC 61.5 TOW | F.P. Thickness: none | |
| T.C. Elev.: | Water Column: 5.5' | Water Odor: none | |
| W.L. Elev.: | Casing Volume: 0.88 g. | Turbidity: | |
| Note. 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft | | | |

Well Purging Method hand bail Purge Vol.: 4.5 gal.

LOCATION SKETCH:




WELL PURGING AND RECOVERY ANALYSIS:

| Time | W.L. | Purge Rate | Vol. | Temp. | pH | Conduct. | Turbid. | D.O. | ORP | Sample No. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0753 | | | 0.2 | 70.5 | 7.13 | 1.10 | >200 | | | | no odor |
| | | | 1 | 70.4 | 7.20 | 1.09 | " | | | | |
| | | | 2 | 70.4 | 7.29 | 1.10 | " | | | | |
| | | | 3 | 70.4 | 7.32 | 1.08 | - | | | | |
| | | | 4 | 70.4 | 7.23 | 1.09 | - | | | | |
| 0811 | 61.1 TOC | | 5 | 70.2 | 7.28 | 1.08 | - | | | | |
| | | | (gal.) | (°F) | | (mS/cm) | (NTU) | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

SAMPLING INFORMATION:

| Sample No. | Time | Sampling Method | Container | Analysis Required |
|---|---|---|---|---|
| MW 3-1 | 0825 | disposable | 40-LVOA | 8240 |
| - -2 | " | bailer | - | duplicate |
| | | | | |
| | | | | |

ADDITIONAL INFORMATION:

H2O SCIENCE, INC.
5500 BOLSA AVENUE SUITE 105
HUNTINGTON BEACH CA 92649
TEL (714) 379-1157
FAX (714) 379-1160
ENVIRONMENTAL AND ENGINEERING CONSULTANTS

# MONITORING WELL SAMPLING FORM

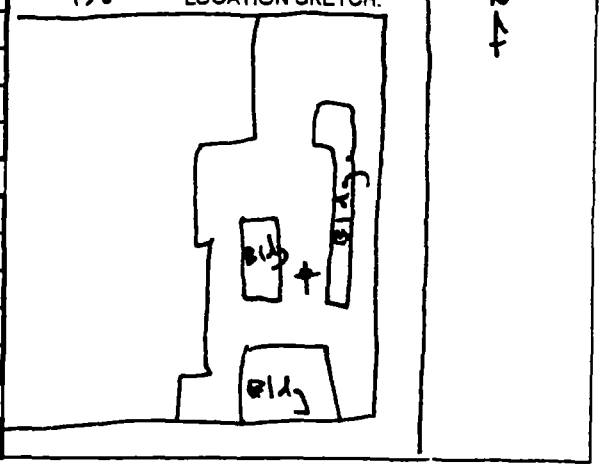
| | | | |
|---|---|---|---|
| Project Name | Mighty/Trico | Date | 6-28-95 |
| Project No.. | 024-001 | Time: | |
| Employee Name: | KDM | Page | 1 of 1 |

| WELL CONSTRUCTION DETAILS: | | | WELL NO.: MW 4 |
|---|---|---|---|
| DATES | Casing Type: PVC #80 | Screen Type | SY. ST. |
| Constructed 6-27.95 | Diameter: 2" | Diameter: | 2" |
| Developed: 6-27.95 | Length: 55' | Length | 10' |
| Last Sampled: NA | T.D 65' | Slot Size. | 0.02" |

| WELL CONDITION | | Water Depth: | |
|---|---|---|---|
| G.S. Elev.: | Water Depth: 59.81 TOC 60.38 TOWE | E.P. Thickness | none |
| T.C. Elev.: | Water Column: 4.62' | Water Odor | none |
| W.L. Elev.: | Casing Volume: 0.74 g | Turbidity: | |
| Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft | | | |

Well Purging Method: hand bail  Purge Vol: 3.7 gal.

196TH LOCATION SKETCH.




WELL PURGING AND RECOVERY ANALYSIS

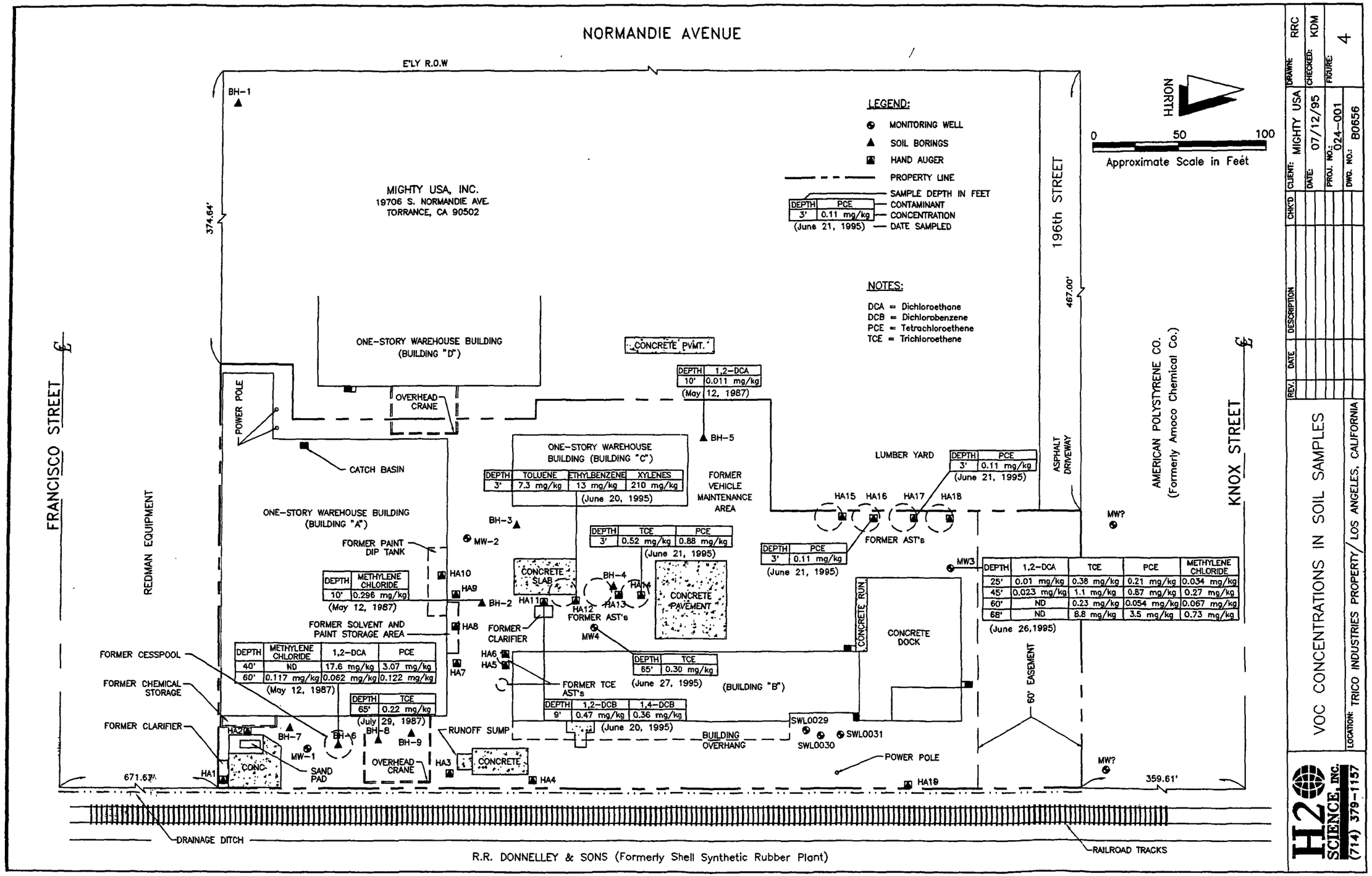
| Time | W.L. | Purge Rate | Vol. | Temp. | pH | Conduct. | Turbid. | D O | ORP | Sample No. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0842 | | ~0.3 gpm | 0.2 | 68.7 | 7.00 | 2.08 | >200 | | | | no ODOR |
| | | | 1 | 70.4 | 7.10 | 2.03 | " | | | | |
| | | | 2 | 70.4 | 7.06 | 2.02 | " | | | | |
| | | | 3 | 70.2 | 7.04 | 2.05 | " | | | | |
| | | | 4 | 69.7 | 7.06 | 2.04 | " | | | | |
| 0858 | 59.9' TOC | | 5 | 70.0 | 7.03 | 2.05 | " | | | | |
| | | | (gal.) | (°F) | | (mS/cm) | (NTU) | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

SAMPLING INFORMATION:

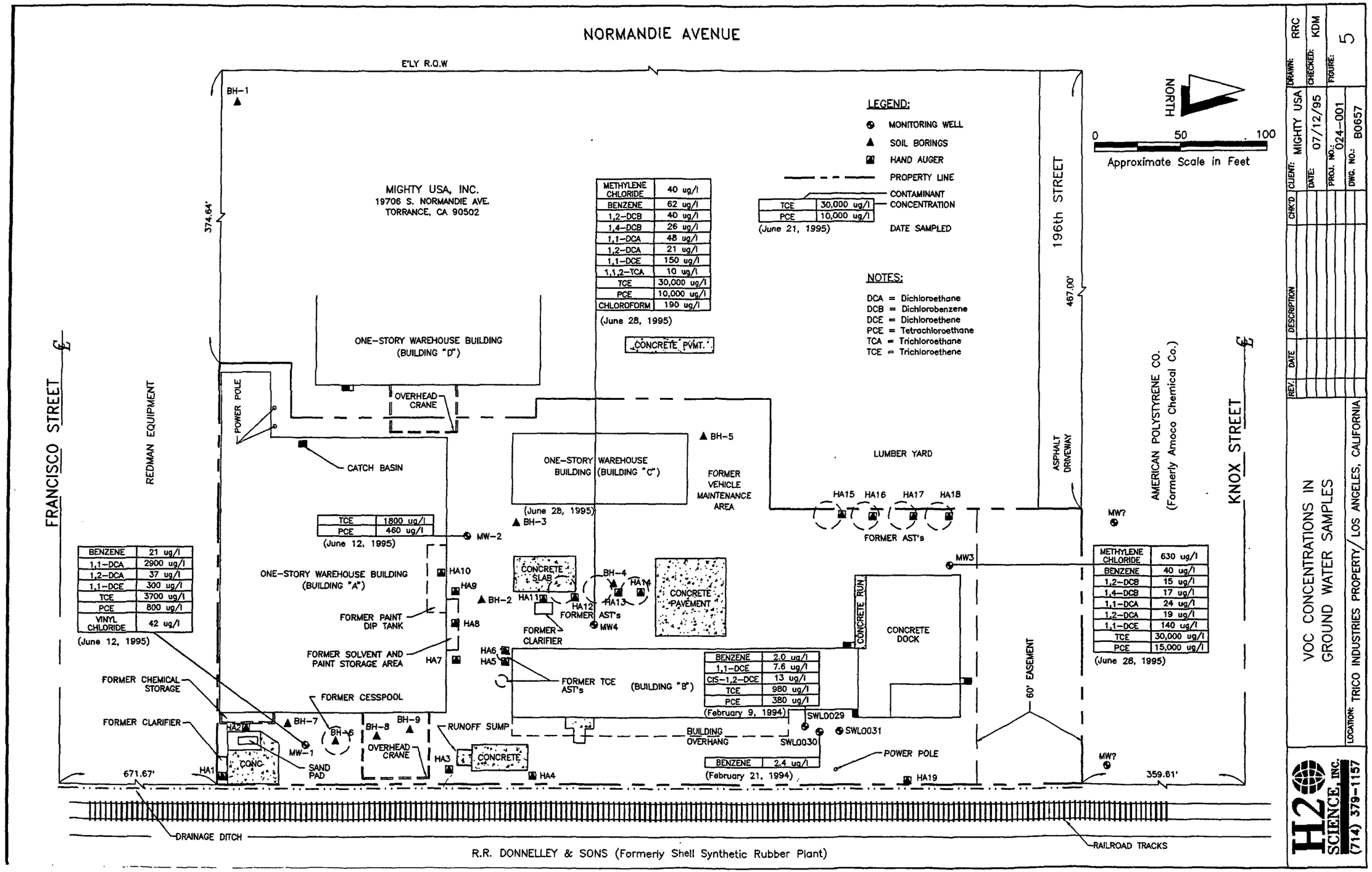
| Sample No | Time | Sampling Method | Container | Analysis Required |
|---|---|---|---|---|
| MW 4-1 | 0910 | disposable | 40-L VOA | 8240 |
| " -2 | " | bailer | " | duplicate |
| | | | | |
| | | | | |

ADDITIONAL INFORMATION:

| |
|---|
| |
| |
| |
| |




PACCAR 02081




| | |
|---|---|
| METHYLENE CHLORIDE | 40 ug/l |
| BENZENE | 62 ug/l |
| 1,2-DCB | 40 ug/l |
| 1,4-DCB | 26 ug/l |
| 1,1-DCA | 48 ug/l |
| 1,2-DCA | 21 ug/l |
| 1,1-DCE | 150 ug/l |
| 1,1,2-TCA | 10 ug/l |
| TCE | 30,000 ug/l |
| PCE | 10,000 ug/l |
| CHLOROFORM | 190 ug/l |

(June 28, 1995)

| | |
|---|---|
| TCE | 30,000 ug/l |
| PCE | 10,000 ug/l |

(June 21, 1995)

| | |
|---|---|
| TCE | 1800 ug/l |
| PCE | 460 ug/l |

(June 12, 1995)

| | |
|---|---|
| BENZENE | 21 ug/l |
| 1,1-DCA | 2900 ug/l |
| 1,2-DCA | 37 ug/l |
| 1,1-DCE | 300 ug/l |
| TCE | 3700 ug/l |
| PCE | 800 ug/l |
| VINYL CHLORIDE | 42 ug/l |

(June 12, 1995)

| | |
|---|---|
| METHYLENE CHLORIDE | 630 ug/l |
| BENZENE | 40 ug/l |
| 1,2-DCB | 15 ug/l |
| 1,4-DCB | 17 ug/l |
| 1,1-DCA | 24 ug/l |
| 1,2-DCA | 19 ug/l |
| 1,1-DCE | 140 ug/l |
| TCE | 30,000 ug/l |
| PCE | 15,000 ug/l |

(June 28, 1995)

| | |
|---|---|
| BENZENE | 2.0 ug/l |
| 1,1-DCE | 7.6 ug/l |
| CIS-1,2-DCE | 13 ug/l |
| TCE | 980 ug/l |
| PCE | 380 ug/l |

(February 9, 1994)

| | |
|---|---|
| BENZENE | 2.4 ug/l |

(February 21, 1994)

| REV. | DATE | DESCRIPTION | CHK'D |
|---|---|---|---|
| | | | |

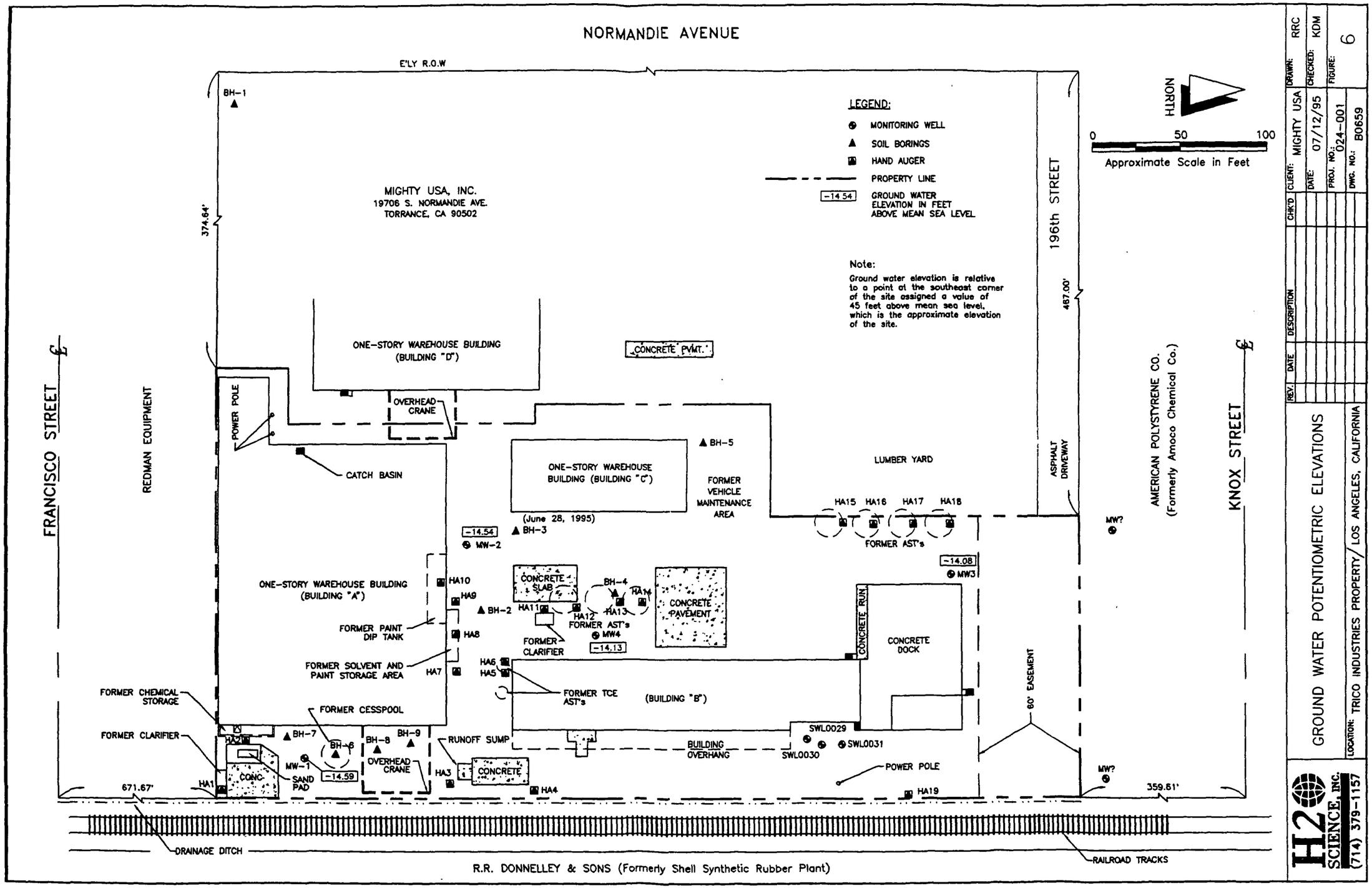
DRAWN: RRC
CHECKED: KDM
FIGURE: 5
CLIENT: MIGHTY USA
DATE: 07/12/95
PROJ. NO.: 024-001
DWG. NO.: B0657

VOC CONCENTRATIONS IN GROUND WATER SAMPLES

LOCATION: TRICO INDUSTRIES PROPERTY/LOS ANGELES, CALIFORNIA

H2 SCIENCE, INC.
(714) 379-1157

PACCAR 02082



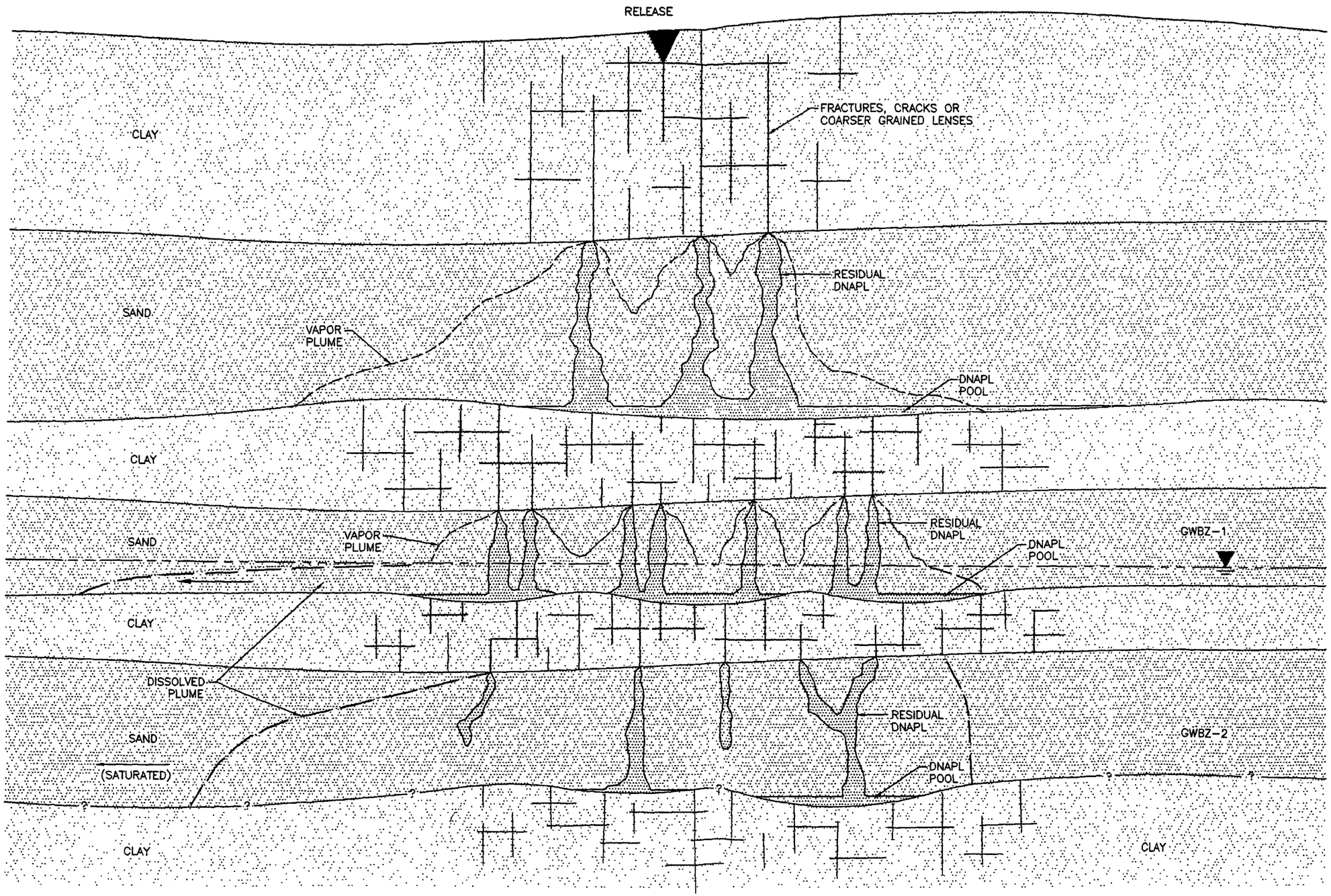

| REV. | DATE | DESCRIPTION | CHK'D | CLIENT: MIGHTY USA | DRAWN: RRC |
|---|---|---|---|---|---|
| | | | | DATE: 07/12/95 | CHECKED: KDM |
| | | | | PROJ. NO.: 024-001 | FIGURE: 6 |
| | | | | DWG. NO.: B0659 | |

GROUND WATER POTENTIOMETRIC ELEVATIONS

LOCATION: TRICO INDUSTRIES PROPERTY/LOS ANGELES, CALIFORNIA

H2 SCIENCE, INC. (714) 379-1157

PACCAR 02083




| REV. | DATE | DESCRIPTION | CHK'D |
|---|---|---|---|
| | | | |

CLIENT: MIGHTY USA
DATE: 07/12/95
PROJ. NO.: 024-001
DWG. NO.: B0658
DRAWN: JW
CHECKED: KDM
FIGURE: 7

POTENTIAL MOVEMENT OF
A DNAPL RELEASE

LOCATION: TRICO INDUSTRIES PROPERTY / LOS ANGELES, CALIFORNIA

H2 SCIENCE, INC.
(714) 379-1157

PACCAR 02084

December 29, 2005
5-91M-15268-0

PACCAR Inc.
777 106th Avenue NE
Bellevue, Washington 98009

Attention: Mr. Fred Benz

**Subject:** **Drain Line Survey**
**Former Trico Torrance Industries Facility**
1206 W. 196th Street
Torrance, California

Dear Mr. Benz:

This letter report summarizes the findings of a drain line survey carried out by AMEC Earth and Environmental, Inc. (AMEC) at the former Trico Torrance Industries Facilities at 1206 W 196th Street, located in Torrance, California (Figure 1). The scope of services for this survey was completed in accordance with AMEC Proposal No. 2005 W-0181, under Scope of Work Task 1, dated April 22, 2005. The drain line survey activities are summarized below.

## PURPOSE

The purpose of the drain line survey was to identify drainage lines around what had been reported to be a "former cesspool" and trace them back to determine their source; and identify sanitary sewer and storm water drain lines servicing the property.

## BACKGROUND

The former Trico Torrance Industries Facilities in Torrance (Figure 1), California (hereafter referred to as the Site) is approximately 100,000 square feet in area, located in an industrial area of an unincorporated section of the County of Los Angeles, California. The Site is developed with three buildings A, B, and C and paved with asphalt concrete or concrete slab-on-grade with no exposed soil. Mighty USA, Inc., understood to be PACCAR's tenant, is using Building A for assembly of machine parts, and Buildings B and C for storage of imported patio furniture products. Historically, the adjacent property to the west and the Site (19706 South Normandie Avenue and 1206 W 196th Street, respectively) were formerly owned and occupied by Trico. Trico sold the adjacent property to the west (19706 South Normandie Avenue) to Mighty Enterprises in 1989. American Polystyrene (formerly Amoco Chemical) is located to the north; Mighty Enterprises and a lumberyard are located to the west; Redman Manufacturing (a

AMEC Earth & Environmental, Inc.
11335 NE 122nd Way, Suite 100
Kirkland, Washington
USA 98034
(425) 820-4669 Phone
(425) 821-3914 Facsimile
www.amec.com

heat exchange manufacturer and repair facility) is located to the south; and R.R. Donnelly and Sons (printing facility) is located to the east. A railroad spur and unloading track are located between the Site and the R.R. Donnelly and Sons facility. An auto repair facility and Boeing Aircraft Company (formerly McDonnell Douglas) are located approximately 200 and 600 feet northwest of the Site, respectively.

It has been reported that two former clarifiers and a single former cesspool had been constructed and used as part of the former manufacturing processes at the site. One of the clarifiers was completely removed in 2004, however both clarifiers had been cleaned and abandoned in-place at some point before 1993. The suspected, former wastewater cesspool was the focus of this survey.

## DATA RESEARCH

AMEC visited several city and county offices to obtain information regarding storm water drain lines, and sewer lines that exist inside and outside the Site property. AMEC visited the following offices for utility location information: the City of Torrance – Building and Safety Office; the City of San Pedro – Building and Safety Office; the City of Los Angeles – Building and Safety Office; the County of Los Angeles which included Los Angeles offices on Temple Street and Spring Street; the Lomita Office; and the Alhambra Public Works Office. AMEC also obtained sewer and storm water drain line drawings from the City of Los Angeles, Navigate LA website. Please see Appendix B for information obtained for these offices and from the Navigate LA website.

AMEC visited the County of Los Angeles, Lomita Office on 07 November 2005 for information regarding permits and plans for the site. AMEC obtained a copy of a permit issued to American Chemsolv Company in the spring of 1957 that indicate there may have been a drywell on the site. On close inspection this drywell permit does not relate to the suspect cesspool but may be related to a structure located near the former clarifier situated between Buildings A and B.

In addition, AMEC staff talked with Mighty staff about the location of site utilities and inspected the cesspool.

## SITE SURVEY

On September 20, 2005, AMEC met with Subsurface Survey and Associates, Inc. (SSAI) at the Site to perform the drain line survey. At the time of the meeting, SSAI decided that the drain line survey could not be performed due to rain and thunderstorms in the area since this would cause interferences with the equipment used to perform the survey and also would create unsafe work conditions. The drain line survey was postponed until September 23, 2005.

On September 23, 2005, AMEC met with SSAI at the Site and commenced the drain line survey. SSAI started at the cesspool and located lines running to and from the cesspool using a metal fish-tape and a utility tracer.

"CESSPOOL" STRUCTURE

The structure referred to as the "cesspool" structure was inspected and was found to have a solid concrete base and body. The structure was also very shallow with the bottom at less than six feet below ground surface. The structure contained a float level switch and a submersible pump mounted about 18 inch below the water line. The pump discharged through an approximately 2 inch diameter line running to the north. Although the base of the structure could not be clearly seen, the structure had a solid concrete body and a steel rod was used to scrape and tap along the base and sides. It was determined that the structures' base and body were solid concrete without holes or bottom permeations.

A visual inspection around the cesspool showed two in-feed lines entering the drainage structure. One line appeared to connect to the roof drain for rainwater but had been cut-off at the ground level. The second line led back into Building A but could not be traced as it appeared to be blocked. The second line may have been a machine cooling water discharge line. Building A was reported to employ various machines that required cooling water. Based on the piping observed inside Building A, most of the machine cooling water was plumbed to discharge through the former clarifier in the southeast corner of the property. The former southeast clarifier then discharged to a surface water drainage channel along the eastern boundary of the site. As stated earlier, the southeast corner clarifier had been cleaned and abandoned in-place at some point before 1993, and then completely removed in 2004 as part of recent site investigations.

A single discharge line was detected leaving the drainage structure (former cesspool) running due north parallel to the eastern side of building A, before making a 90° turn towards the west into Building "A" and then a little further north turning towards the east. The line running towards the east terminated shortly before a surface water drainage channel located along the eastern boundary and the line is likely capped or blocked as there was no outfall observed in the channel.

BUILDING "A" DRAIN LINE AND SANITARY SEWER

SSAI identified the buried portion of the drain line that runs through the center of Building A. The drain line originates at an open drain grate just inside the west end of Building A and runs through the center of Building A to another open drain grate just inside the east end of the building. The line then runs eastwards to the property boundary towards the surface water channel along the eastern property line. However, there was no visual evidence of any outfall from the drain line to the surface water drainage channel.

The bathroom located within Building A has reportedly been out of use for some time and the sewer line going into the bathroom was closed (Mighty employee – Mr. Louis Vargas). The sewer line flows from the bathroom located in ~~of~~ the center of the building and flows due north connecting with the side sewer line running along 196th Street that is connected to the main sewer at the frontage on Normandie Avenue.

SURFACE WATER DRAINAGE CHANNEL

It appears that the discharge line leaving the drainage structure (former cesspool) heading east and the drain line exiting Building A, had discharged at one time to the surface water drainage channel running along the eastern property boundary. The surface water drainage channel starts from the AMOCO property to the north and flows into an unknown drain just after crossing, and south of 197th Street. The water flows from north to south. Reportedly, no water has been observed flowing from the Trico property to the surface drainage channel (Mighty employee - Mr. Louis Vargas). Based on the appearance of the surface drainage channel, lack of an outfall may be due to the channel being rebuilt by others in the past when all unused outfalls were cut off.

W. 196TH STREET SANITARY SEWER

SSAI inspected a sewer manhole located along the northern edge of the property, the sewer lines were confirmed to enter and exit the manhole on a west/east path. A suspected branch of the sewer line was marked on the ground based solely on visible scars on the asphalt, heading on a southeast bearing (due to the depth of the sewer line, SSAI was unable to confirm or refute the suspected branch). Because of the existence of a bathroom in the northeast corner of Building B, the sewer line probably connects to that location and building. According to the County lateral sewer connection plans, the sewer line on the northern edge passes along W 196th St and joins into the Normandie Avenue main sewer line. Two other sewer manholes are found on Normandie Avenue to the north and south of the Mighty office building. The manhole to the south serves as the connection for the sewer from Mighty to the main line. The sewer flow direction is from north to south.

SSAI traversed the areas west of building B and north of building A and found only one anomaly; a circular patch of new concrete located near 2003 boring BL-10 which most likely, represents the recent boring BL-10. Please see Appendix A for SSAI full site survey report and Figure 2 for the location of identified site features of note.

**FINDINGS**

AMEC used previous survey data, data obtained from the offices of the City of Los Angeles and County of Los Angeles, data collected from the City of Los Angeles, Navigate LA website, and from the drain line survey performed by SSAI to locate and map sewer lines and storm water drain lines. Figure 2 shows all of the data gathered during the drain line survey. Appendix A includes SSAI full site survey report. Appendix B includes information obtained from the City of Los Angeles and County of Los Angeles offices and from the Navigate LA website. Appendix C includes AMEC's field notes detailing the events of the data research process and the Site visit with SSAI. Appendix D includes old permit information, sewer plans and Site photos.

As noted, it appears that the "former cesspool" is actually an interceptor drainage structure for rainwater and possibly machine cooling water. The interceptor is complete with a solid concrete vessel body, an integral pump operating float switch, a 2 inch diameter submersible pump, and an abandoned discharge line pumping to a surface water drainage channel along the eastern

property boundary. One observed in-feed line appears to be from the roof drain whilst another in-feed line enters from Building A. Building A was inspected to determine where the line may have led from but no obvious location was observed, although it is suspected that a potential machine cooling water discharge may have existed.

The discharge line coming out of the interceptor drainage structure pumps water towards the surface water drainage channel outside the property boundary and a branch on the discharge line either entered or exited from Building A. The signal died out when traced into Building A and near the water valve box potentially due to a blockage or capping.

The sewer lines on the northern boundary were traced on an east/west path to enter and exit a manhole at the northern end of the site but could not be followed due to the depth of the sewer line which was beyond the GPR detection range. The sewer lines goes along W196th St. and connects to the main sewer line on Normandie Avenue. Connected along the W 196th St. branch line is the site side sewer connecting to Building A bathroom and it is suspected that the branch line also has a "Y" at the end of the W. 196th St. line connecting to Building B's former bathroom.

In conclusion from the research at local city offices, county office and drain line survey, it would appear that there the "cesspool" was misnamed and that the drainage structure in question was used as an interceptor for rainwater collection and possibly machine cooling water. The interceptor drainage structure is no longer in use.

If you have any questions regarding this report, please feel free to call the undersigned at (714) 779-2591.

Respectfully,

**AMEC Earth & Environmental, Inc.**

Lloyd Tangunan
Environmental Technician

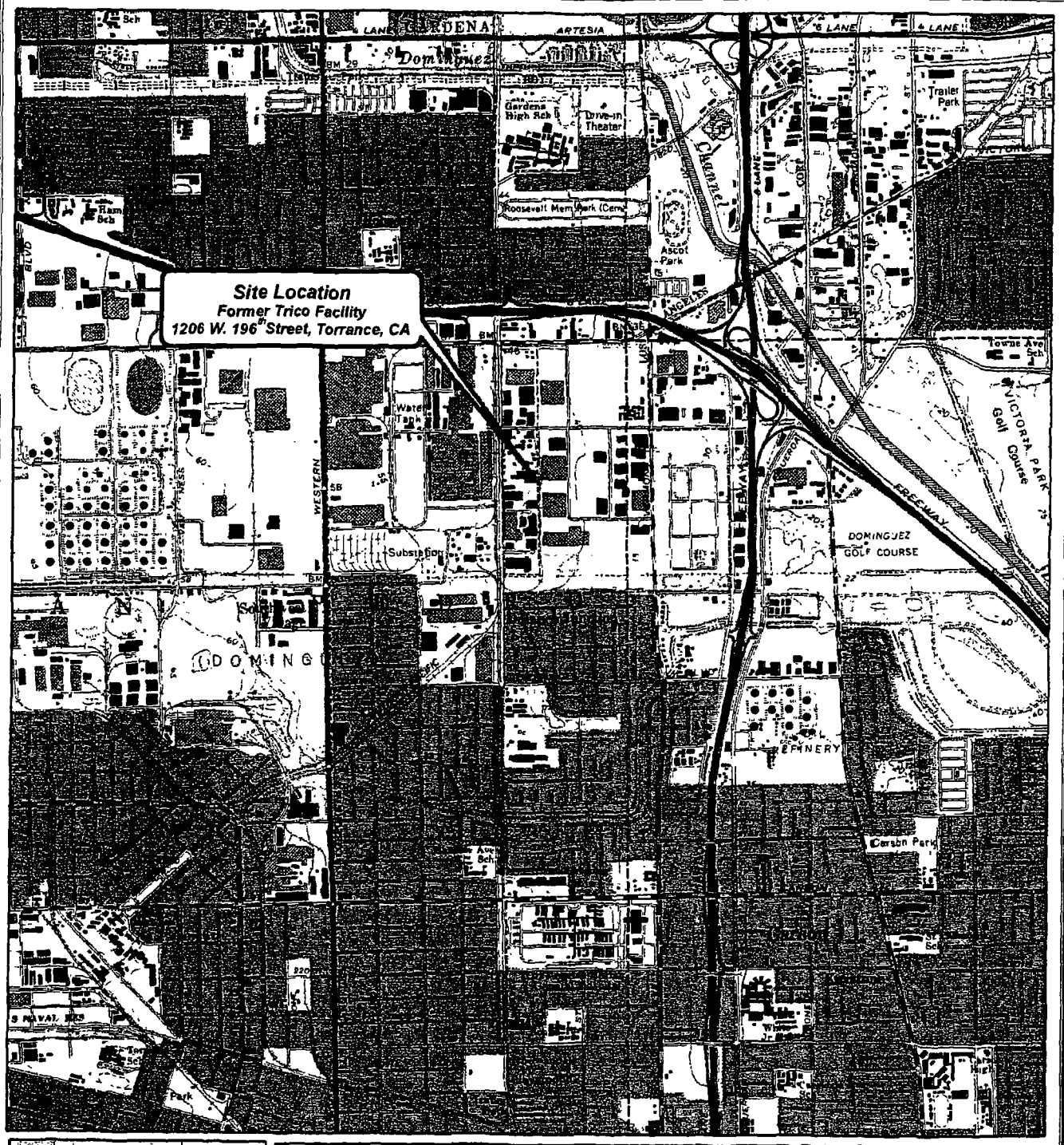
Maheshwar Mettu
Project Engineer

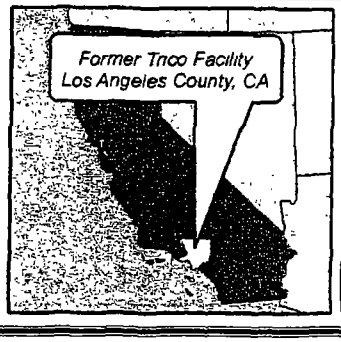
LT/MM/cjw

Enclosed: Figure 1 – Site Location Map
Figure 2 – Site Layout Map

Appendix A – Subsurface Survey and Associates, Inc. Drain Line Survey Report
Appendix B – Research Data
Appendix C – Field Notes
Appendix D – Old permits, Sewer plans, and Site photos

# FIGURES



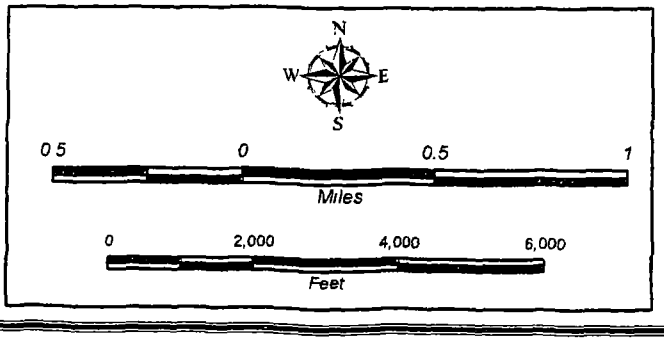
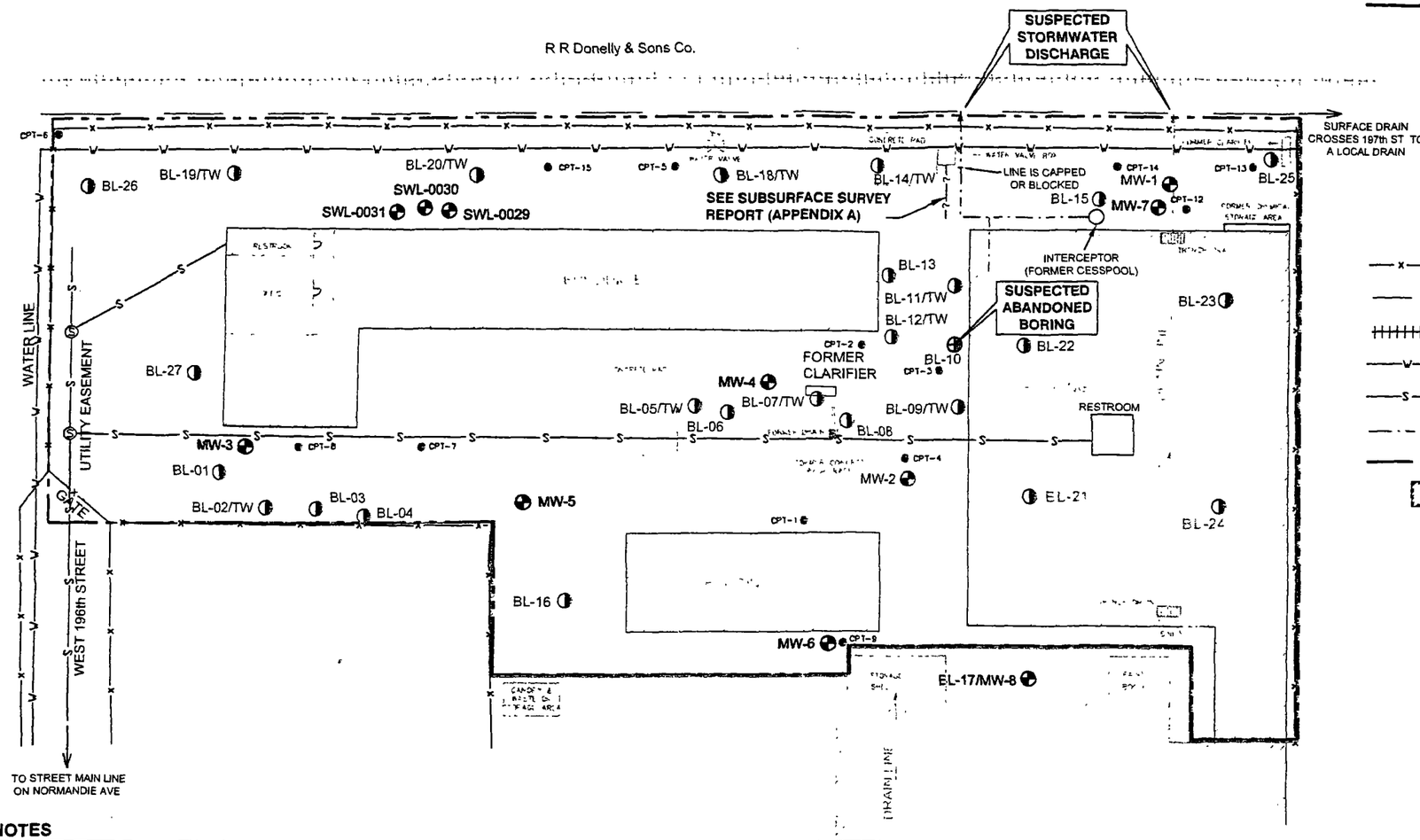




FIGURE 1
SITE LOCATION MAP

amec

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

PACCAR 02091




## LEGEND

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

## NOTES

1: BENCHMARK: VERTICAL DATUM NGVD29
LOS ANGELES CITY BM #02290 USC&GS MON 2FT W OF W CURB NORMANDIE AVE, 101FT S OF CTR LINE PROD KNOX ST, 11FT S OF PP #575840H, 0 05MI NLY FROM 196TH ST, DISC NOT STAMPED

1985 ELEV= 47.247 FEET NGVD29

HORIZONTAL DATUM NAD83

NGS PID STATIONS AI4484 AND AJ1853 EPOCH DATE 2000.35 NAD83

2: DATE OF SURVEY: JANUARY 17, 2003

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

4: TW - TEMPORARY WELL LOCATION

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

SCALE. 1" = 50'

0' 25' 50' 75' 100'

FORMER TRICO FACILITY
1206 W 196TH STREET
TORRANCE, CALIFORNIA

amec

7376 S W DURHAM ROAD
PORTLAND, OR 97224

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

**SITE LAYOUT** — FIGURE 2

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

# APPENDIX A

## SUBSURFACE SURVEY AND ASSOCIATES, INC.
## DRAIN LINE SURVEY REPORT

**SubSurface Surveys & Associates, Inc.**
*An Applied Geophysical Company*

215 S. Hwy 101, Suite 203
Solana Beach, CA 92075

Office: (858) 481-8949
Fax: (858) 481-8998

December 21, 2005

AMEC Earth & Environmental, Inc.
1290 North Hancock Street
Suite 102
Anaheim, California 92075

Project/Invoice Number 05-382

Attn: Maheshwar R. Mettu

Re: Geophysical Investigation, Utilities/Abandoned Well Survey, Former Trico Facility, 1206 West 196th Street, Torrance, California **(2nd Revision)**

This report is to present the results of our geophysical survey carried out over portions of former Trico facility property, located at 1206 West 196th Street, in Torrance, California (Figure 1) on September 22, 2005. Purpose of the survey was to locate and identify, insofar as possible, any drain or sewer lines located within a large portion of the former Trico facility. Finally, the last objective of the survey was to include the findings of the geophysical survey within a detailed site interpretation map provided by the client (Figure 2).

A combination of electromagnetic induction (EM), magnetometer and ground penetrating radar (GPR) was applied to the search. A utility locator with line tracing capabilities was also brought to the field and used where risers exist onto which a signal could be impressed and traced. However, both EM instruments were directly affected by interference, believed to be caused by metallic reinforcing materials embedded within the ground cover, thus strictly limiting the survey to GPR and line tracer activities.

Multiple methods were utilized because each instrument senses different material properties of the ground and buried objects. At any given site the situation, geologic and cultural, may be such that one or more of the instruments may record excessive "noise", the ground may not provide sufficient contrasts, or there may be overlapping anomalies, for a given instrument to be effective. *Summarily stated, there are generally instrumental limits and interpretational* impediments.

Survey Design – The area to be surveyed was indicated in the field by the client and included numerous above-ground cultural objects that could potentially cause interference with the instruments should a formal rectilinear grid for data collection be established. In situations such as this, the best use of time is achieved by systematically free-traversing with the instruments while monitoring them continuously to determine which responses are significant and due to true subsurface targets, and which are due to above-ground features and must be ignored. Multiple GPR profiles were also collected throughout the area and in specific areas for confirmation where other instruments detected anomalies. Where applicable, the line tracer was also utilized to locate and trace out pipes and conduits by energizing nearby risers.

A Geonic's model EM61, and a Fischer M-Scope, were used for the EM sampling, thus confirming presence of metallic reinforcing materials within ground cover. A Sensors & Software Noggin Ground Penetrating Radar unit produced the radar images. A Schonstedt GA-52 magnetic gradiometer was brought into the field, however due to the presence of metallic reinforcing, the magnetic gradiometer was not applied to the survey. Finally, a Metrotech 9890 utility locator rounded out the tools applied. (See appendix for description of geophysical equipment used.)

Interpretation and Conclusions - The interpretation took place in real time as the survey progressed, and accordingly, the findings of our investigation were marked on the ground cover at the site. The intent of this document is to demonstrate the procedure, and report the findings of the work.

GPR was especially useful at detecting both metallic and non-metallic lines and utilities. According to principles of physics, radar penetration is a function of soil conductivity and dielectric constant. At this site, local conditions were reasonably favorable for radar penetration due to the nature of the soil and materials covering the survey areas. This resulted in radar penetration down to approximately 3.0 feet bgs.

Buried piping and utilities detected during the surveys were marked with spray chalk on the ground cover at the site (red for electric, blue for water, green for suspected sewer/storm drain, and white for unknown) and documented in site photographs (Figures 3-10). The survey area consisted predominantly of asphalt-covered surfaces, along with a few slabs of concrete, both of which were reinforced, thus limiting the survey crew to GPR and line tracer activities.

In order to detail a drain line originating from a presumed abandoned cesspool, located near the southeast corner of the property, a metal fish-tape was inserted into an exposed pipe within the cesspool and traced using a utility locator. The signal was detected running parallel to the eastern wall of Building A. This signal then made two 90 degree turns, the first towards the west entering building A near its northern wall, and the second just a few feet further to the north, finally breaking 90 degrees towards the east (Figure 2). After the signal entered building A and neared the water valve box, the line tracer was unable to further detect the signal, nor was GPR able to confirm either of the mark-outs. Furthermore, Figure 5 illustrates an unknown line, possibly a water line, originating from a water valve box and running parallel with the cesspool's drain line. Additionally, upon visual inspection of a sewer manhole located along the northern edge of the property, lines were confirmed to enter and exit the manhole on an east/west path. Plus, a suspected branch of the sewer line was marked on the ground based solely on visible scars within the asphalt, heading at a southeast bearing (Figure 2). Unfortunately, due to the depth of the sewer line, GPR was unable to confirm or refute the suspected branch line.

Lastly, the areas west of Building B and north of Building A were traversed with the GPR in hopes of detecting a suspected abandoned monitoring well. Passes with the GPR within areas specified by the client were collected at approximately two feet intervals along both north-south and east-west headings. However, while GPR did not produce any images that shared characteristics with that of an abandoned well, a circular patch of concrete located near BL-10 may either represent the lost well, or more likely, may represent BL-10 (Figure 10).

*Subsurface Survey's professional personnel are trained and experienced and have completed thousands of projects since the company's inception in 1988. It is our policy to work diligently to bring this training and experience to bear to acquire quality data sets, which in turn, can provide clues useful in formulating our interpretations. Still, non-uniqueness of interpretations, methodological limitations, and non-target interferences are prevailing problems. Subsurface Surveys makes no guarantee either expressed or implied regarding the accuracy of the interpretations presented. And, in no event will Subsurface Surveys be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.*

All data acquired in these surveys are in confidential file in this office, and are available for review by your staff, or by us at your request, at any time. We appreciate the opportunity to participate in this project. Please call, if there are questions.

Ryan T. Merkey
Project Geophysicist

Gary W. Crosby, PhD, GP# 960
Senior Geophysicist

# SITE PHOTOGRAPHS

Former Tritco Facility
1206 West 196th Street
Torrance, California

Figure 3

Figure 4

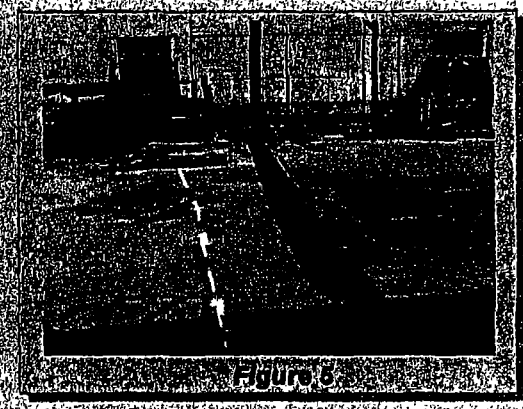


Figure 5

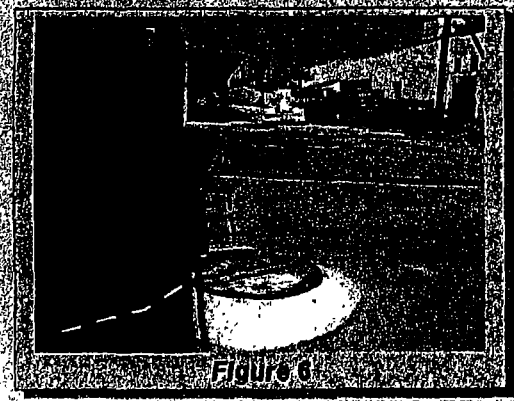


Figure 6

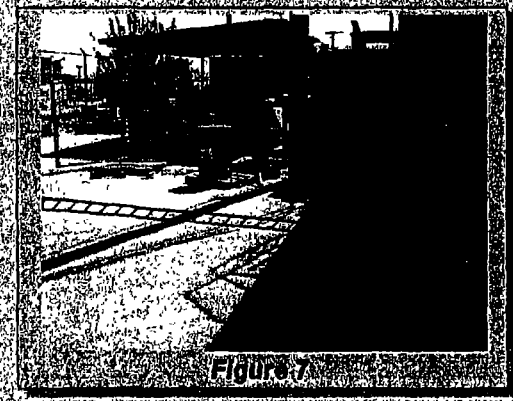


Figure 7

Figure 8

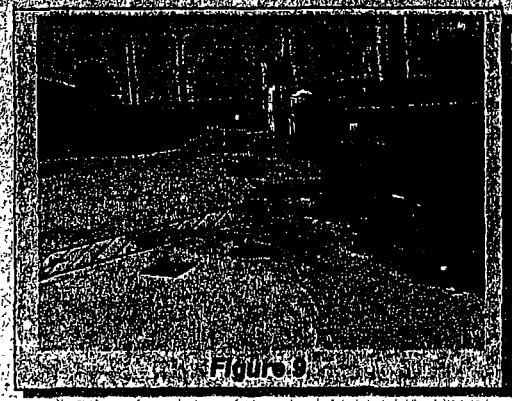


Figure 9

Figure 10

## Appendix

Brief Description of the Geophysical Methods Applied – The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object, say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) are sensed by the M-Scope. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than it is to conductors off to the side.

The EM-61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets. Conductive objects, to a depth of approximately 11 feet bgs can be detected.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.



PACCAR 02097

# SITE LOCATION MAP

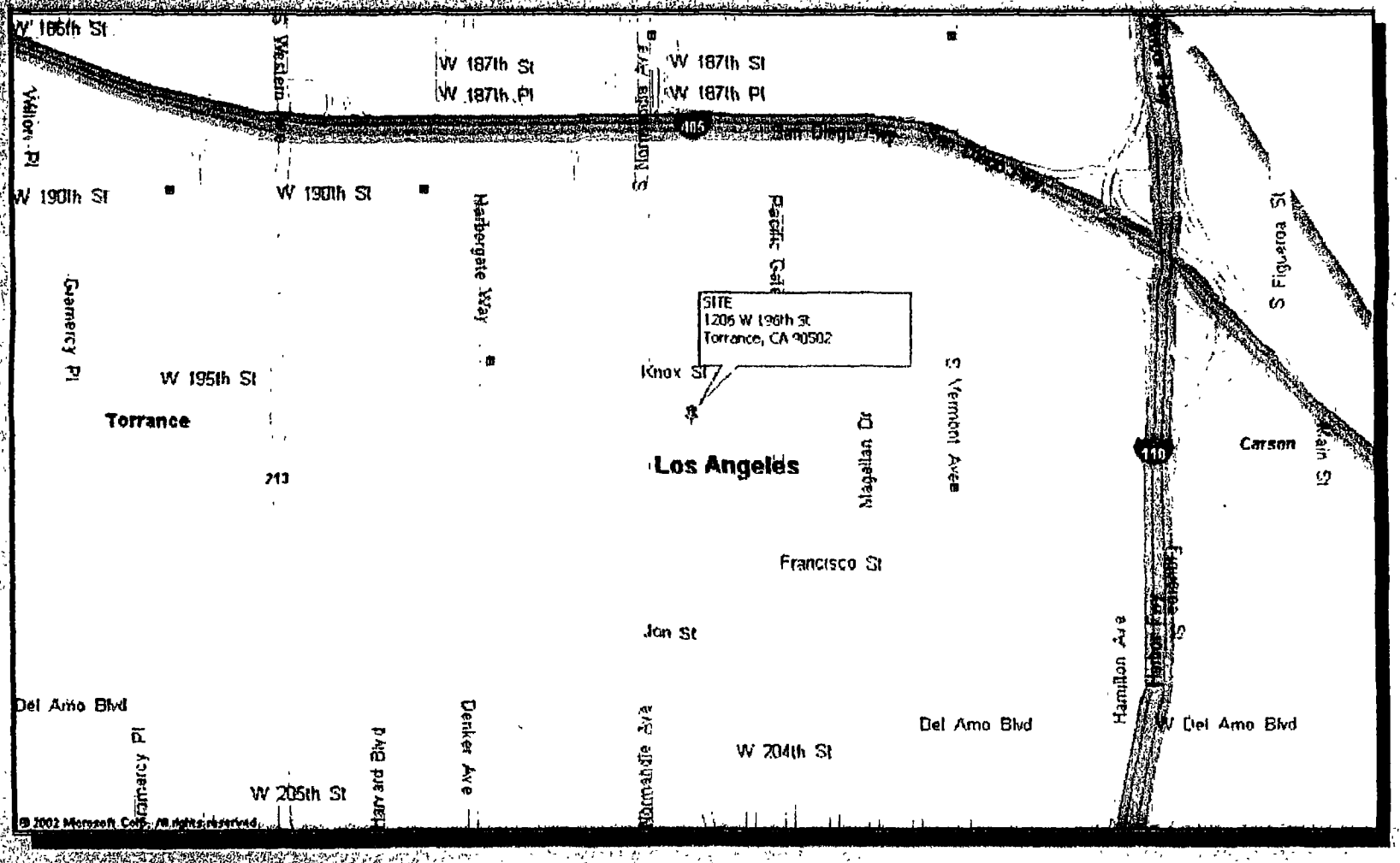
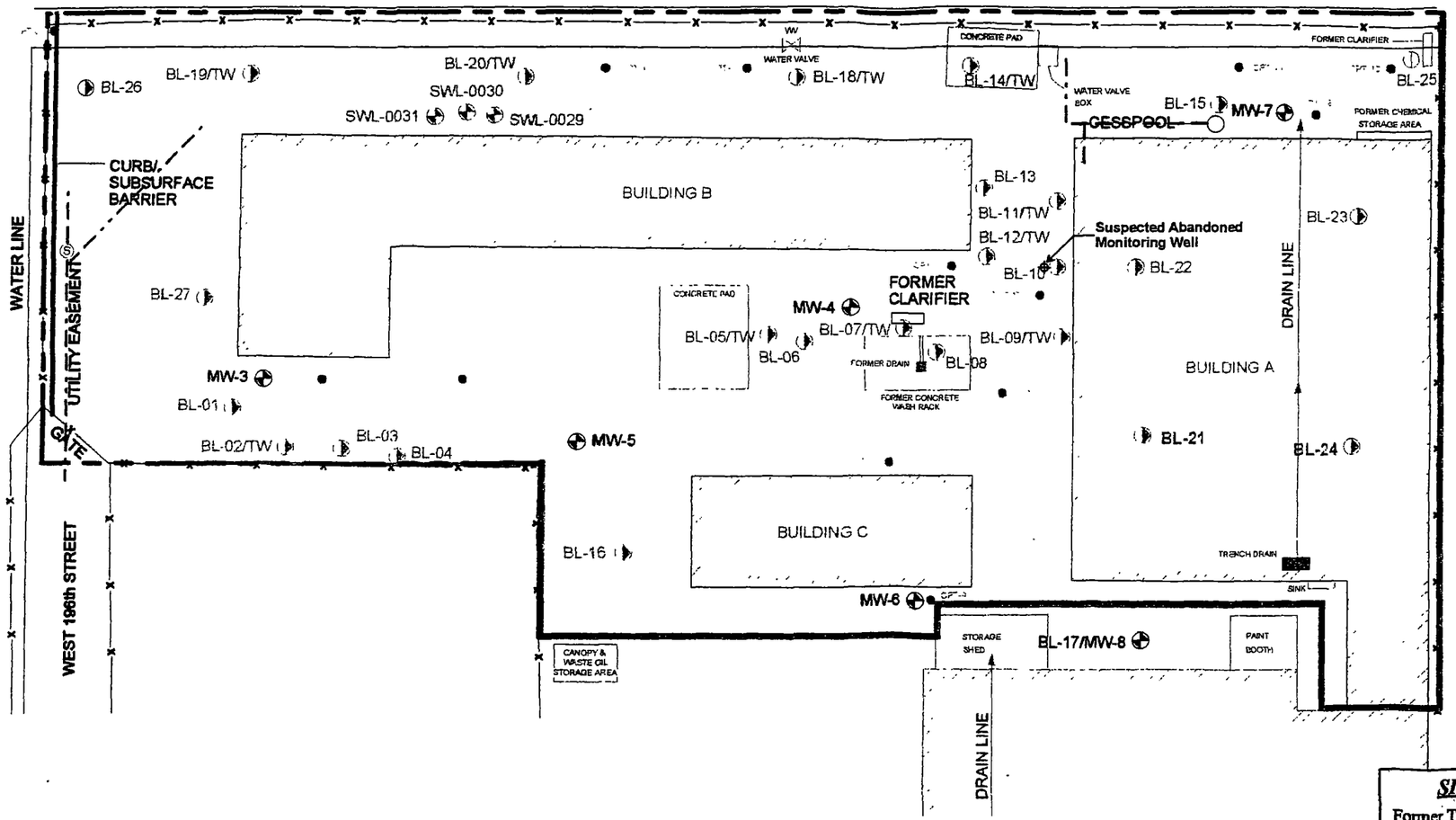



FIGURE 1

# SITE INTERPRETATION MAP

R R Donelly & Sons Co.




**SITE**

Former Trico Facility
1206 W. 196th Street
Torrance, California

**DRAFTED**

22 September 2005

*Not To Scale*

**LEGEND**

sewer line

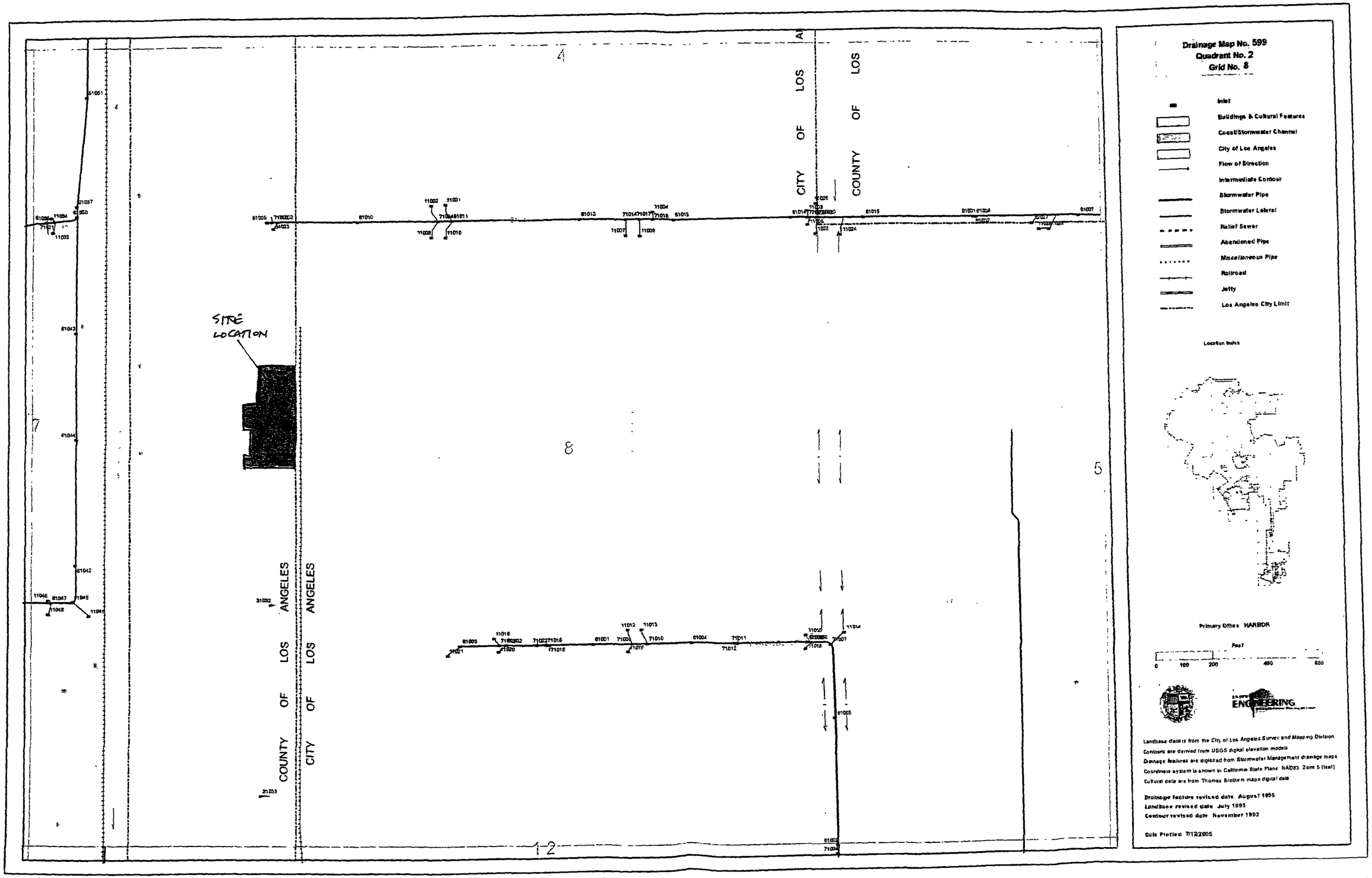
storm drain line

suspected abandoned well

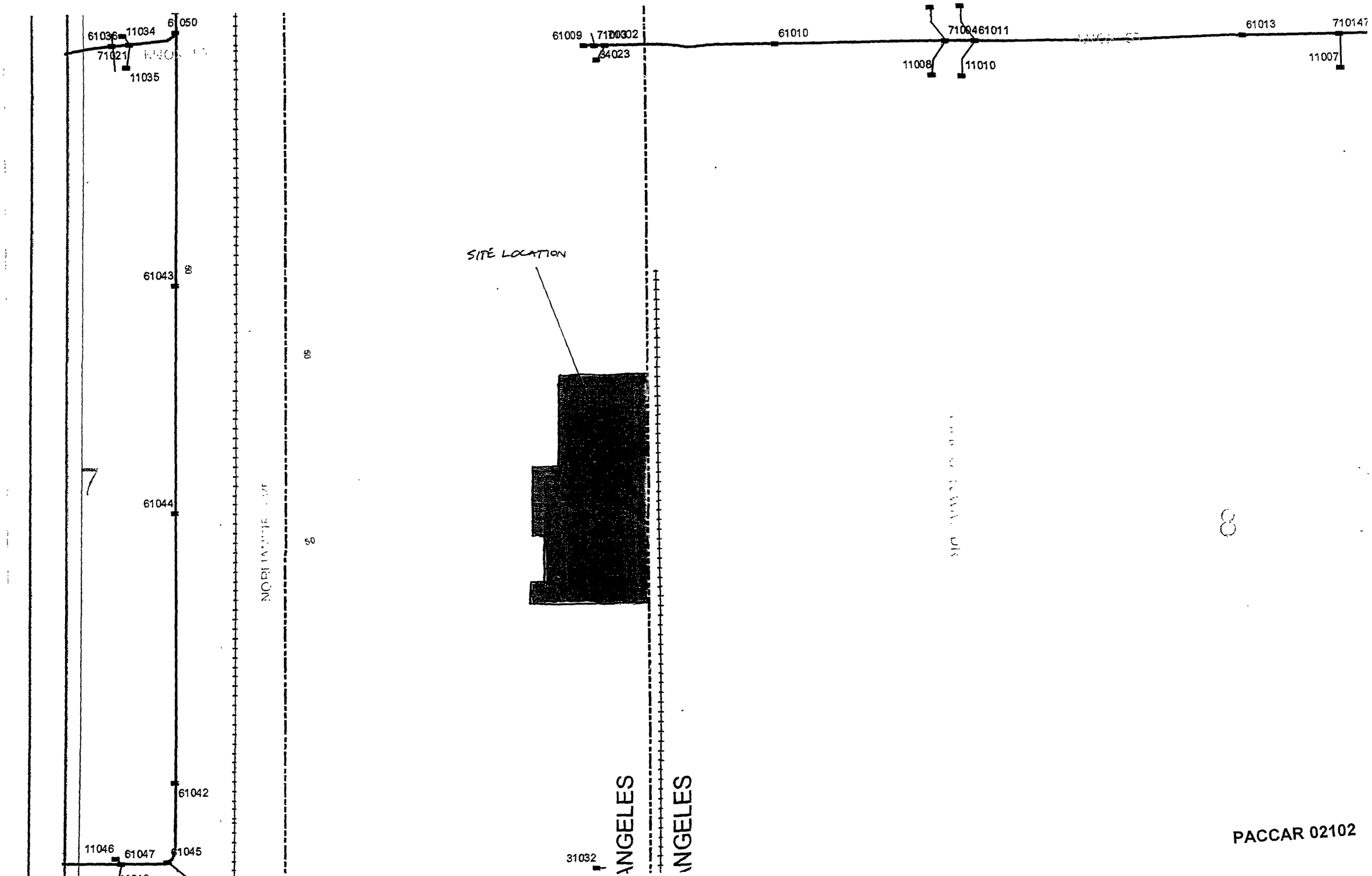
**FIGURE 2**

# APPENDIX B

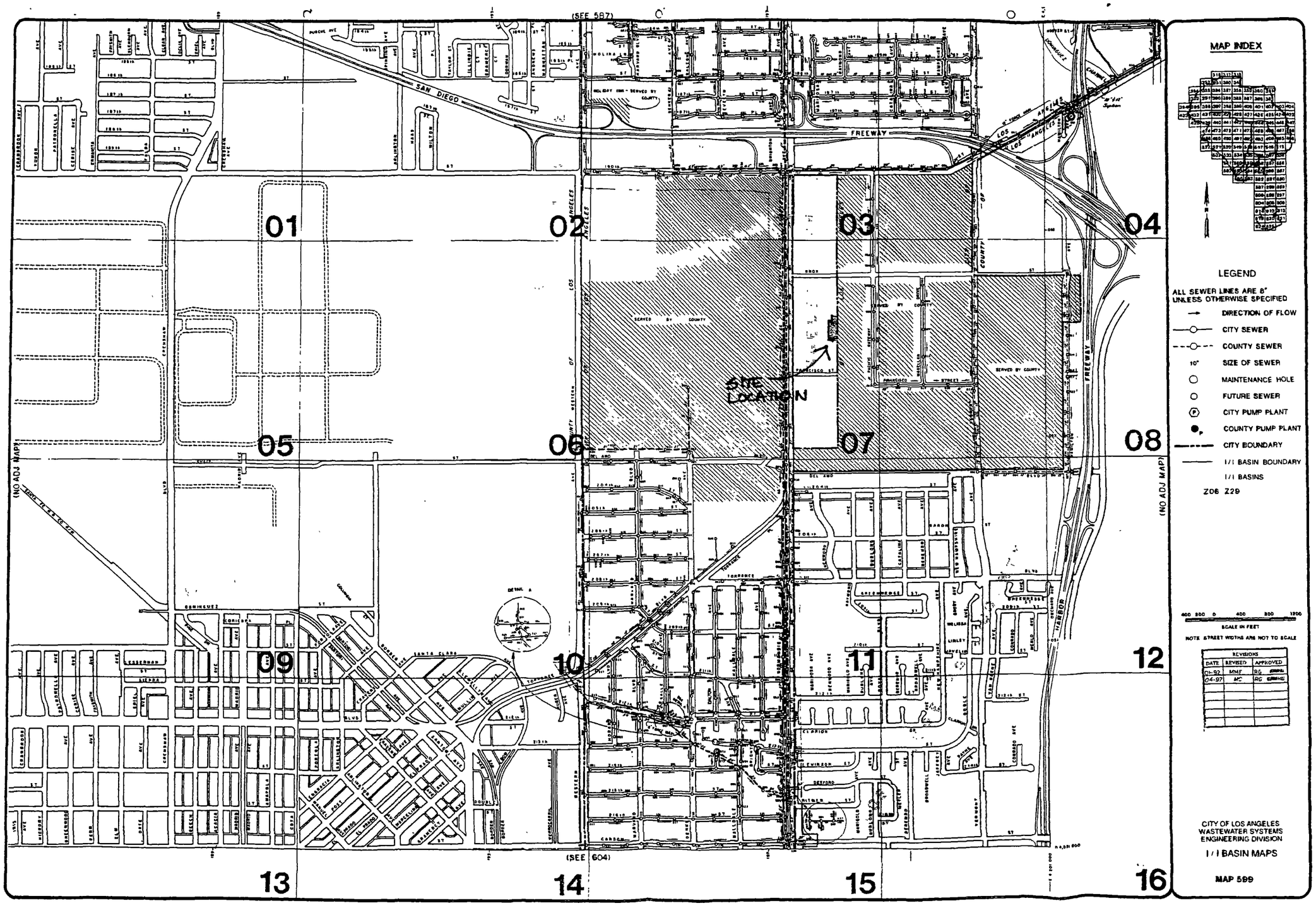
# RESEARCH DATA



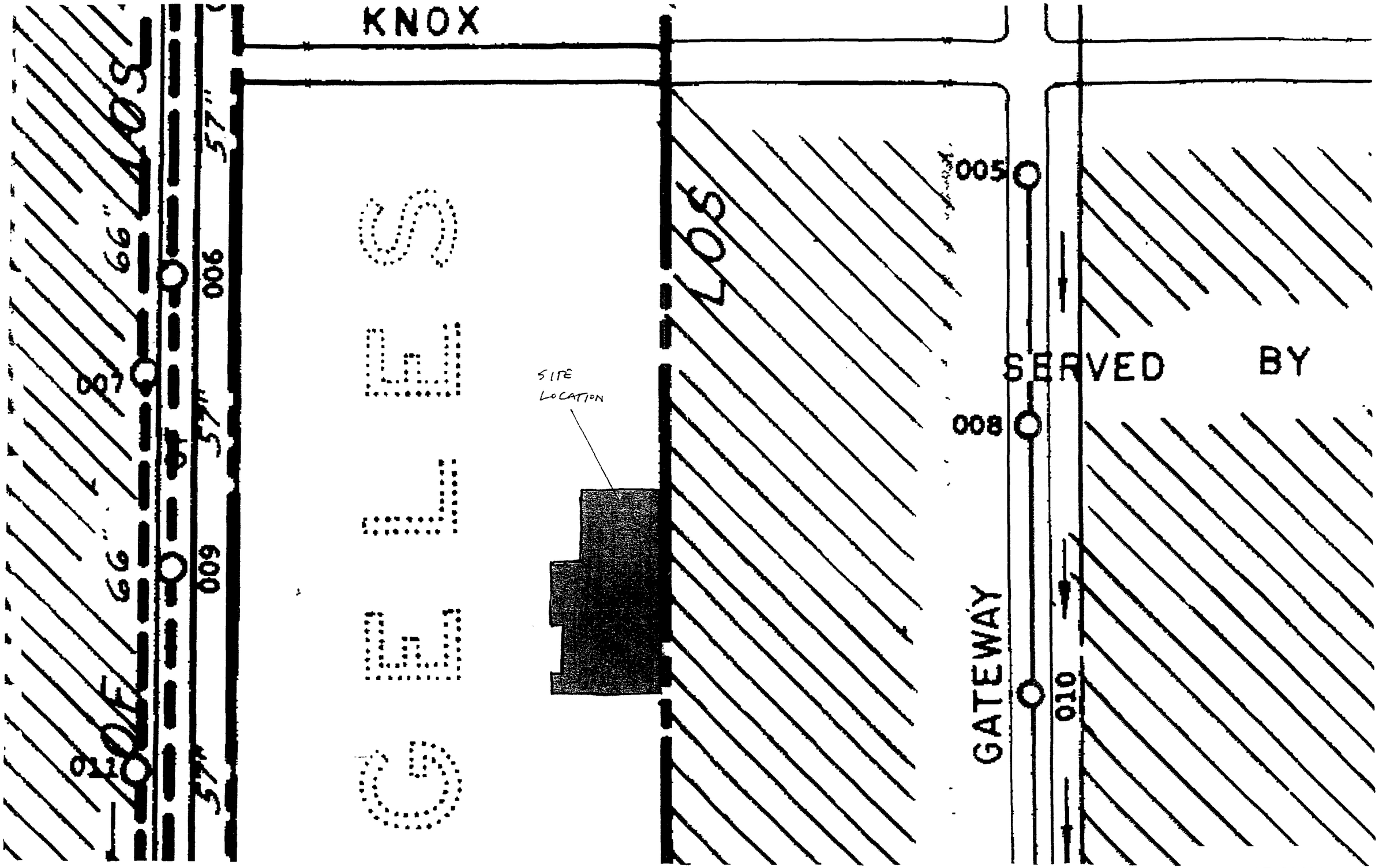

PACCAR 02101




PACCAR 02102




PACCAR 02103




PACCAR 02104

# APPENDIX C

## AMEC Field Notes

amec

# Field Activity Daily Log

Project 1206 W 196th ST, Torrance, CA
Job No. 59IM152680
Day & Date Thurs. 9/8/05

Completed By L Tanyamar
Approved By



**Field Activity Subject:**
Research for Drain line Survey @ City of LA, County of LA

| Time | Description of Daily Activities and Events |
|---|---|
| 0900 | On-site @ City of Torrance Bldg + Safety to get any drawings or information about any sewer lines or storm drain lines coming into the property. Bldg. + Safety told me that they didn't have that information Property not in Torrance city records. |
| 1000 | On-site @ County of LA in Lomita to get any drawings or information on any sewer lines with in the property. After they researched records, they were able to give me one drawing that shows sewer lines + Sewer manhole that appear to be on 196th ST but not on property but just NW outside fence line. |
| 1100 | On-site @ City of San Pedro Bldg + Safety to get any drawings or information about any lines, utility lines on the property. They told me that I need to go the County of LA offices on Temple St |
| 1230 | On-site @ County of LA on Temple St. Found out that this is the wrong office for that kind of information I was told to go to County of LA office on N. Figueroa St. |
| 1315 | On-site @ 201 N Figueroa St · County of LA offices Bldg: + Safety After they researched records, they could not find any drawings or information about this proper |
| 1345 | Called the County of LA information line to see if they can direct me about how to get this informati |
| 1415 | I proceed to the County of LA Public works |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** | **Important Telephone Calls:** |
| Clear, Sunny | Mahesh Mattu |

**Personnel on Site:**

amec

# Field Activity Daily Log

Project 206 W 156th St. Torrance, CA
Job No. 591M152680
Day & Date Thurs. 9/8/05

Completed By L Tanguay
Approved By



**Field Activity Subject:**

| Time | Description of Daily Activities and Events |
|---|---|
| | offices located in Alhambra. |
| 1500 | On-site @ County of LA Public works Division. After |
| | talking to the representative he showed me drawings |
| | of the area, which didn't show me any utility lines |
| | on the property or going into the property. He told me |
| | to try the County of LA office in Lomita, which I |
| | already did. |
| 1545 | Headed back to office, will research Navigate LA |
| | website on the City of LA website for information. |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and Important decisions: |
|---|---|
| — | |
| **Weather Conditions:** | **Important Telephone Calls:** |
| Clear Sunny | Mahesh Mehta, County of LA info line |

**Personnel on Site:**

amec

# Field Activity Daily Log

| | | | |
|---|---|---|---|
| Project | 1206 W. 190th ST, TORRANCE, CA | Completed By | L TANGUAN |
| Job No. | 591M152680 | Approved By | |
| Day & Date | FRIDAY 9/23/05 | Sheet | 1 of 4 |

**Field Activity Subject:** DRAIN LINE SURVEY w/ SUBSURFACE SURVEY & ASSOCIATES

| Time | Description of Daily Activities and Events: |
|---|---|
| 0830 | On site met w/ Tito of Mighty to let him know about survey work on the property. I will stay in contact with him throughout the day. Subsurface Survey (SSS) On-site - Brent Todd Barker + Ryan Merkey. |
| 0845 | Safety meeting conducted by Lloyd Tanguan (AMEC) on site hazards + safe work practices |
| 0900 | Go over scope of work with SSS + hand over various site maps + maps with sewer lines + storm drain lines, and cesspool. SSS start their survey in the back (East Side) of Bldg A at the cesspool. SSS tracing out any underground pipes that lead to + from cesspool. SSS using maps to show the location. See associated maps. |
| 0930 | Call Mahesh M of AMEC to find out about water in East side of Bldg. A. SSS asked about what this is. SSS traced out water lines coming to + from water well box. |
| 0945 | SSS said that associated pipes to cesspool run North + bends east toward water well box but not sure where it goes. Water pipes that run North to South on East side of property interfere with equipment. SSS will put in their report. |
| 1000 | Talked to Tito of Mighty to find out if he knows of any surface drains w/ grates on property so they can use a feed a tracing line in the pipe |

| | |
|---|---|
| **Visitors On Site:** OVERCAST IN AM CLEAR, SUNNY IN PM | **Changes from Plans and Specifications, and other special orders and important decisions:** |
| **Weather Conditions:** | **Important Telephone Calls:** MANY CALLS TO MAHESH METTU Norman of Safety Klean |
| **Personnel on Site:** RYAN MERKEY, TODD BARKER, LLOYD TANGUAN | |

amec

# Field Activity Daily Log

Project 1206 W 196th ST, Torrance, CA
Job No. 591M152680
Day & Date Friday 9/23/05

Completed By Lloyd Tanyuan
Approved By
Sheet 2 of 4

**Field Activity Subject:**

| Time | Description of Daily Activities and Events: |
|---|---|
| | to get better images on survey equipment. Tito said he doesn't know of any. I ask him about opening gate in the back of Bldg A, so SSS can scan & survey inside that area where there use to be an clarifier. Call Mahesh to find out if associated pipes to the clarifier were taken out with the clarifier. SSS to confirm this with survey equipment |
| 1015 | Called Safety Clean & Talked to Norma to find out when they will come pick up. They were suppose to come & pick up 2 55 gal drums full of purge water this morning. Norma will call drivers to find out where they are, and when they can come by to pick them up. |
| 1025 | SSS started surveying around Bldg. B and found a manhole (that was marked on maps). SSS opened manhole to find out direction of sewer lines. Sewer line runs west to east from 196th ST towards back of property. SSS also discovered a sewer line that split off from main sewer line & runs southeast close to bldg. B, but SSS did not find where it ends. |
| 1045 | SSS traced a drain line that runs from inside Bldg A into the back of Bldg A & off property into surface channel. SSS also surveyed inside general area where former clarifier was but did not find any associated pipes. |
| 1050 | I talked to Tito about move some pallets with |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** Overcast - AM, Sunny, Clear - PM | **Important Telephone Calls:** To Mahesh M. To Norma of Safety Klean |

**Personnel on Site:** Ryan Merkey, Todd Barker, Lloyd Tanyuan

amec

# Field Activity Daily Log

Project 1206 W. 196th St. Torrance, CA
Job No. 59M152680
Day & Date Friday, 9/23/05

Completed By Lloyd Tangman
Approved By
Sheet 3 of 4

Field Activity Subject:

| Time | Description of Daily Activities and Events: |
|---|---|
| | equipment on the west side of Bldg. B so SSS can survey to find an abandon well. Called Mahesh to confirm location. |
| 1115 | SSS could not locate the abandon well. Ask Tito to move so more equipment just north of MW-4. Called Mahesh M. again to confirm location of the abandon well. Mahesh will call Mr. Strong of Amec Kirkland, WA. to get a better location of the well. |
| 1130 | SSS started surveying in area east of Bldg. B & west of Bldg. C. Mahesh called back & said the abandon well is somewhere in the area of a former clarifier west of Bldg. B. Talked to Juan the forklift driver & told him the area the needs to be cleared of any materials & equipment to perform survey. He said it will take some time to move all the equipment. SSS go to lunch. |
| 1145 | Called Norma @ Safety Klean to find out the status of the driver to pickup 2 barrels. She said they are close by on another site & will contact them to come by to pick up drums. |
| 1230 | SSS back from lunch, and start surveying around Bldg. A & Bldg. C. Mighty people are still at lunch until 1300, so SSS can't survey around former clarifier. According to SSS, Ryan said that there seems to be surface drain area between Bldg. A & B, by the way the road slants into a |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** overcast - AM<br>Sunny Clear - PM | **Important Telephone Calls:**<br>To Mahesh M.<br>To Norma of Safety Klean |

Personnel on Site: Todd Barker, Ryan Merkey, Lloyd Tangman

amec

# Field Activity Daily Log

Project: 1206 W. 196th St. Torrance, CA
Job No. 591M12680
Day & Date: Friday 9/23/05

Completed By: Lloyd Tanyuan
Approved By:
Sheet 4 of 4

**Field Activity Subject:**

| Time | Description of Daily Activities and Events: |
|---|---|
| | "V" & just runs off the property. SSS used a tracing line in the pipe of the cesspool to find out exactly where pipe runs & to see if still active. |
| 1245 | Called Norma of Safety Kleen to tell her that if the driver can't come by 2:00 pm then we will have to reschedule the pick-up for another day. Called Mahesh to rely the message about the pick-up. He said he will call Safety Kleen. |
| 1300 | SSS & I were waiting for Mighty to start moving more equipment & material from area around former clarifier. I went to talk to Tito to remind him that we need this things moved. SSS continued with their survey, taking pictures going over areas again to make sure they didn't miss anything. |
| 1330 | Called Norma @ Safety Kleen to remind her that 2:00 pm is the latest they can come to pick-up drums. SSS still waiting for the forklift arrives & move equipment and materials from the area where a former clarifier was. I notice some water pooling on property with water that looks contaminated with some unknown substance & a little oily sheen I noted on a drawing. |
| 1400 | After that to leave site. SSS stay on site to look for abandon well by former clarifier. Re-scheduled drum pick-up with Safety Kleen for another day. |
| | — End of Page — |

| Visitors On Site: | Changes from Plans and Specifications, and other special orders and important decisions: |
|---|---|
| — | |
| **Weather Conditions:** Overcast in AM, Clear Sunny in PM | **Important Telephone Calls:** To Mahesh Mettu (AMEC), To Norma Safety Kleen |

**Personnel on Site:** Ryan Murkey, Todd Barker, Lloyd Tanyuan

## AMEC Earth & Environmental, Inc.
## Tailgate Safety Meeting Report *(continued)*

amec

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments: Performed work will be observed for any unsafe practices & corrected immediately.

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

| Name (print) | Company | Signature |
|---|---|---|
| LLOYD TANGUNAN | AMEC | [illegible] |
| TODD BARKER | SSS | [illegible] |
| RYAN T. MERKEY | SSS | [illegible] |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Meeting conducted by: LLOYD TANGUNAN *(print)* Title: FIELD TECHNICIAN

Signature: [illegible] Time: 0845

Health and Safety/Forms/VOLUME II/Tailgate.FH8

## AMEC Earth & Environmental, Inc.
## Tailgate Safety Meeting Report *(continued)*

amec

Observations of unsafe work practices/conditions that have developed since previous meeting: NONE

Location of (or changes in the locations of) evacuation routes/safe refuge areas: NONE

Additional comments: Performed work will be observed for any unsafe practices & corrected immediately.

Attendee signatures below indicate acknowledgment of the information and willingness to abide by the procedures discussed during this safety meeting.

| Name (print) | Company | Signature |
|---|---|---|
| LLOYD TANGUNAN | AMEC | [illegible] |
| TODD BAKER | SSS | [illegible] |
| RYAN T. MERCER | SSS | [illegible] |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Meeting conducted by: LLOYD TANGUNAN *(print)* Title: FIELD TECHNICIAN

Signature: [illegible] Time: 0845

Health and Safety/Forms/VOLUME II/Tailgate.FH8

# APPENDIX D

## OLD PERMITS, SEWER PLANS, AND SITE PHOTOS

76A642D
B & E-663 3-58

# APPLICATION FOR PERMIT

## SEWER—SEWAGE DISPOSAL

1

DIVISION OF BUILDING AND SAFETY
Department of County Engineer
County of Los Angeles
WM. J. FOX, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 1206 W. 196th St.
LOCALITY Torrance
NEAREST CROSS ST. Normandie
OWNER Amer Chem Solv Co.
MAIL ADDRESS
CITY TEL. NO.

### FOR APPLICANT TO FILL IN

LEGAL DESCRIPTION LOT NO. Legal in file
BLOCK TRACT
SIZE OF LOT NO. OF BLDGS. NOW ON LOT
USE OF BUILDINGS
CONTRACTOR M.C. Nottingham Coof So Cal.
ADDRESS 4928 No. Walnut Grove
CITY San Gabriel TEL. NO. CU 32311
REGISTRATION NO. 147012 ☒ STATE ☐ COUNTY

| NO. | DESCRIPTION OF WORK | FEE | | |
|---|---|---|---|---|
| | HOUSE SEWER CONNECTING TO PUBLIC SEWER | @ $ 3.50 | | |
| 1 | HOUSE SEWER CONNECTING TO PRIVATE DISPOSAL SYSTEM | 1.00 | 1 | 00 |
| | CONNECT ADDITIONAL BLDG. OR WORK TO HOUSE SEWER | 1.00 | | |
| | ALTER OR REPAIR EXISTING SEWER OR DISPOSAL SYSTEM | 1.00 | | |
| | DISCONNECT AND ABANDON SEWER AND/OR DISPOSAL SYSTEM | 1.00 | | |
| 1 | SEPTIC TANK, SEEPAGE PIT OR PITS AND/OR DRAINFIELD | 3.00 | 3 | 00 |
| 1 | CESSPOOL - DRYWELL SPECIAL CONDITIONS ONLY | 2.00 | 2 | 00 |
| | | | | |

| OWNER'S AUTHORIZATION | | | |
|---|---|---|---|
| PERMIT | $ | 1 | 00 |
| TOTAL FEE | | 7 | 00 |

I HAVE THIS DATE CONTRACTED WITH THE HEREIN NAMED CONTRACTOR TO CONNECT THE ABOVE DESCRIBED EXISTING DWELLING TO THE PUBLIC SEWER

SIGNED THIS _____ DAY OF _____ 19__

OWNER OR OWNERS AGENT New
ADDRESS

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING PLUMBING AND SEWERS.

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND/OR LICENSED AS REQUIRED BY LOS ANGELES COUNTY AND STATE OF CALIFORNIA OR THAT I AM THE LEGAL OWNER OF THE ABOVE DESCRIBED RESIDENTIAL PROPERTY.

SIGNATURE OF PERMITTEE Randall McGrane

| DISTRICT NO. | GROUP | MAP BK | PG |
|---|---|---|---|
| 7 | E-2 F-2 | | |

### CONNECTION DATA

STATION DEPTH
MANHOLE REFERENCE UPPER / LOWER
TYPE OF CONNECTION Y. CURB P.L. LENGTH FROM M.L. TO P.L.
CO. IMP. NO. P. C. NO. JOB NO.
TRUNK PERMIT NO. ROAD PERMIT NO.
STATE ENCROACHMENT PERMIT NO.
INDUSTRIAL WASTE APPROVAL

CHARGES

CONNECTION CHARGE FEE
REIMBURSEMENT FEE

| APPROVALS | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| NEW HOUSE SEWER | | |
| CONNECT ADDITIONAL BUILDING OR WORK | | |
| SEPTIC TANK, SEEP. PIT(S) AND/OR DRAINFIELD | 4-1-57 | Bosnak |
| CESSPOOL ☐ DRYWELL ☒ | 4-22-57 | Bosnak |
| ALTER, REPAIR, SEWER OR SEWAGE DISPOSAL SYSTEM | | |
| DISCONNECT PLUG AND ABANDON HOUSE SEWER | | |
| BACKFILL SEPTIC TANKS ☐ SEEP. PIT(S) ☐ CESSPOOLS ☐ | | |

WILLIAM J. FOX, COUNTY ENGINEER VALIDATION R. A. WOOD, CHIEF PLBG. INSPECTOR

LAC 28655 MAR 22 4 7.00

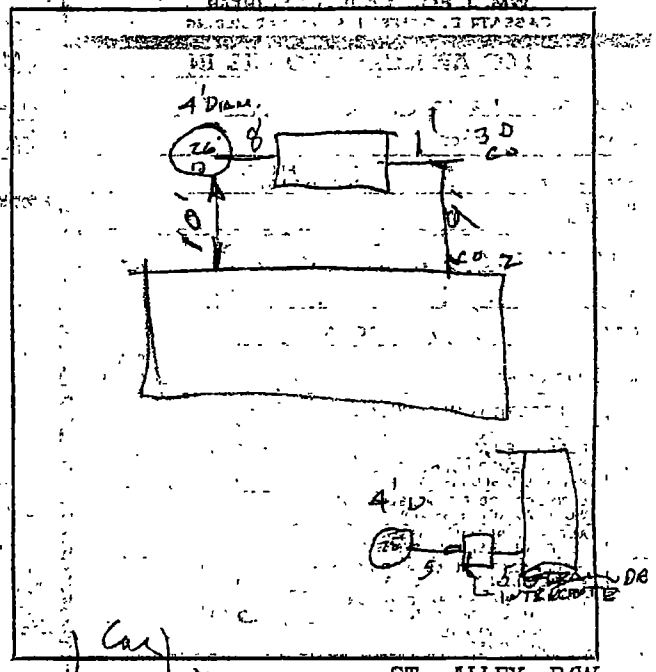
M Laub

PACCAR 02115

FOR DEPARTMENT USE

REQUIRED INFORMATION

1. INDICATE ALL BUILDINGS ON PROPERTY.
2. INDICATE AND DIMENSION SEWAGE DISPOSAL SYSTEM WITH TIE DISTANCES TO BUILDINGS AND PROPERTY LINES.
3. INDICATE SIZE OF SEPTIC TANK—DEPTH OF SEEPAGE PIT(S)—SIZE OF CESSPOOL(S)
4. INDICATE NORTH DIRECTION ON PLOT.
5. INDICATE BOTH STREETS IF CORNER.




FIELD NOTES

CE808A 4/72
76A642L

# APPLICATION FOR PERMIT

1

COUNTY OF LOS ANGELES
DEPARTMENT OF COUNTY ENGINEER
BUILDING AND SAFETY DIVISION

## SEWER–SEWAGE DISPOSAL

BUILDING ADDRESS: 1306 W 196th ST.
LOCALITY: Gardena
NEAREST CROSS ST.: Normandie
OWNER: B & W. Inc
MAIL ADDRESS: 19706 S. Normandie
CITY: Gardena TEL. NO. 324-1106

### FOR APPLICANT TO FILL IN

LEGAL DESCRIPTION — LOT NO. Portion 6
BLOCK — TRACT 4671
SIZE OF LOT — NO. OF BLDGS. NOW ON LOT
USE OF BUILDINGS
CONTRACTOR: Atlas Cesspool Service
ADDRESS: P.O. Box 745
CITY: Lanille TEL. NO. 326-0418
STATE LICENSE NO. 110675 LIC CLASS C-42

| NO | DESCRIPTION OF WORK | FEE | |
|---|---|---|---|
| 1 | HOUSE SEWER CONNECTING TO PUBLIC SEWER @ | 7 | 00 |
| | SEPTIC TANK, SEEPAGE PIT OR PITS AND/OR DRAINFIELD @ | | |
| | HOUSE SEWER CONNECTING TO PRIVATE DISPOSAL SYSTEM @ | | |
| | CONNECT ADDITIONAL BLDG. OR WORK TO HOUSE SEWER @ | | |
| | OVERFLOW SEEPAGE PIT, DRAINFIELD EXTN., CESSPOOL, DRYWELL, MANHOLE @ | | |
| | ALTER, REPAIR OR ABANDON HOUSE SEWER OR DISPOSAL SYSTEM @ | | |
| | | | |
| | | | |

| OWNER'S AUTHORIZATION | | | |
|---|---|---|---|
| | PERMIT | $ 3 | 00 |
| | TOTAL FEE | 10 | 00 |

I HAVE AT THIS DATE A CONTRACT WITH THE HEREIN NAMED CONTRACTOR TO CONNECT THE ABOVE DESCRIBED EXISTING DWELLING TO THE PUBLIC SEWER.

SIGNED THIS _____ DAY OF _____ 19__

OWNER OR OWNERS AGENT _____

ADDRESS _____

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING PLUMBING AND SEWERS.

I HEREBY CERTIFY THAT I AM PROPERLY REGISTERED AND/OR LICENSED AS REQUIRED BY LOS ANGELES COUNTY AND STATE OF CALIFORNIA OR THAT I AM THE LEGAL OWNER OF, AND INTEND TO RESIDE IN, THE ABOVE DESCRIBED RESIDENTIAL PROPERTY.

SIGNATURE OF PERMITTEE [signature]

| DISTRICT NO. | GROUP | MAP BK | MAP PG | PROCESSED BY |
|---|---|---|---|---|
| 12 | F2 | V | 28 | Bewley |

### CONNECTION DATA

STATION 6-61 DEPTH 10'
MANHOLE REFERENCE 4' W of (UPPER / LOWER)
TYPE OF CONNECTION: Y. CURB P.L. — LENGTH FROM M.L. TO P.L.
CO. IMP. NO. 2450 — P.C. NO. JOB NO.
TRUNK PERMIT NO. — ROAD PERMIT NO.

| AFFIDAVIT | WAIVER | EASEMENT | RECORD. INSTR. NO. | DATE |
|---|---|---|---|---|
| | | | | |

HWY. OR ST. WIDENING
STATE ENCROACHMENT PERMIT NO.
INDUSTRIAL WASTE APPROVAL

CHARGES
CONNECTION CHARGE FEE
REIMBURSEMENT FEE

| APPROVALS | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| NEW HOUSE SEWER | 11-23-76 | [signature] |
| CONNECT ADDITIONAL BUILDING OR WORK | | |
| SEPTIC TANK, SEEP. PIT (S) AND/OR DRAINFIELD | | |
| CESSPOOL ☐ DRYWELL ☐ | | |
| ALTER, REPAIR, SEWER OR SEWAGE DISPOSAL SYSTEM | | |
| DISCONNECT PLUG AND ABANDON HOUSE SEWER | | |
| BACKFILL SEPTIC TANKS ☐ SEEP. PIT (S) ☐ CESSPOOLS ☐ | | |

INSPECTOR COPY

VALIDATION
(CK.) M.O. CASH

LAC 8940 NOV 1210 A 10.00 S

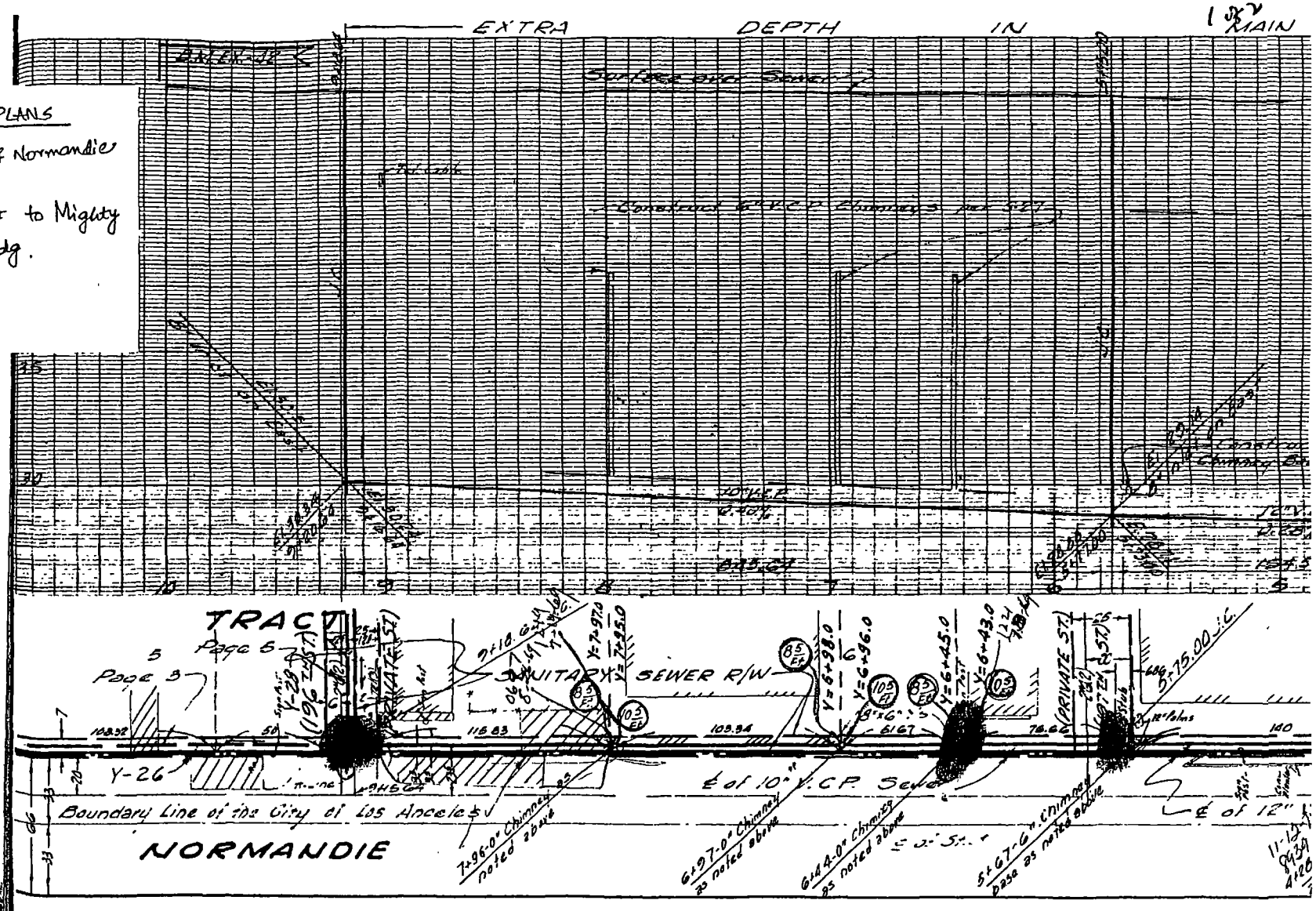
Bewley

PACCAR 02117

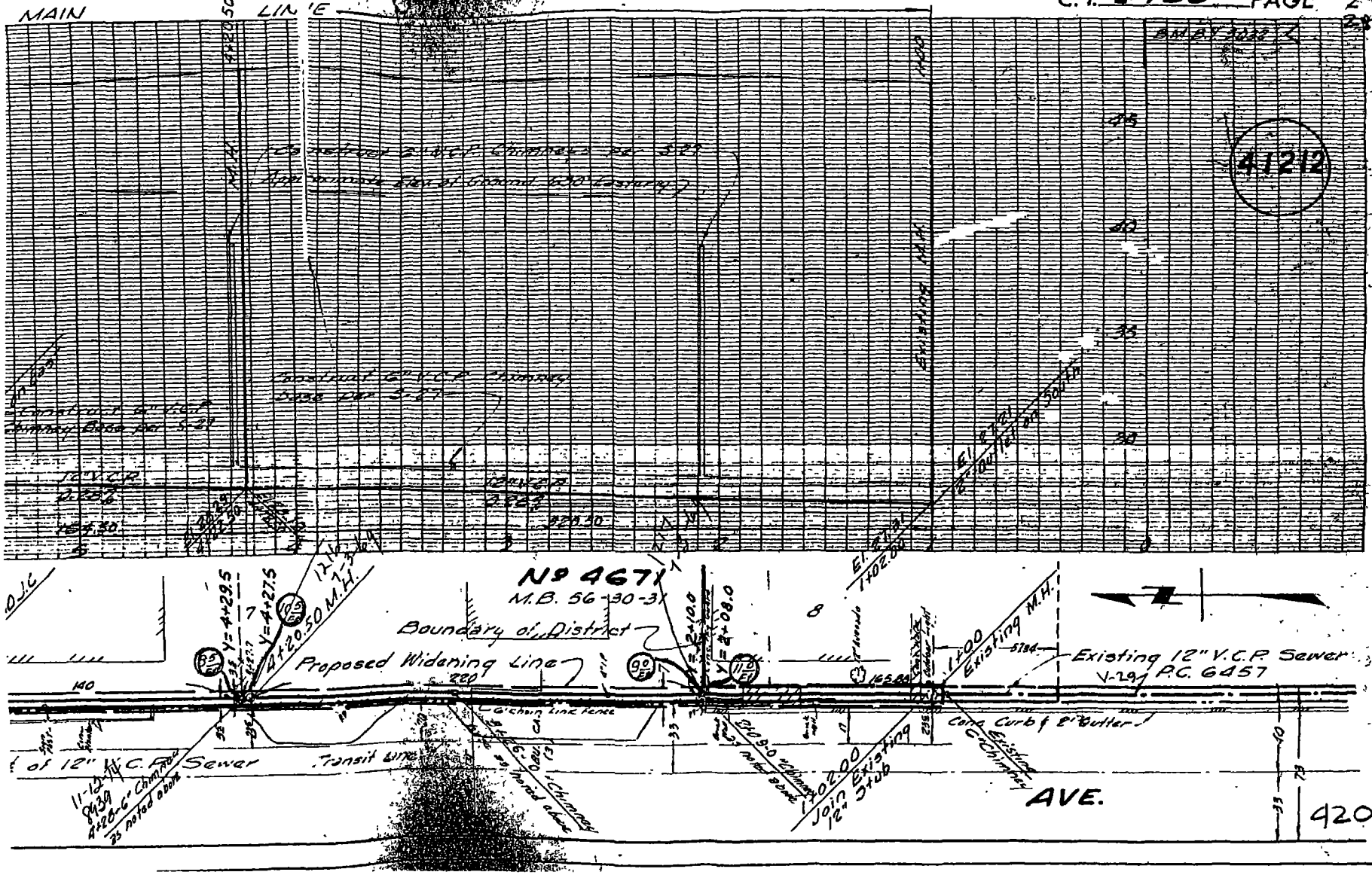
SEWER PLANS

① 196th st & Normandie

② adjacent to Mighty office Bldg.




PACCAR 02118


MAIN LINE
4+29.50
Connect 2"-6" V.C.P. Chimney as per S-27
Approximate Elev. of Ground 6.80 Existing
Connect 6" V.C.P. Chimney Base per S-27
Connect 2" V.C.P. Chimney Base per S-27
12" V.C.P.
Existing M.H.
4+20.50 M.H.
Y=4+29.5
Y=4+27.5
Nº 4671
M.B. 56-30-31
Boundary of District
Proposed Widening Line
Existing 12" V.C.P. Sewer
V-29 P.C. 6457
Existing M.H.
Transit Line
Chain Link Fence
Join Existing 12" Stub
Cont. Curb & 8" Gutter
Existing 6" Chimney
AVE.
4208
4121.2

TRICO INDUSTRIES, INC.
P.O. Box 108 • 15707 South Main Street, Gardena, California 90247 • (213) 516-5000
KOBE HYDRAULIC PUMPS

TRICO INDUSTRIES, INC.

Environmental Permit and Related Documents

Torrance Facility

1. Permit - Los Angeles Fire Department
   Abandon gasoline storage tank (1/15/87). Refiled as Application for Closure Permit - Los Angeles County Department of Public Works

2. Violation No. 268806 - Los Angeles County D.O.H.S. (4/25/83).
   Oil spill and clean-up with response of 10/5/83.

3. Permit L18847SFS - LPG tank (Cal OSHA)

4. Permit M216878 - paint dip tank (S.C.A.Q.M.D.)

F-350

| | | |
|---|---|---|
| Granted 1/15/87<br>Expires 1/15/88 | **Fire Department**<br>**City of Los Angeles**<br>**PERMIT** | Reg. No. 55515<br>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

PACCAR 02121

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

B

**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

SCS ENGINEERS
STEARNS CONRAD AND SCHMIDT
CONSULTING ENGINEERS INC
4014 LONG BEACH BOULEVARD
LONG BEACH CALIFORNIA 90807 2687
(213) 426-9544

ROBERT P STEARNS PE
E T CONRAD PE

Terrill J Chang PE
Miles J Haven
Michael W McLaughlin
Gary L Mitchell PE
Dean A Richesin CEG
David E Ross PE
Krishan K Saigal PE
William L Schuben
James J Walsh, PE

July 16, 1987
File No. 18719.00

Mr. John Huff
County of Los Angeles
Department of Public Works
1540 Alcazar Street
Los Angeles, California 90033

Dear John,

Enclosed please find the completed permit application and related information for the Trico Industries Torrance facility. This facility had a 500 gallon underground unleaded gasoline storage tank removed on or about 1/15/87, and were granted a permit by the City of L.A. Fire Department. An inspector from the Fire Department was present during the removal of the tank, and soil samples taken during the tank removal reportedly were free of any contamination.

On 5/17/87, SCS Engineers preformed a preliminary site investigation at the Trico Industries Torrance facility. As is shown in the attached diagram, an exploratory boring was drilled to a depth of 20 feet through the center of the pit where the tank was formerly located. Soil samples were obtained at five-foot intervals using a modified California Split Spoon Sampler. The ten and fifteen foot samples were analyzed for BTX and TRPH; both samples showed no contamination. The associated boring log and Chain-of-Custody form are included, as is the permit granted by the Fire Dept.

Based on previous experience in the Torrance area, we know ground water will be encountered between 85 to 100 feet below grade.

Please call if you have any questions or require any additional information.

Very truly yours,

Greg Helland
Geologist
SCS Engineers

# CHAIN OF CUSTODY RECORD

SCS ENGINEERS

PERSONNEL

Sampler (Signature) Greg Holland

Phone 426-9544

Field Crew Supervisor Manuel

Field Company H-F Drilling

Project Geologist/Engineer Greg Holland

SITE INFORMATION

Job Name Trico

Job Number 18719

Sample Location 19706 Normandie Torrance

P.O. Number

| Relinquished by (Signature) | Received by (Signature) | Date | Time |
|---|---|---|---|
| Greg Holland | [illegible] | 5/12/87 | 3:09 |
| Relinquished by (Signature) | Received by (Signature) | Date | Time |
| | | | |

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

| Sample Number | Sample Type | No. of Cont. | Site Identification | Date Sampled | Analysis Requested | Sample Cond. Upon Receipt |
|---|---|---|---|---|---|---|
| BH1-5 | Soil | 1 | Torrance | 5/12 | archive | |
| 10 | | | | | BTX/TRPH | |
| 15 | | | | | " | |
| 20 | | | | | archive | |
| BH2-5 | | | | | 8010/8020 | |
| 10 | | | | | 8010/8020 | |
| 15 | | | | | archive | |
| 20 | | | | | archive | |
| BH3-5 | | | | | 8010/8020 | |
| 10 | | | | | 8010/8020 | |
| 15 | | | | | archive | |
| 20 | | | | | archive | |
| BH4-5 | | | | | 8010/8020 | |
| 10 | | | | | 8010/8020 | |
| 15 | | | | | archive | |
| 20 | | | | | archive | |

Remarks: Pg 1 of 2

County of Los Angeles
Department of Health Services
Division
Program
(OFFICE ADDRESS)

# OFFICIAL NOTICE OF VIOLATION № 268806

County of Los Angeles Department of Health Services

Preventive/Public Health — Environmental Management

Plot 2

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. FURTHERMORE

(2) REMOVE AND/OR LEGALLY DISPOSE OF HAZARDOUS WASTE AND MATERIALS CONTAMINATED WITH HAZARDOUS WASTE. HAZARDOUS WASTE MUST BE DISPOSED OF TO AN AUTHORIZED DISPOSAL SITE (i.e. 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 [illegible] 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 02125

County of Los Angeles
Department of Health Services
Occupational Health Division
Hazardous Waste Control Program
2615 S. Grand Ave. 6th Floor
Los Angeles, CA 90007
OFFICE ADDRESS

# OFFICIAL NOTICE OF VIOLATION No 268806 ~~268807~~

County of Los Angeles Department of Health Services
Preventive/Public Health Environmental Management

P 20 PL

DATE 4/25/83

TO TRICO INDUSTRIES ADDRESS 19706 S. NORMANDIE AVE TOR 90502

SUBJECT HAZ. WASTE CONTROL ADDRESS 19706 S NORMANDIE AVE TOR 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 NAMES, ADDRESSES, AND TEL # OF CLEAN-UP COMPANY & DISPOSAL SITES
(C) TIMES & DATES OF CLEAN-UP.
(D) A METHOD

BY 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. Kobrskegur /

TITLE

760296 H 777 (REV 3/75) 5/81

(WHITE VIOLATOR YELLOW SANITARIAN PINK DISTRICT DIRECTOR)

[redacted]

[redacted]

PACCAR 02126

Los Angeles
Health Services

(OFFICE ADDRESS)

# HEARING NOTICE No. 243659

County of Los Angeles Department of Health Services

Preventive/Public Health — Environmental Mangement

ATTN: Leo Cahill

DATE June 1, 1983, 19

TO Trico Industries 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:

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-778 (REV. 3-75)
76H376A — 8/81

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

[redacted]

[redacted]

PACCAR 02127

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 NO. S-605 (REV. 4-82)

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

No. L 18847

# 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 (N E yard) |
|---|---|
| Trico Industries | 19706 S. Normandie, Torrance, CA 90502 |

Date of Inspection

03-19-86 05-30-86 60.00

PAID
JUN 20 1986
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 SAFET

GUIN ⓘT OSP

PACCAR 02129

South Coast
AIR QUALITY MANAGEMENT DISTRICT

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

JULY 16, 1987

TRICO IND INC, B & W DIV ID - 008599
P.O. BOX 4356
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



PACCAR 02130

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 - 008599

PERMIT RENEWALS

| PERMIT NUMBER | DESCRIPTION | APPLIC NUMBER | EXPIRATION DATE |
|---|---|---|---|
| M21678 | TANK, PAINT DIP | C39824 | 08/16/88 |



17.

PACCAR 02131

RECEIVED

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<br>S/N 62SH1909<br>W/H 333kVA/16 | N.D. <2 |
| 88-0549-2 | 03/03/88 | Transformer oil<br>S/N C21933-1-1<br>Penn 333kVA/16 | N.D. <2 |
| 88-0549-3 | 03/03/88 | Transformer oil<br>S/N C21933-1-3<br>Penn 333kVA/16 | N.D. <2 |

PCB RESULTS ONLY.