PLAINTIFF'S EXHIBIT

UC-1921

**CHEMTEX**

Environmental Laboratory

BROWNSVILLE TECHNICAL PARK

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BROWNSVILLE, TX 78523-5611

1747 7th Avenue, Port Arthur, Texas 77642, (409) 983-4875

**Client:** J & D Enterprises
1090 South 4th St.
Beaumont, Texas 77701

**Att:** JoAnn Kelley

**Sample Source:** Bulk
**Date Collected:** 10/17/88
**Collected By:** Client
**Date Received:** 10/17/88
**CHEMTEX #:** 10178804
**Report Date:** 10/18/88

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CHEMTEX Environmental Laboratory Inc. received SIXTY SIX Bulk Samples from J & D Enterprises for the analysis and identification of Asbestos. The samples were received on October 17, 1988, and analyzed on October 17, 1988 by Polarized Light Microscopy.

The Bulk Samples were first examined for homogeneity and composition with the aid of a Simple Microscope. The visual estimation of relative concentration of Asbestos was made by examining the bulk samples under a Simple Microscope. Later few fibers were separated from the bulk samples, and observed under a Polarized Light Microscope for several characteristics including: (1) Morphology, (2) Extinction Characteristics, (3) Extinction Angle, (4) Sign of Elongation, (5) Birefringence and (6) Dispersion staining colors., etc.

Quality Assurance practices employed include examination of multiple slides of each sample, comparison of sample slides to Standards, Interlaboratory Identification and participating in Asbestos Bulk Sample Analysis Quality Assurance Program with Environmental Protection Agency (EPA accreditation # 6510).

Please see following pages for results.

Asbestos Analysis
Manila Jolden

C N Reddy

Dr. C. N. Reddy, Ph.D
Laboratory Director

CJW/CNR

Air Analysis • Biological Analysis
Industrial Hygiene Analysis • Organic Analysis • Petroleum Analysis
Plant Analysis • Soil Testing • Water Analysis

BRD 1285

CHEMTEX
1747 7th Avenue, Port Arthur, Texas 77642, (409) 983-4575

Project: Brownsville Technical Park, Brownsville, Texas.

## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| B1 | Absent | None 0% | Cellulose 2-3% | Carbonaceous Material 97-98% | Friable |
| B2 | Absent | None 0% | Cellulose 30-40% | Carbonaceous Material 60-70% | Friable |
| B3 | Absent | None 0% | Cellulose 3-5% | Carbonaceous Material 95-97% | Friable |
| B4 | Absent | None 0% | Synthetic Fibers 2-3% | Carbonaceous Material 97-98% | Friable |
| B5 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| B6 | Present | Chrysotile 2-3% | Fiber Glass 25-30% | Non Carbonaceous Material 67-73% | Friable |
| B7 | Present | Chrysotile 2-3% Amosite 20-25% | None 0% | Carbonaceous Material 72-78% | Friable |
| B8 | Absent | None 0% | None 0% | Carbonaceous Material 100% | Friable |

CNReddy

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| B9 | Present | Chrysotile 2-3% | Fiber Glass 15-20% | Non Carbonaceous Material 77-83% | Friable |
| B10 | Present | Chrysotile 2-3% | Fiber Glass 15-20% | Non Carbonaceous Material 77-83% | Friable |
| B11 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| B12 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| B13 | Present | Chrysotile 3-5% | Fiber Glass 10-15% | Non Carbonaceous Material 80-87% | Friable |
| C1 | Present | Chrysotile 3-5% | Fiber Glass 10-15% | Non Carbonaceous Material 80-87% | Friable |
| C2 | Absent | None 0% | Synthetic Fibers 10-15% | Carbonaceous Material 85-90% | Friable |
| C3 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| C4 | Absent | None 0% | Cellulose 5-10% Synthetic Fibers 10-15% | Carbonaceous Material 75-85% | Friable |
| C5 | Present | Chrysotile 5-10% | Fiber Glass 20-25% | Non Carbonaceous Material 65-75% | Friable |
| C6 | Absent | None 0% | Synthetic Fibers 3-5% | Carbonaceous Material 95-97% | Friable |
| C7 | Present | Chrysotile 2-3% | Fiber Glass 10-15% | Non Carbonaceous Material 82-88% | Friable |
| C8 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| C9 | Present | Chrysotile 3-5% | Fiber Glass 20-25% | Non Carbonaceous Material 70-77% | Friable |
| C10 | Present | Chrysotile 3-5% | Fiber Glass 20-25% | Non Carbonaceous Material 70-77% | Friable |

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| T1 | Present | Amosite 15-20% Chrysotile 10-15% | None 0% | Carbonaceous Material 65-75% | Friable |
| T2 | Absent | None 0% | Cellulose 40-50% | Carbonaceous Material 50-60% | Friable |
| T3 | Absent | None 0% | Synthetic Fibers 10-15% Cellulose 5-10% | Carbonaceous Material 75-85% | Friable |
| T4 | Present | Chrysotile 15-20% Amosite 5-10% | None 0% | Carbonaceous Material 70-80% | Friable |
| T5 | Present | Chrysotile 3-5% | Fiber Glass 10-15% | Non Carbonaceous Material 80-87% | Friable |
| T6 | Present | Chrysotile 10-15% Amosite 20-25% | None 0% | Carbonaceous Material 60-70% | Friable |
| T7 | Present | Chrysotile 3-5% | Fiber Glass 20-25% | Non Carbonaceous Material 70-77% | Friable |

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| V18 | Absent | None 0% | Cellulose 20-25% | Carbonaceous Material 75-80% | Friable |
| V19 | Absent | None 0% | Cellulose 30-40% | Carbonaceous Material 60-70% | Friable |
| V20 | Absent | None 0% | Cellulose 40-50% | Carbonaceous Material 50-60% | Friable |
| V21 | Present | Chrysotile 3-5% Amosite 15-20% | None 0% | Carbonaceous Material 75-82% | Friable |
| V22 | Absent | None 0% | Cellulose 10-15% | Carbonaceous Material 85-90% | Friable |
| V23 | Absent | None 0% | Cellulose 10-15% Synthetic Fibers 3-5% | Carbonaceous Material 80-87% | Friable |
| V24 | Present | Chrysotile 10-15% Amosite 10-15% | None 0% | Carbonaceous Material 70-80% | Friable |

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| V25 | Absent | None 0% | Cellulose 2-3% | Carbonaceous Material 97-98% | Friable |
| V26 | Present | Chrysotile 1-2% Amosite 10-15% | None 0% | Carbonaceous Material 83-89% | Friable |
| V27 | Absent | None 0% | Cellulose 40-50% | Carbonaceous Material 50-60% | Friable |
| V28 | Absent | None 0% | Cellulose 10-15% Synthetic Fibers 15-20% | Carbonaceous Material 65-75% | Friable |
| V29 | Absent | None 0% | Fiber Glass 20-25% | Non Carbonaceous Material 75-80% | Friable |
| V30 | Absent | None 0% | Cellulose 30-40% | Carbonaceous Material 60-70% | Friable |
| V31 | Absent | None 0% | Fiber Glass 20-25% | Non Carbonaceous Material 75-80% | Friable |
| V32 | Absent | None 0% | Cellulose 15-20% | Carbonaceous Material 80-85% | Friable |

CVReddy

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| V33 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| V34 | Present | Chrysotile 3-5% | Fiber Glass 10-15% | Non Carbonaceous Material 85-90% | Friable |
| V35 | Present | Chrysotile 3-5% | Fiber Glass 10-15% | Carbonaceous Material 80-87% | Friable |
| V36 | Present | Chrysotile 1-2% Amosite 15-20% | None 0% | Carbonaceous Material 78-84% | Friable |
| V37 | Present | Chrysotile 1-2% Amosite 10-15% | None 0% | Carbonaceous Material 83-89% | Friable |
| V38 | Absent | None 0% | Cellulose 40-50% | Carbonaceous Material 50-60% | Friable |
| V39 | Present | Chrysotile 3-5% Amosite 15-20% | None 0% | Carbonaceous Material 75-82% | Friable |

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## ASBESTOS BULK ANALYSIS AND IDENTIFICATION BY POLARIZED LIGHT MICROSCOPY

### RESULTS OF ANALYSIS

| Sample I.D. | Asbestos Present or Absent | Type of Asbestos | Other Fibrous Material Present | Non-Fibrous Material Present | Friable/ Non-Friable |
|---|---|---|---|---|---|
| V47 | Present | Chrysotile 3-5% | Fiber Glass 15-20% | Non Carbonaceous Material 75-82% | Friable |
| V48 | Absent | None 0% | Cellulose 25-30% | Carbonaceous Material 70-75% | Friable |
| V49 | Present | Chrysotile 3-5% | Fiber Glass 20-25% | Non Carbonaceous Material 70-77% | Friable |
| V50 | Present | Chrysotile 15-20% Amosite 10-15% | None 0% | Carbonaceous Material 65-75% | Friable |
| V51 | Present | Chrysotile 2-3% | Fiber Glass 15-20% | Carbonaceous Material 77-83% | Friable |
| V52 | Absent | None 0% | Cellulose 40-50% | Carbonaceous Material 50-60% | Friable |
| V53 | Absent | None 0% | Cellulose 25-30% | Carbonaceous Material 70-75% | Friable |

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