

**C O V E R**

**FAX**

**S H E E T**

**To:** eva chu, Hazardous Materials Specialist, ACHCSA  
**Fax #:** 510-337-9335  
**Subject:** San Leandro - Printpack Report  
**Date:** August 4, 1998  
**Pages:** 18, including this cover sheet.

**FROM:** Ed Shaw - CTEC-ESCM, Inc.

I will call later this week. Hard copy is in the mail.

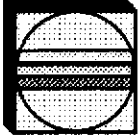
Thanks,

Ed.

From the desk of...

**CTEC-ESCM, Inc.**  
P.O. Box 387  
Monroe, UT 84754

PH 435-527-3103  
Fax 435-527-3047



# CTEC-ESCM, Inc.

"Saving the Earth"

P.O. Box 271  
Pinellas Park, FL 33780  
(813) 573-4471  
Fax (813) 572-7831

August 4, 1998

Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Attn: eva chu, Hazardous Materials Specialist

Subject: Air Sampling Report  
Printpack, Inc.  
2101 Williams Street  
San Leandro, Alameda County, California

98 AUG -9 AM 8:45  
ENVIRONMENTAL  
PROTECTION

Dear Ms. chu;

The subject report is forwarded pursuant to our discussions of July 1, 1998. I will call to discuss it with you after you have had an opportunity to review it.

Basically, the soil gas sampling indicates that there are no chlorinated gaseous compounds in the areas sampled. The indications are that there are no exposure pathways of concern in regards to humans or the environment.

We appreciate your working with us in the field and in reviewing the collected data on this project. If you have questions before I call, you can reach me at (435) 527-3103.

Sincerely,

Edward A. Shaw, PE  
President

- cannot compare SV samples to PPM - much convert.  
MATTG  
$$\text{mg/m}^3 = \frac{(\text{PPM})(\text{MW})}{24.45}$$

**Air Sampling Report  
Printpack, Inc.  
2101 Williams Street  
San Leandro, Alameda County, California  
August 4, 1998**

**CTEC-ESCM, Inc.  
11443 43<sup>rd</sup> Street North  
Clearwater, Florida 33762  
(813) 573-4471**

## TABLE OF CONTENTS

### REPORT

HISTORY

Page 1

CONCLUSIONS AND RECOMMENDATIONS

Page 4

### TABLES & GRAPHS

Table 1 - Groundwater Elevation Data summary

Table 2 - Groundwater Sample Analytical Results

Table 3 - Acetone concentrations in Monitor Well "W-10"

Graph - Concentrations of Acetone in Groundwater

### FIGURES

Figure 1 - Site Map

Figure 2 - Groundwater Isopleths

Figure 3 - Soil Gas Sample Locations

Figure 4 - Topographic Map of Area

CTEC-ESCM, Inc has been commissioned by Printpack to provide environmental services at their San Leandro Plant. The following report is presented as part of these services.

## **HISTORY**

The original building was constructed in 1943 by Western Waxide, a producer of wax coated paper products. Crown Zellerbach subsequently acquired the property and sold it to James River Corporation in 1988. James River Corporation used the property as a flexible coatings plant until they sold it to Printpack, Inc. in late 1996. Printpack closed the facility in 1997 and placed it on the market for sale. There are approximately 12.7 acres included with the property. (Figure 1)

The facility is surrounded by numerous industrial and storage facilities. The Dom Tar Company is located to the south and east of the Printpack property. Norcal Pottery is east of the facility. An industrial recycling center is located just south of the property. The Scott Company, the Olympia Gas Company, and the Bettes Spring Company are located north and northwest of the property. American Can and Silgen Containers are northeast of the property.

The Alameda County Health Care Services Agency (ACHCSA) has identified two upgradient, offsite, sources of chlorinated hydrocarbon releases. These are known as the "Williams Street Site" and the "Caterpillar Site". It is noted that the Singer-Friden site is also somewhat upgradient of the site. The California Lust List indicates that there are 16 upgradient sites within one half mile of the facility with reported leaks. One of these is the Scott Company that is located just north of the property. The California Environmental Protection Agency/Office of Emergency Information's CORTESE List identifies 34 upgradient sites within a mile of the Printpack property that have had a release of hazardous substances.

The ACHCSA notified James River Corporation on August 20, 1996, that the agency's concerns with the site were:

1. Removal of the then free-phase hydraulic fluid from the vicinity of monitor well TW-1;
2. Acetone had been documented as having been used by Crown Zellerbach at the site in 1964; and
3. James River was to adhere to an annual (1<sup>st</sup> quarter) schedule of well sampling, monitoring, and report submittal. The analysis was to be for total petroleum hydrocarbons as diesel and hydraulic fluid for monitor wells W-7 and W-8; acetone, methyl isobutyl ketone (MIBK), benzene, toluene, ethyl benzene, and total xylene (BTEX) for monitor well W-10, and TPHhf and BTEX for temporary monitor wells TW-2 and TW-3. Groundwater elevation readings were to be taken for all monitor wells.

By letter dated October 23, 1996, the ACHCSA requested that James River Corporation prepare a Risk Based Corrective Action Plan in conformance with ASTM Designation: E 1739-95.

Printpack and ESCM personnel met with the ACHCSA on December 5, 1996. During that meeting it was agreed that the monitoring and sampling requested by the ACHCSA letter of August 20, 1996, would be completed and a report submitted. Printpack/ESCM agreed to aggressively remove the free-phase hydraulic fluid from TW-1. Printpack/ESCM agreed to prepare and submit a Risk Based Corrective Action Plan (RBCA) for the site. It was agreed that if the RBCA were approved then "Clean Closure" for the site would be granted in regards to any releases that had occurred on the facility. The wells on site would be closed after the "Clean Closure" was approved. The ACHCSA agreed that there were no records indicating that chlorinated compounds had ever been used at the property by Printpack nor any of Printpack's predecessors and that any chlorinated compounds found in the groundwater beneath the site would be attributed to others (i.e., Caterpillar, Williams Street Site, Singer-Friden, and other surrounding release sites) who had been contributing to what is known as the San Leandro Plume.

A Groundwater Elevation report was submitted to the ACHCSA on December 31, 1996 (Table 1). A RBCA Report was submitted to the ACHCSA on April 25, 1997. These reports stated that:

1. More than 68 gallons of free-phase hydraulic fluid had been removed and that no free phase hydraulic fluid had been detected since February 24, 1997. All Free-phase has been removed.
2. The groundwater sampling (Table 2) detected only 0.39 mg/L of TPHhf in monitor well TW-2, and 2.4 mg/L of Acetone in W-10 with all other results being "Non-Detect".
3. The aquifer testing indicated that the averaged groundwater flow velocity was 0.12 feet per day.
4. Bioactivity was measured in W-10 indicating that the acetone is bioattenuating. Acetone concentration in the well has attenuated from the original 150,000 mg/L to the current 2.4 mg/L (Table 3).

5. The "Worst Case" Fate and Transport Model indicates that the dissolved acetone plume would reach equilibrium and stop moving downgradient at a maximum distance of 630 feet from monitor well W-10. The maximum concentration at the leading edge of the plume would be 1 ug/L. The California code of Regulations, Title 22, Section 66261.126, Appendix X lists acetone as being ignitable only, but not toxic, not corrosive, not reactive, and not as being extremely hazardous. Review of other data indicated that a Risk Based Screening Level for acetone of 1,297 mg/Kg (or mg/L) would be appropriate. The current 2.4 mg/L is several orders of magnitude below this screening level.
6. There is no demonstrable long term threat to human health, safety, of sensitive environmental receptors from the constituents on the Printpack site.
7. Since there are no hazardous associated with the property, all monitor wells should be closed.

By letter dated March 2, 1998, the ACHCSA notified Printpack that remedial action had been completed for soil and groundwater contaminated with alcohol, acetate, and acetone compounds, as well as BTEX constituents. The ACHCSA stated that based upon the available information that No Further Action related to the above contaminants was required. However, the ACHCSA noted that the site contained chlorinated hydrocarbons in excess of drinking water MCLs. The agency stated that the site could be designated as a containment zone once a management plan had been submitted and approved. They stated that the vertical and lateral extent of the plume must be defined and that it must be demonstrated that the contaminant concentrations do not pose a risk human health or the environment. The agency requested that potential exposure pathways be evaluated by collecting soil gas vapors on site.

A Soil Gas Sampling Work Plan and an Illness and Injury Prevention Plan were developed on June 19, 1998, and submitted to the ACHCSA. They approved the plan and soil gas samples were collected on July 1, 1998. (See Figure 2) ACHCSA personnel were onsite during the sample collection activity. Samples were collected by using Summa canisters in conformance with the guidance provided in the work plan. The collection canisters were transported the same day to Air Toxics, Ltd., (the laboratory) in Folsom, California. The laboratory ran TO-14 test on all three canisters. The three canisters still contained a slight vacuum, indicating that the testing procedure had been accomplished correctly. No chlorinated gaseous compounds were detected in any of the samples. Reporting limits were 4 to 16 ppbv for samples A and B. The reporting limits were 9.9 to 39 ppbv for sample C.

Air Sampling Report  
Printpack, San Leandro  
August 4, 1998  
Page 4 of 4

During the collection of the soil gas samples, Printpack's Mr. Ed Wirthin, showed ESCM and the ACHCSA representatives where previously contaminated soil had been excavated and removed. He explained that the soils had been removed to below the water table in an area adjoining the ink room. The area was approximately sixty feet long by fifteen feet wide. Mr. Wirthin stated that he had been at the plant for more than twenty four years and to his knowledge, there had never been any chlorinated solvents used or stored at the facility.

#### **CONCLUSIONS AND RECOMMENDATIONS:**

No gaseous chlorinated compounds were detected. The PELs, TWAs, and IDLHs for all constituents of concern are above the reporting limits (i.e., detection limits) used by the laboratory. According to Mr. Wirthin, there have never been chlorinated compounds stored or used at the facility. Therefore, it is evident that there are no exposure pathways for chlorinated compounds.

The reported gaseous concentrations of the non-chlorinated hydrocarbon constituents are also below the PEL, TWA, and IDLH levels for all reported constituents. The previous groundwater sampling indicates that these constituents are of no concern. Therefore no additional action needs to be considered for these constituents.

It is recommended that "No Further Action" be approved for this facility and that all monitor wells be properly closed.



**TABLE 1**  
**GROUND-WATER ELEVATION DATA SUMMARY**  
**PRINTPACK FACILITY**  
**2101 WILLIAMS STREET**  
**SAN LEANDRO, CALIFORNIA**  
**APRIL 14, 1997**

| Monitor Well | W-6   | W-7   | W-8   | W-10  | B-1  | TW-1  | TW-2  | TW-3  |
|--------------|-------|-------|-------|-------|------|-------|-------|-------|
| Sample Date  |       |       |       |       |      |       |       |       |
| May 1995     | 10.75 | 10.11 | 9.95  | 9.27  | 10.2 |       |       |       |
| July 1995    | 7.30  | 8.71  | 9.36  | 8.38  | 5    |       |       |       |
| Oct 1995     | 8.58  | 8.02  | 8.69  | 7.68  | 9.34 |       |       |       |
| Jan 1996     | 13.24 | 12.33 | 12.82 | 13.10 | 8.61 | 12.88 | 10.50 | 11.47 |
| April 1996   | 13.42 | 13.18 | 13.60 | 13.89 | 13.1 | ND    | 10.90 | 12.04 |
| Dec 1996     | 14.18 | 13.27 | 13.70 | 13.99 | 3    | 12.90 |       | 12.04 |
|              |       |       |       |       | 13.9 |       | 10.80 |       |
|              |       |       |       |       | 5    |       |       |       |
|              |       |       |       |       | 14.0 |       |       |       |
|              |       |       |       |       | 0    |       |       |       |

**TABLE 2**  
**GROUND-WATER SAMPLE ANALYTICAL RESULTS**  
**PRINTPACK FACILITY**  
**2101 WILLIAMS STREET**  
**SAN LEANDRO, CALIFORNIA**  
**APRIL 14, 1997**

| Monitor Well | Sample Date | TPH-D (µg/L) | TPH-HF (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylben (µg/L) | Xylenes (µg/L) | Acetone (µg/L) | MIBK (µg/L) |
|--------------|-------------|--------------|---------------|----------------|----------------|-----------------|----------------|----------------|-------------|
| TW-2         | 12/28/95    | NA           | 2200          | ND             | ND             | ND              | ND             | NA             | NA          |
|              | 04/11/96    | NA           | ND            | ND             | ND             | ND              | ND             | NA             | NA          |
|              | 01/22/97    | NA           | 390           | ND             | ND             | ND              | ND             | NA             | NA          |
| TW-3         | 12/28/95    | NA           | ND            | ND             | ND             | ND              | ND             | NA             | NA          |
|              | 04/11/96    | NA           | ND            | 0.58           | ND             | ND              | ND             | NA             | NA          |
|              | 01/22/97    | NA           | ND            | ND             | ND             | ND              | ND             | NA             | NA          |
| W-7          | 12/28/95    | ND           | ND            | ND             | ND             | ND              | ND             | NA             | NA          |
|              | 04/11/96    | ND           | ND            | NA             | NA             | NA              | NA             | NA             | NA          |
|              | 01/22/97    | ND           | ND            | ND             | ND             | ND              | ND             | ND             | ND          |
| W-8          | 12/28/95    | NA           | NA            | NA             | NA             | NA              | NA             | NA             | NA          |
|              | 04/11/96    | ND           | ND            | NA             | NA             | NA              | NA             | NA             | NA          |
|              | 01/22/97    | ND           | ND            | ND             | ND             | ND              | ND             | ND             | ND          |
| W-10         | 12/28/95    | 1700         | 2500          | 1.8            | 91             | 11              | 64             | NA             | NA          |
|              | 04/11/96    | NA           | NA            | 2.2            | 100            | 12              | 62             | 1400           | NA          |
|              | 01/22/97    | ND           | ND            | ND             | ND             | ND              | ND             | 0              | ND          |
|              |             |              |               |                |                |                 |                | 2400           |             |

NA means analyte not applicable to this sample round  
 ND means not detected above the reporting limit

**TABLE 3**  
**ACETONE CONCENTRATIONS IN MONITOR WELL "W-10"**  
**PRINTPACK FACILITY**  
**2101 WILLIAMS STREET**  
**SAN LEANDRO, CALIFORNIA**  
**APRIL 14, 1997**

| <u>DATE</u> | <u>CONCENTRATI<br/>ON<br/>mg/L</u> |
|-------------|------------------------------------|
| JUN 94      | 150,000                            |
| SEP 94      | 74,000                             |
| DEC 94      | 18,000                             |
| FEB 95      | 47,000                             |
| MAY 95      | 21,000                             |
| JUL 95      | 19,000                             |
| OCT 95      | 39,000                             |
| APR 96      | 14                                 |
| DEC 96      | 2.4                                |

### Concentration of Acetone in Groundwater

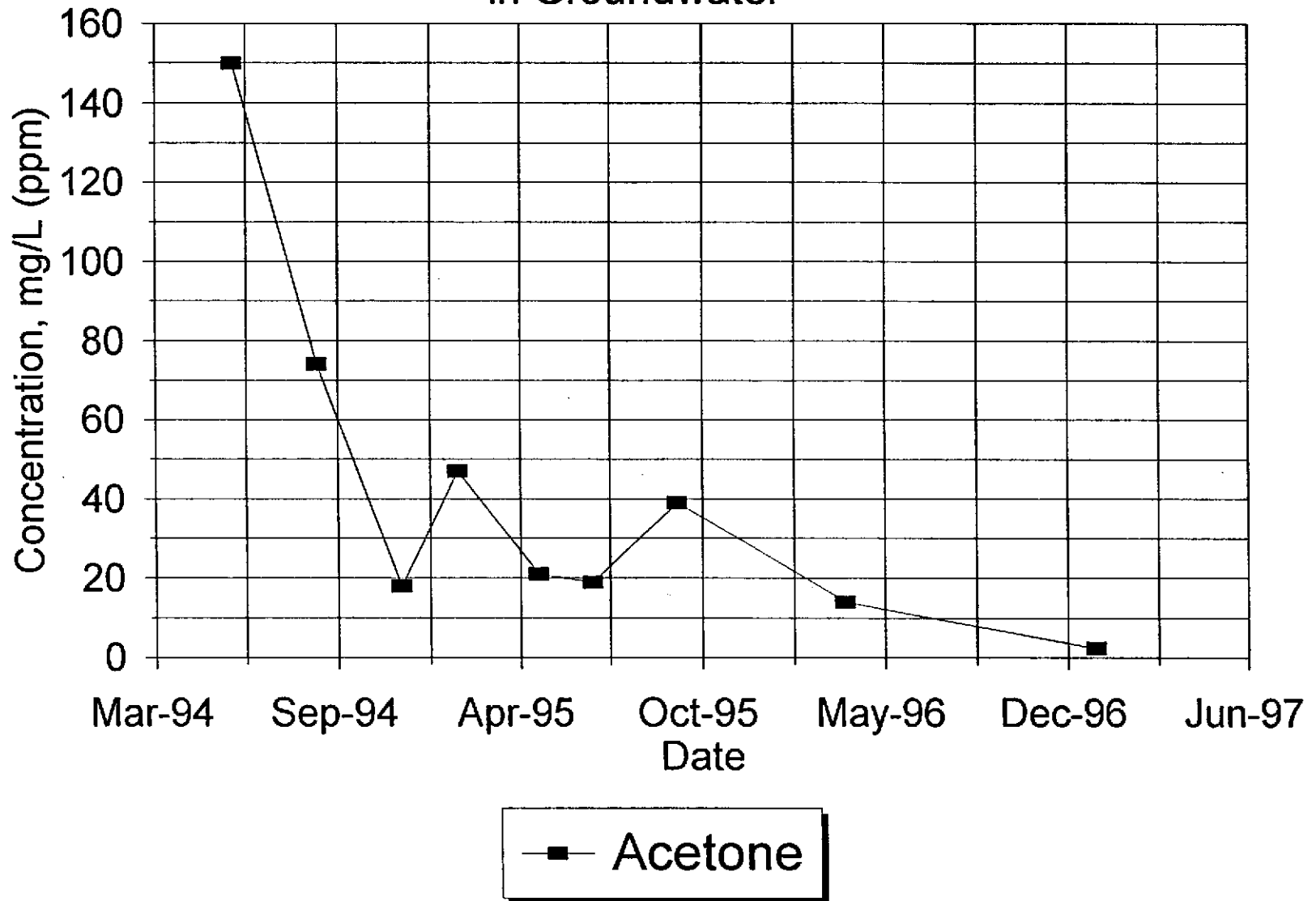
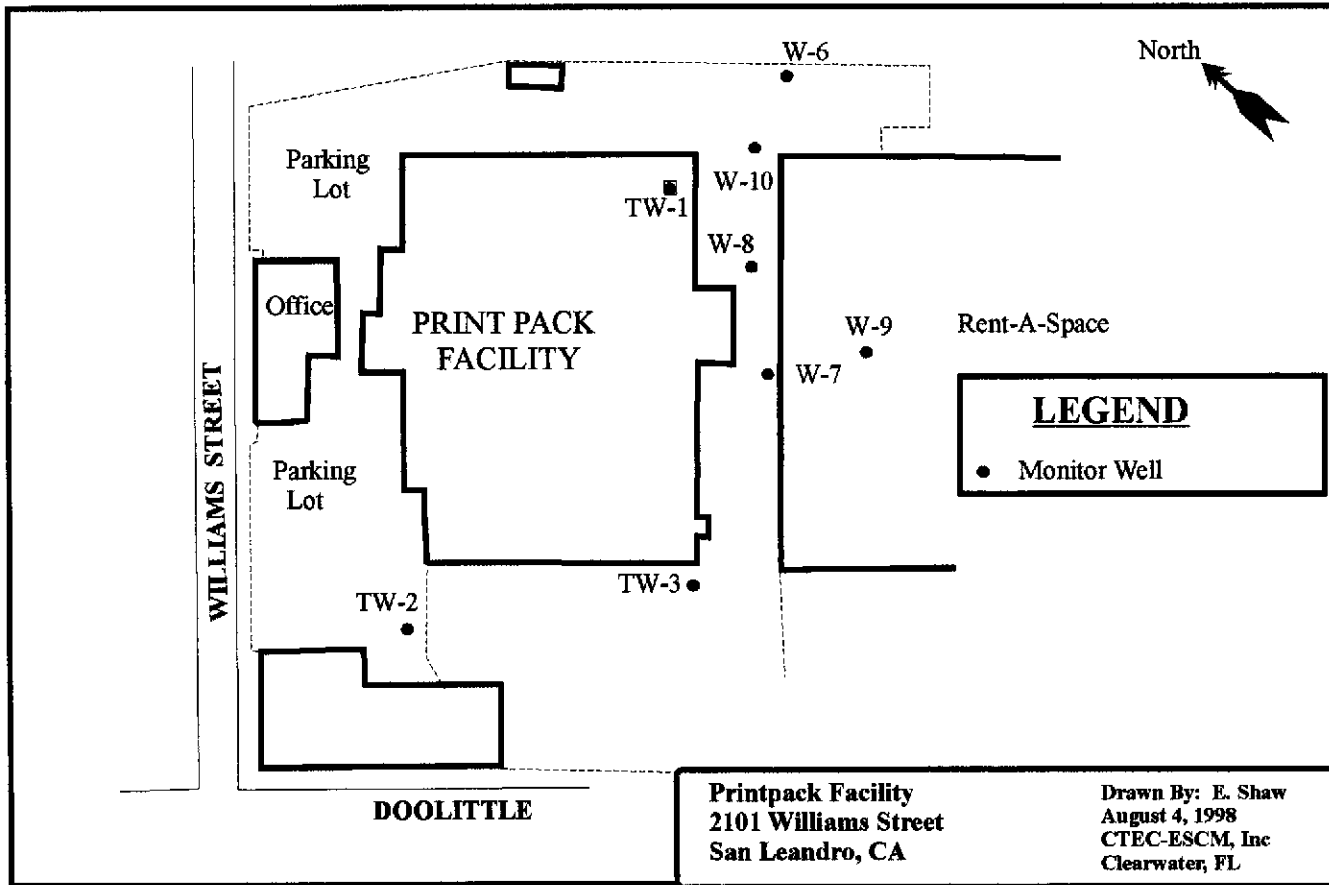
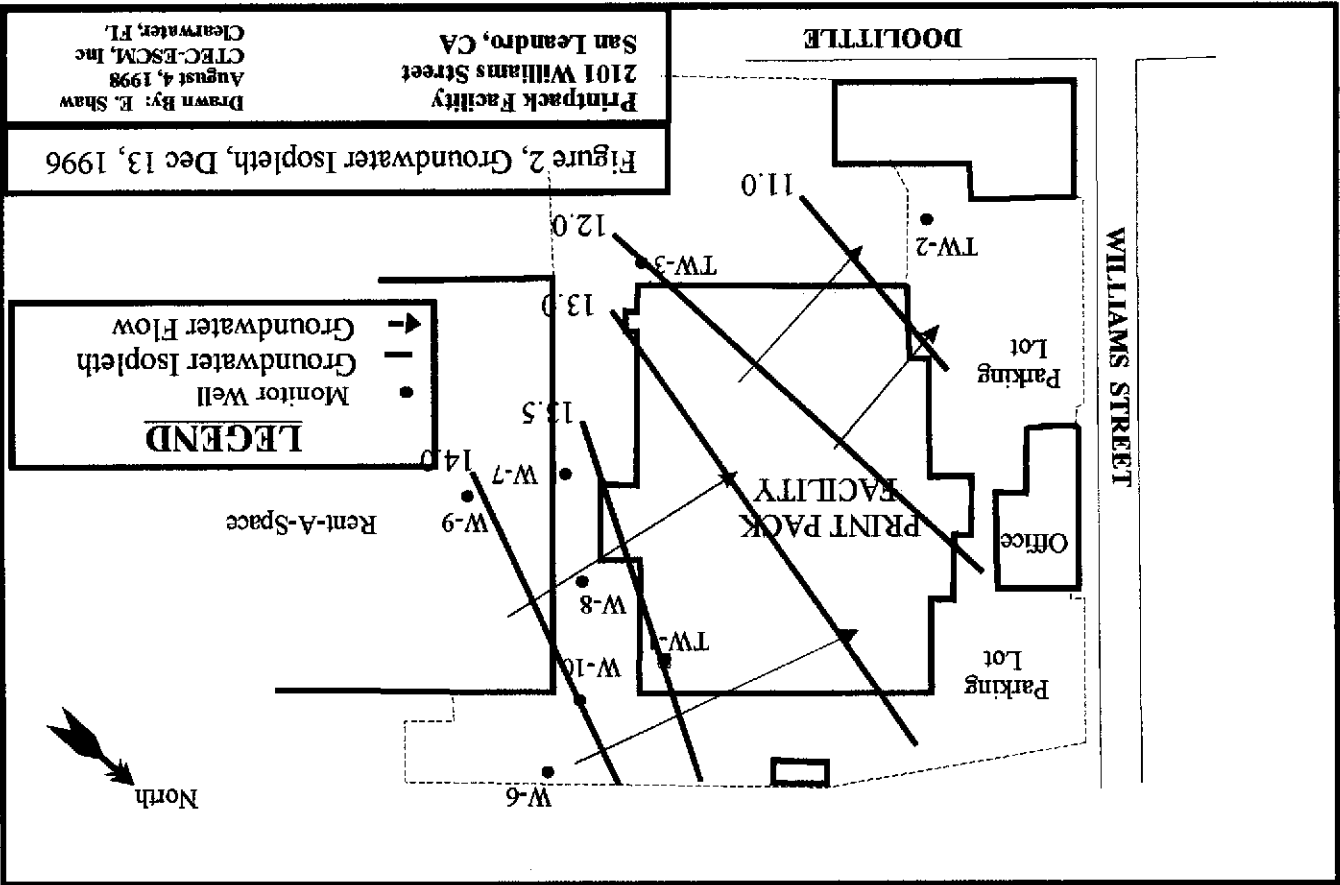
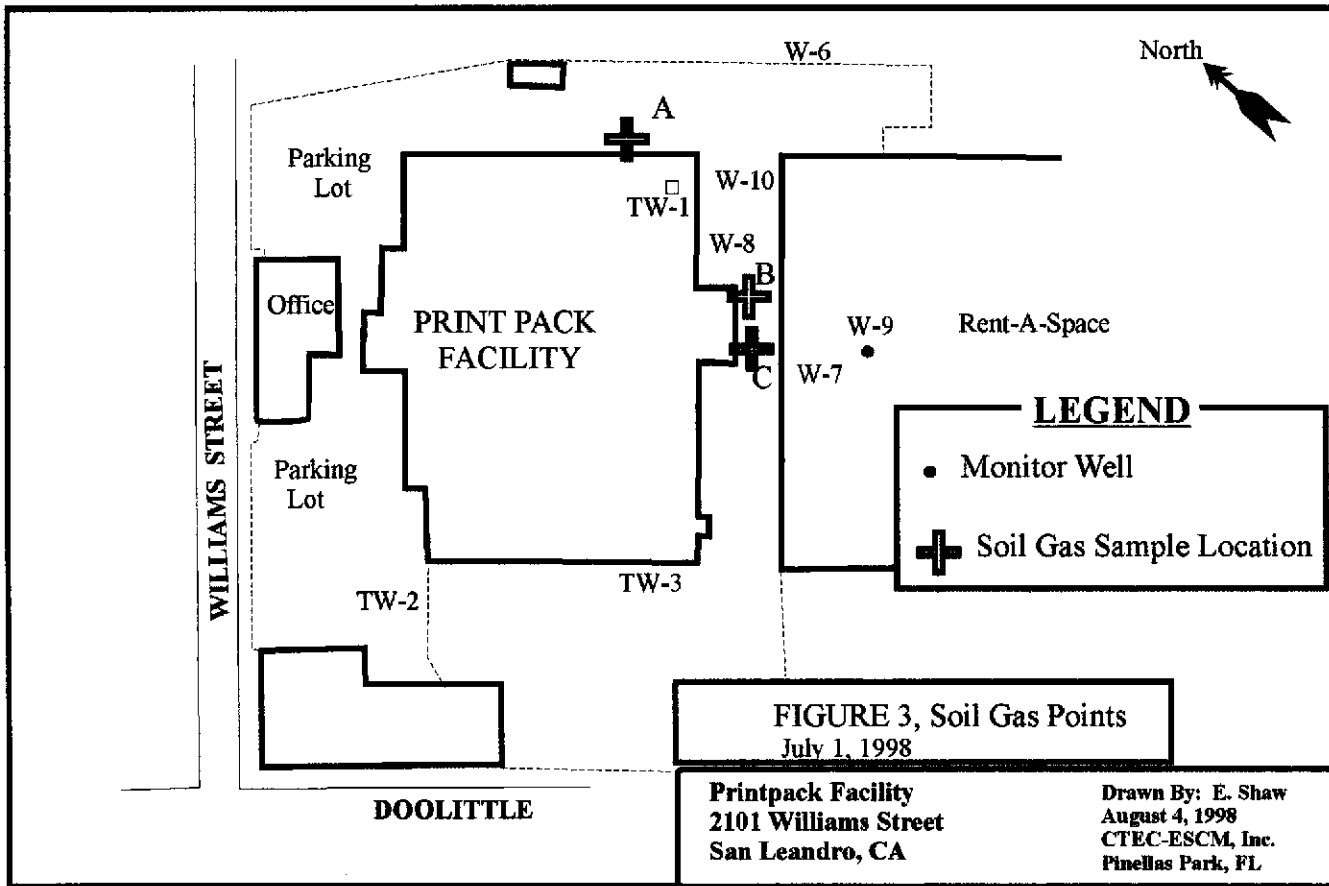


Figure 3. Exponential Decrease in the Concentration of Acetone in Groundwater

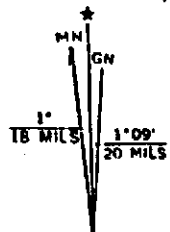
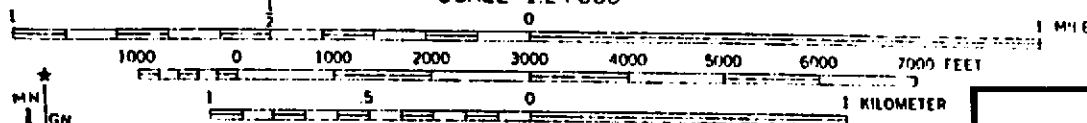








SCALE 1:24 000



UTM GRID AND 1982 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

### Topographic Map of Area

**PRINTPACK, INC**

Location: 2101 Williams Street  
Alameda County  
San Leandro, California

USGS Topo Map: San Leandro, California - 1980

**ESCM -** P.O. Box 7487  
Athens, GA 30604

**FIGURE 4**



# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9807010

### Work Order Summary

**CLIENT:** Mr. Edward Shaw  
CTEL-ESCM  
P.O. Box 387  
Monroe, UT 84754

**BILL TO:** Same

**PHONE:** 435-527-3103  
**FAX:** 435-527-3047  
**DATE RECEIVED:** 7/1/98  
**DATE COMPLETED:** 7/16/98

**P.O. #** EAS7198  
**PROJECT #** PRINTPACK @ SAN LEANDRO

| <u>FRACTION #</u> | <u>NAME</u>      | <u>TEST</u> | <u>RECEIPT</u><br><u>VAC./PRES.</u> |
|-------------------|------------------|-------------|-------------------------------------|
| 01A               | PRINTPACK-A @ 3' | TO-14       | 0.2 psi                             |
| 02A               | PRINTPACK-B @ 3' | TO-14       | 0.2 psi                             |
| 03A               | PRINTPACK-C @ 3' | TO-14       | 0.4 psi                             |
| 04A               | Lab Blank        | TO-14       | NA                                  |

CERTIFIED BY:

*John Swanson for*  
Laboratory Director

DATE: 7-16-98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-A @ 3'

ID#: 9807010-01A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                     |         |
|--------------|---------|---------------------|---------|
| File Name:   | 1070825 | Date of Collection: | 7/ 1/98 |
| Dil. Factor: | 7.96    | Date of Analysis:   | 7/ 9/98 |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) |
|---------------------------|-------------------|---------------|
| Freon 12                  | 4.0               | Not Detected  |
| Freon 114                 | 4.0               | Not Detected  |
| Chloromethane             | 4.0               | Not Detected  |
| Vinyl Chloride            | 4.0               | Not Detected  |
| Bromomethane              | 4.0               | Not Detected  |
| Chloroethane              | 4.0               | Not Detected  |
| Freon 11                  | 4.0               | Not Detected  |
| 1,1-Dichloroethene        | 4.0               | Not Detected  |
| Freon 113                 | 4.0               | Not Detected  |
| Methylene Chloride        | 4.0               | Not Detected  |
| 1,1-Dichloroethane        | 4.0               | Not Detected  |
| cis-1,2-Dichloroethene    | 4.0               | Not Detected  |
| Chloroform                | 4.0               | Not Detected  |
| 1,1,1-Trichloroethane     | 4.0               | Not Detected  |
| Carbon Tetrachloride      | 4.0               | Not Detected  |
| Benzene                   | 4.0               | Not Detected  |
| 1,2-Dichloroethane        | 4.0               | Not Detected  |
| Trichloroethene           | 4.0               | Not Detected  |
| 1,2-Dichloropropane       | 4.0               | Not Detected  |
| cis-1,3-Dichloropropene   | 4.0               | Not Detected  |
| Toluene                   | 4.0               | 220           |
| trans-1,3-Dichloropropene | 4.0               | Not Detected  |
| 1,1,2-Trichloroethane     | 4.0               | Not Detected  |
| Tetrachloroethene         | 4.0               | Not Detected  |
| Ethylene Dibromide        | 4.0               | Not Detected  |
| Chlorobenzene             | 4.0               | Not Detected  |
| Ethyl Benzene             | 4.0               | 6.9           |
| m,p-Xylene                | 4.0               | 24            |
| o-Xylene                  | 4.0               | 4.3           |
| Styrene                   | 4.0               | Not Detected  |
| 1,1,2,2-Tetrachloroethane | 4.0               | Not Detected  |
| 1,3,5-Trimethylbenzene    | 4.0               | Not Detected  |
| 1,2,4-Trimethylbenzene    | 4.0               | 6.1           |
| 1,3-Dichlorobenzene       | 4.0               | Not Detected  |
| 1,4-Dichlorobenzene       | 4.0               | Not Detected  |
| Chlorotoluene             | 4.0               | Not Detected  |
| 1,2-Dichlorobenzene       | 4.0               | Not Detected  |
| 1,2,4-Trichlorobenzene    | 4.0               | Not Detected  |
| Hexachlorobutadiene       | 4.0               | Not Detected  |
| Propylene                 | 16                | Not Detected  |
| 1,3-Butadiene             | 16                | Not Detected  |
| Acetone                   | 16                | Not Detected  |
| Carbon Disulfide          | 16                | Not Detected  |
| 2-Propanol                | 16                | Not Detected  |
| trans-1,2-Dichloroethene  | 16                | Not Detected  |

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-A @ 3'

ID#: 9807010-01A

EPA METHOD TO-14 GC/MS Full Scan

|                     |         |                                   |
|---------------------|---------|-----------------------------------|
| <b>File Name:</b>   | 1070825 | <b>Date of Collection:</b> 7/1/98 |
| <b>Dil. Factor:</b> | 7.96    | <b>Date of Analysis:</b> 7/9/98   |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) |
|----------------------------------|-------------------|---------------|
| Vinyl Acetate                    | 16                | Not Detected  |
| 2-Butanone (Methyl Ethyl Ketone) | 16                | Not Detected  |
| Hexane                           | 16                | Not Detected  |
| Tetrahydrofuran                  | 16                | Not Detected  |
| Cyclohexane                      | 16                | Not Detected  |
| 1,4-Dioxane                      | 16                | Not Detected  |
| Bromodichloromethane             | 16                | Not Detected  |
| 4-Methyl-2-pentanone             | 16                | Not Detected  |
| 2-Hexanone                       | 16                | Not Detected  |
| Dibromochloromethane             | 16                | Not Detected  |
| Bromoform                        | 16                | Not Detected  |
| 4-Ethyltoluene                   | 16                | Not Detected  |
| Ethanol                          | 16                | Not Detected  |
| Methyl tert-Butyl Ether          | 16                | Not Detected  |
| Heptane                          | 16                | 81            |

Container Type: 1 Liter Summa Canister

| Surrogates           | % Recovery | Method Limits |
|----------------------|------------|---------------|
| Octafluorotoluene    | 97         | 70-130        |
| Toluene-d8           | 96         | 70-130        |
| 4-Bromofluorobenzene | 94         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-B @ 3'

ID#: 9807010-02A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                     |         |
|--------------|---------|---------------------|---------|
| File Name:   | 1070826 | Date of Collection: | 7/ 1/98 |
| Dil. Factor: | 7.96    | Date of Analysis:   | 7/ 9/98 |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) |
|---------------------------|-------------------|---------------|
| Freon 12                  | 4.0               | Not Detected  |
| Freon 114                 | 4.0               | Not Detected  |
| Chloromethane             | 4.0               | Not Detected  |
| Vinyl Chloride            | 4.0               | Not Detected  |
| Bromomethane              | 4.0               | Not Detected  |
| Chloroethane              | 4.0               | Not Detected  |
| Freon 11                  | 4.0               | Not Detected  |
| 1,1-Dichloroethene        | 4.0               | Not Detected  |
| Freon 113                 | 4.0               | Not Detected  |
| Methylene Chloride        | 4.0               | Not Detected  |
| 1,1-Dichloroethane        | 4.0               | Not Detected  |
| cis-1,2-Dichloroethene    | 4.0               | Not Detected  |
| Chloroform                | 4.0               | Not Detected  |
| 1,1,1-Trichloroethane     | 4.0               | Not Detected  |
| Carbon Tetrachloride      | 4.0               | Not Detected  |
| Benzene                   | 4.0               | Not Detected  |
| 1,2-Dichloroethane        | 4.0               | Not Detected  |
| Trichloroethene           | 4.0               | Not Detected  |
| 1,2-Dichloropropane       | 4.0               | Not Detected  |
| cis-1,3-Dichloropropene   | 4.0               | Not Detected  |
| Toluene                   | 4.0               | 290           |
| trans-1,3-Dichloropropene | 4.0               | Not Detected  |
| 1,1,2-Trichloroethane     | 4.0               | Not Detected  |
| Tetrachloroethene         | 4.0               | Not Detected  |
| Ethylene Dibromide        | 4.0               | Not Detected  |
| Chlorobenzene             | 4.0               | Not Detected  |
| Ethyl Benzene             | 4.0               | 7.4           |
| m,p-Xylene                | 4.0               | 27            |
| o-Xylene                  | 4.0               | 6.1           |
| Styrene                   | 4.0               | Not Detected  |
| 1,1,2,2-Tetrachloroethane | 4.0               | Not Detected  |
| 1,3,5-Trimethylbenzene    | 4.0               | 4.2           |
| 1,2,4-Trimethylbenzene    | 4.0               | 5.6           |
| 1,3-Dichlorobenzene       | 4.0               | Not Detected  |
| 1,4-Dichlorobenzene       | 4.0               | Not Detected  |
| Chlorotoluene             | 4.0               | Not Detected  |
| 1,2-Dichlorobenzene       | 4.0               | Not Detected  |
| 1,2,4-Trichlorobenzene    | 4.0               | Not Detected  |
| Hexachlorobutadiene       | 4.0               | Not Detected  |
| Propylene                 | 16                | Not Detected  |
| 1,3-Butadiene             | 16                | Not Detected  |
| Acetone                   | 16                | Not Detected  |
| Carbon Disulfide          | 16                | Not Detected  |
| 2-Propanol                | 16                | Not Detected  |
| trans-1,2-Dichloroethene  | 16                | Not Detected  |

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-B @ 3'

ID#: 9807010-02A

EPA METHOD TO-14 GC/MS Full Scan

|                     |         |                                    |
|---------------------|---------|------------------------------------|
| <b>File Name:</b>   | 1070826 | <b>Date of Collection:</b> 7/ 1/98 |
| <b>Dil. Factor:</b> | 7.96    | <b>Date of Analysis:</b> 7/ 9/98   |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) |
|----------------------------------|-------------------|---------------|
| Vinyl Acetate                    | 16                | Not Detected  |
| 2-Butanone (Methyl Ethyl Ketone) | 16                | Not Detected  |
| Hexane                           | 16                | Not Detected  |
| Tetrahydrofuran                  | 16                | Not Detected  |
| Cyclohexane                      | 16                | Not Detected  |
| 1,4-Dioxane                      | 16                | Not Detected  |
| Bromodichloromethane             | 16                | Not Detected  |
| 4-Methyl-2-pentanone             | 16                | Not Detected  |
| 2-Hexanone                       | 16                | Not Detected  |
| Dibromochloromethane             | 16                | Not Detected  |
| Bromoform                        | 16                | Not Detected  |
| 4-Ethyltoluene                   | 16                | Not Detected  |
| Ethanol                          | 16                | Not Detected  |
| Methyl tert-Butyl Ether          | 16                | Not Detected  |
| Heptane                          | 16                | 80            |

Container Type: 1 Liter Summa Canister

| Surrogates           | % Recovery | Method Limits |
|----------------------|------------|---------------|
| Octafluorotoluene    | 94         | 70-130        |
| Toluene-d8           | 96         | 70-130        |
| 4-Bromofluorobenzene | 94         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-C @ 3'

ID#: 9807010-03A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                     |         |
|--------------|---------|---------------------|---------|
| File Name:   | 1070827 | Date of Collection: | 7/ 1/98 |
| Dil. Factor: | 19.7    | Date of Analysis:   | 7/ 9/98 |

| Compound                      | Rpt. Limit (ppbv) | Amount (ppbv) |
|-------------------------------|-------------------|---------------|
| Freon 12                      | 9.9               | Not Detected  |
| Freon 114                     | 9.9               | Not Detected  |
| Chloromethane                 | 9.9               | Not Detected  |
| <b>Vinyl Chloride</b>         | 9.9               | <b>18</b>     |
| Bromomethane                  | 9.9               | Not Detected  |
| Chloroethane                  | 9.9               | Not Detected  |
| Freon 11                      | 9.9               | Not Detected  |
| 1,1-Dichloroethene            | 9.9               | Not Detected  |
| Freon 113                     | 9.9               | Not Detected  |
| Methylene Chloride            | 9.9               | Not Detected  |
| 1,1-Dichloroethane            | 9.9               | Not Detected  |
| <b>cis-1,2-Dichloroethene</b> | 9.9               | <b>17</b>     |
| Chloroform                    | 9.9               | Not Detected  |
| 1,1,1-Trichloroethane         | 9.9               | Not Detected  |
| Carbon Tetrachloride          | 9.9               | Not Detected  |
| Benzene                       | 9.9               | 68            |
| <b>1,2-Dichloroethane</b>     | 9.9               | <b>12</b>     |
| <b>Trichloroethene</b>        | 9.9               | <b>10</b>     |
| 1,2-Dichloropropane           | 9.9               | Not Detected  |
| cis-1,3-Dichloropropene       | 9.9               | Not Detected  |
| Toluene                       | 9.9               | 2300          |
| trans-1,3-Dichloropropene     | 9.9               | Not Detected  |
| 1,1,2-Trichloroethane         | 9.9               | Not Detected  |
| Tetrachloroethene             | 9.9               | Not Detected  |
| Ethylene Dibromide            | 9.9               | Not Detected  |
| Chlorobenzene                 | 9.9               | Not Detected  |
| Ethyl Benzene                 | 9.9               | Not Detected  |
| m,p-Xylene                    | 9.9               | 26            |
| o-Xylene                      | 9.9               | Not Detected  |
| Styrene                       | 9.9               | Not Detected  |
| 1,1,2,2-Tetrachloroethane     | 9.9               | Not Detected  |
| 1,3,5-Trimethylbenzene        | 9.9               | Not Detected  |
| 1,2,4-Trimethylbenzene        | 9.9               | Not Detected  |
| 1,3-Dichlorobenzene           | 9.9               | Not Detected  |
| 1,4-Dichlorobenzene           | 9.9               | Not Detected  |
| Chlorotoluene                 | 9.9               | Not Detected  |
| 1,2-Dichlorobenzene           | 9.9               | Not Detected  |
| 1,2,4-Trichlorobenzene        | 9.9               | Not Detected  |
| Hexachlorobutadiene           | 9.9               | Not Detected  |
| Propylene                     | 39                | Not Detected  |
| 1,3-Butadiene                 | 39                | Not Detected  |
| Acetone                       | 39                | Not Detected  |
| Carbon Disulfide              | 39                | Not Detected  |
| 2-Propanol                    | 39                | Not Detected  |
| trans-1,2-Dichloroethene      | 39                | Not Detected  |

# AIR TOXICS LTD.

SAMPLE NAME : PRINTPACK-C @ 3'

ID#: 9807010-03A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                     |         |
|--------------|---------|---------------------|---------|
| File Name:   | 1070827 | Date of Collection: | 7/ 1/98 |
| Dil. Factor: | 19.7    | Date of Analysis:   | 7/ 9/98 |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) |
|----------------------------------|-------------------|---------------|
| Vinyl Acetate                    | 39                | Not Detected  |
| 2-Butanone (Methyl Ethyl Ketone) | 39                | Not Detected  |
| Hexane                           | 39                | Not Detected  |
| Tetrahydrofuran                  | 39                | Not Detected  |
| Cyclohexane                      | 39                | Not Detected  |
| 1,4-Dioxane                      | 39                | Not Detected  |
| Bromodichloromethane             | 39                | Not Detected  |
| 4-Methyl-2-pentanone             | 39                | Not Detected  |
| 2-Hexanone                       | 39                | Not Detected  |
| Dibromochloromethane             | 39                | Not Detected  |
| Bromoform                        | 39                | Not Detected  |
| 4-Ethyltoluene                   | 39                | Not Detected  |
| Ethanol                          | 39                | Not Detected  |
| Methyl tert-Butyl Ether          | 39                | Not Detected  |
| Heptane                          | 39                | 92            |

Container Type: 1 Liter Summa Canister

| Surrogates           | % Recovery | Method Limits |
|----------------------|------------|---------------|
| Octafluorotoluene    | 97         | 70-130        |
| Toluene-d8           | 97         | 70-130        |
| 4-Bromofluorobenzene | 85         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9807010-04A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                           |
|--------------|---------|---------------------------|
| File Name:   | 1070804 | Date of Collection: NA    |
| Dil. Factor: | 1.00    | Date of Analysis: 7/ 8/98 |

| Compound                  | Rpt. Limit (ppbv) | Amount (ppbv) |
|---------------------------|-------------------|---------------|
| Freon 12                  | 0.50              | Not Detected  |
| Freon 114                 | 0.50              | Not Detected  |
| Chloromethane             | 0.50              | Not Detected  |
| Vinyl Chloride            | 0.50              | Not Detected  |
| Bromomethane              | 0.50              | Not Detected  |
| Chloroethane              | 0.50              | Not Detected  |
| Freon 11                  | 0.50              | Not Detected  |
| 1,1-Dichloroethene        | 0.50              | Not Detected  |
| Freon 113                 | 0.50              | Not Detected  |
| Methylene Chloride        | 0.50              | Not Detected  |
| 1,1-Dichloroethane        | 0.50              | Not Detected  |
| cis-1,2-Dichloroethene    | 0.50              | Not Detected  |
| Chloroform                | 0.50              | Not Detected  |
| 1,1,1-Trichloroethane     | 0.50              | Not Detected  |
| Carbon Tetrachloride      | 0.50              | Not Detected  |
| Benzene                   | 0.50              | Not Detected  |
| 1,2-Dichloroethane        | 0.50              | Not Detected  |
| Trichloroethene           | 0.50              | Not Detected  |
| 1,2-Dichloropropane       | 0.50              | Not Detected  |
| cis-1,3-Dichloropropene   | 0.50              | Not Detected  |
| Toluene                   | 0.50              | Not Detected  |
| trans-1,3-Dichloropropene | 0.50              | Not Detected  |
| 1,1,2-Trichloroethane     | 0.50              | Not Detected  |
| Tetrachloroethene         | 0.50              | Not Detected  |
| Ethylene Dibromide        | 0.50              | Not Detected  |
| Chlorobenzene             | 0.50              | Not Detected  |
| Ethyl Benzene             | 0.50              | Not Detected  |
| m,p-Xylene                | 0.50              | Not Detected  |
| o-Xylene                  | 0.50              | Not Detected  |
| Styrene                   | 0.50              | Not Detected  |
| 1,1,2,2-Tetrachloroethane | 0.50              | Not Detected  |
| 1,3,5-Trimethylbenzene    | 0.50              | Not Detected  |
| 1,2,4-Trimethylbenzene    | 0.50              | Not Detected  |
| 1,3-Dichlorobenzene       | 0.50              | Not Detected  |
| 1,4-Dichlorobenzene       | 0.50              | Not Detected  |
| Chlorotoluene             | 0.50              | Not Detected  |
| 1,2-Dichlorobenzene       | 0.50              | Not Detected  |
| 1,2,4-Trichlorobenzene    | 0.50              | Not Detected  |
| Hexachlorobutadiene       | 0.50              | Not Detected  |
| Propylene                 | 2.0               | Not Detected  |
| 1,3-Butadiene             | 2.0               | Not Detected  |
| Acetone                   | 2.0               | Not Detected  |
| Carbon Disulfide          | 2.0               | Not Detected  |
| 2-Propanol                | 2.0               | Not Detected  |
| trans-1,2-Dichloroethene  | 2.0               | Not Detected  |



# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9807010-04A

EPA METHOD TO-14 GC/MS Full Scan

|              |         |                           |
|--------------|---------|---------------------------|
| File Name:   | 1070804 | Date of Collection: NA    |
| Dil. Factor: | 1.00    | Date of Analysis: 7/ 8/98 |

| Compound                         | Rpt. Limit (ppbv) | Amount (ppbv) |
|----------------------------------|-------------------|---------------|
| Vinyl Acetate                    | 2.0               | Not Detected  |
| 2-Butanone (Methyl Ethyl Ketone) | 2.0               | Not Detected  |
| Hexane                           | 2.0               | Not Detected  |
| Tetrahydrofuran                  | 2.0               | Not Detected  |
| Cyclohexane                      | 2.0               | Not Detected  |
| 1,4-Dioxane                      | 2.0               | Not Detected  |
| Bromodichloromethane             | 2.0               | Not Detected  |
| 4-Methyl-2-pentanone             | 2.0               | Not Detected  |
| 2-Hexanone                       | 2.0               | Not Detected  |
| Dibromochloromethane             | 2.0               | Not Detected  |
| Bromoform                        | 2.0               | Not Detected  |
| 4-Ethyltoluene                   | 2.0               | Not Detected  |
| Ethanol                          | 2.0               | Not Detected  |
| Methyl tert-Butyl Ether          | 2.0               | Not Detected  |
| Heptane                          | 2.0               | Not Detected  |

Container Type: NA

| Surrogates           | % Recovery | Method Limits |
|----------------------|------------|---------------|
| Octafluorotoluene    | 98         | 70-130        |
| Toluene-d8           | 95         | 70-130        |
| 4-Bromofluorobenzene | 96         | 70-130        |



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

## CHAIN-OF-CUSTODY RECORD

No 015829

Page 1 of 1

|   |   |   |
|---|---|---|
| Contact Person <u>ED SHAW</u><br>Company <u>CTEZ-ESCM</u><br>Address <u>P.O. Box 387</u> City <u>MONROE</u> State <u>LA</u> Zip <u>70454</u><br>Phone <u>435-527-3103</u> FAX <u>435-527-3047</u><br>Collected By: Signature <u>[Signature]</u> | Project info:<br>P.O. # <u>EAS 7198</u><br>Project # <u>PRINTPACK</u><br>Project Name <u>@ SAN LEBANDRO</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify |
|---|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time      | Analyses Requested | Canister Pressure / Vacuum |       |          |
|----------|-------------------|------------------|--------------------|----------------------------|-------|----------|
|          |                   |                  |                    | Initial                    | Final | Receipt  |
| 01A      | PRINTPACK-A @ 3'  | 7/1/98 1021 PAST | T014               |                            |       | 0.2 ps   |
| 02A      | PRINTPACK-B @ 3'  | 7/1/98 1010 PAST | T014               |                            |       | 0.2 ps   |
| 03A      | PRINTPACK-C @ 3'  | 7/1/98 1030 PAST | T014               |                            |       | 0.4 ps   |
|          |                   |                  |                    |                            |       | @ 7/1/98 |

|   |   |        |
|---|---|--------|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>7/1/98</u><br>Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>12:59 PM</u><br>Relinquished By: (Signature) _____ Date/Time _____<br>Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>7/1/98</u><br>Relinquished By: (Signature) _____ Date/Time _____ | Received By: (Signature) <u>[Signature]</u> Date/Time <u>12:59 PM</u><br>Received By: (Signature) <u>[Signature]</u> Date/Time <u>12:59</u> | Notes: |
|---|---|--------|

|              |                                    |                      |                      |                               |                           |                       |                                    |                             |
|--------------|------------------------------------|----------------------|----------------------|-------------------------------|---------------------------|-----------------------|------------------------------------|-----------------------------|
| Lab Use Only | Shipper Name <u>Hand delivered</u> | Air Bill # <u>NA</u> | Opened By: <u>TS</u> | Date/Time <u>7/1/98 12:59</u> | Temp. (°C) <u>Ambient</u> | Condition <u>Good</u> | Custody Seals Intact? <u>(N/A)</u> | Work Order # <u>9807010</u> |
|--------------|------------------------------------|----------------------|----------------------|-------------------------------|---------------------------|-----------------------|------------------------------------|-----------------------------|