PLAINTIFF'S EXHIBIT
EXX 159
PENGAD-Bayonne, N.J

# KEM-TECH LABORATORIES

***Data Sheet***

**(Air Analysis)**

Date February 9, 1956

Location Kem-Tech Labs

## METEOROLOGICAL DATA

| | |
|---|---|
| Time | 5:20 p.m. |
| Wind direction | N |
| Wind velocity (mph) | 3-4 |
| Weather 5:45 rain | overcast |
| Humidity (%) | 95 |
| Temperature (degrees Fahr.) | 52 |

## ANALYTICAL DATA

### Dust

| | |
|---|---|
| Dust count (million particles/m³) (impinger; ~~filter~~) | 9.6 |
| Dust fall (tons/sq. mi./mo.) (period ____ to ____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | 10 |
| Calcium carbonate | |
| Pollen and plant fibers | |
| Silica | 7 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified fines | 7 |
| Miscellaneous | |

### Chemical

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m³) | 0.0 |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.3 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.0 |

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FP59436 5m 11-55

EM003804

# KEMTECH LABORATORIES

## *Data Sheet*

**(Air Analysis)**

Date February 23, 1956

Location N of Cafeteria, Esso

METEOROLOGICAL DATA

| | |
|---|---|
| Time | 3:50 p.m. |
| Wind direction | SSW |
| Wind velocity (mph) | 5-6 |
| Weather | mostly cloudy |
| Humidity (%) | 58 |
| Temperature (degrees Fahr.) | 72 |

ANALYTICAL DATA

**Dust**

| | |
|---|---|
| Dust count (million particles/m³) (impinger; ~~filter~~) | 15.1 |
| Dust fall (tons/sq. mi./mo.) (period ____ to ____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |

Dust identification (particles/field)

| | |
|---|---|
| Aluminum oxide | |
| Amorphous and carbonaceous | 4 |
| Calcium carbonate | |
| Pollen and plant fibers | 2 |
| Silica | 5 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified | 1 |
| Miscellaneous | |

**Chemical**

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | - |
| Chloride (mg./m³) | 0.0 |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.8 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.00 |

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# KEM-TECH LABORATORIES

***Data Sheet***

**(Air Analysis)**

Date March 20, 1956

Location NE Corner Esso

## METEOROLOGICAL DATA

| | |
|---|---|
| Time | 4:50 p.m. |
| Wind direction | E |
| Wind velocity (mph) | 3 |
| Weather | clear |
| Humidity (%) | 24 |
| Temperature (degrees Fahr.) | 59 |

## ANALYTICAL DATA

### Dust

| | |
|---|---|
| Dust count (million particles/m³) (impinger; ~~filter~~) | 4.1 |
| Dust fall (tons/sq. mi./mo.) (period_____to_____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | 1 |
| Calcium carbonate | |
| Pollen and plant fibers | 1 |
| Silica | 3 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified | |
| Miscellaneous | |

### Chemical

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m³) | 0.0 |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.9 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.00 |

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EM003806

# KEM-TECH LABORATORIES

***Data Sheet***

**(Air Analysis)**

Date March 20, 1956

Location N of Cafeteria, Esso

## METEOROLOGICAL DATA

| | |
|---|---|
| Time | 4:00 p.m. |
| Wind direction | N |
| Wind velocity (mph) | 3-4 |
| Weather | clear |
| Humidity (%) | 30 |
| Temperature (degrees Fahr.) | 56 |

## ANALYTICAL DATA

**Dust**

| | |
|---|---|
| Dust count (million particles/m³) (impinger; filter) | 4.8 |
| Dust fall (tons/sq. mi./mo.) (period_____to_____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | 10 |
| Calcium carbonate | |
| Pollen and plant fibers | |
| Silica | 7 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified | 1 |
| Miscellaneous | |

**Chemical**

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m³) | 0.0 |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.7 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.00 |

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# KEM-TECH LABORATORIES, INC.

949 W. McKinley Street
BATON ROUGE, LOUISIANA

## *Data Sheet*

**(Air Analysis)**

Date December 25, 1956

Location S. E. Corner
Esso

**METEOROLOGICAL DATA**

| | |
|---|---|
| Time | 9:05 A. M. |
| Wind direction | NE |
| Wind velocity (mph) | 7 - 11 gusts to 17 |
| Weather | clear |
| Humidity (%) | 23 |
| Temperature (degrees Fahr.) | 55 |

**ANALYTICAL DATA**

**Dust**

| | |
|---|---|
| Dust count (million particles/m.³) (impinger; filter) | 10.6 |
| Dust fall (tons/sq. mi./mo.) (period_____to_____) | |
| Suspended dust (mg./m.³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | > 10 |
| Calcium carbonate | |
| Pollen and plant fibers | |
| Silica | 1 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified | 8 |
| Miscellaneous | |

**Chemical**

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg./m.³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m.³) | 2.0 |
| Chlorine (ppm.) | .0 |
| Fluoride (mg./m.³) | |
| Hydrogen ion concentration (pH) | 7.0 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m.³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.75 |

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EM003808

# KEM-TECH LABORATORIES

*Data Sheet*

**(Air Analysis)**

Date March 20, 1956

Location South Gate, Esso

## METEOROLOGICAL DATA

| | |
|---|---|
| Time | 1:20 p.m. |
| Wind direction | SSW-WSW |
| Wind velocity (mph) | 5-6 |
| Weather | clear |
| Humidity (%) | 25 |
| Temperature (degrees Fahr.) | 56 |

## ANALYTICAL DATA

### Dust

| | |
|---|---|
| Dust count (million particles/m³) (impinger; ~~filter~~) | 5.5 |
| Dust fall (tons/sq. mi./mo.) (period_____to_____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | 1 |
| Calcium carbonate | |
| Pollen and plant fibers | 1 |
| Silica | 12 |
| Sodium carbonate | |
| Sodium chloride | |
| Sodium sulfate | |
| Unidentified | |
| Miscellaneous | |

### Chemical

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m³) | 0.0 |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.8 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.00 |

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Note: Winds are very vairable.

EM003809

# KEM-TECH LABORATORIES

## *Data Sheet*

**(Air Analysis)**

Date March 20, 1956

Location NW Corner Esso

**METEOROLOGICAL DATA**

| | |
|---|---|
| Time | 2:15 p.m. |
| Wind direction | NNE |
| Wind velocity (mph) | 5-7 |
| Weather | clear |
| Humidity (%) | 32 |
| Temperature (degrees Fahr.) | 58 |

**ANALYTICAL DATA**

**Dust**

| | |
|---|---|
| Dust count (million particles/m³) (impinger; ~~filter~~) | 4.1 |
| Dust fall (tons/sq. mi./mo.) (period_____to_____) | |
| Suspended dust (mg./m³) (electrostatic precipitator; filter paper) | |
| Dust identification (particles/field) | |
| Aluminum oxide | |
| Amorphous and carbonaceous | 8 |
| Calcium carbonate | |
| Pollen and plant fibers | |
| Silica | 3 |
| Sodium carbonate | 3 |
| Sodium chloride | |
| Sodium sulfate | 2 |
| Unidentified | |
| Miscellaneous | |

**Chemical**

| | |
|---|---|
| Aldehydes (ppm. HCHO) | |
| Ammonium (mg/m³) | 0.0 |
| Aromatic hydrocarbons (ppm. benzene) | |
| Chloride (mg./m³) | trace |
| Chlorine (ppm.) | 0.0 |
| Fluoride (mg/m³) | |
| Hydrogen ion concentration (pH) | 6.1 |
| Hydrogen sulfide (ppm.) | 0 |
| Oxides of nitrogen (ppm. $N_2O_3$) | 0.0 |
| Sulfate (mg./m³) | 0.0 |
| Sulfur dioxide (ppm.) | 0.00 |

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