### SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES
2. STATE: NJ
3. CITY: BRIDGEPORT
4. EP ID: 216
5. Type: CONTROLLED
6. Description: EMISSIONS
7. Category: Dioxin & Furan

#### Analysis:

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<tr>
<th>8. Substance</th>
<th>9. Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
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## SECTION 7: EMISSIONS ANALYSES

### Analysis:

#### 8. Substance

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<th>Concentration</th>
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<td>HCl</td>
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<td>HCl</td>
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#### 7. Category: Halogens

8F Total: 1.24e+1 ng/dscm 7%O2 1.31e+6 lbs/hr CCET
8F Total: 1.37e+1 ng/dscm 7%O2 1.36e+6 lbs/hr CCET
8F Total: 1.37e+1 ng/dscm 7%O2 1.29e+6 lbs/hr CCET
8F Total: 1.13e+0 ng/dscm 7%O2 1.29e+7 lbs/hr CCET
8F Total: 9.36e-1 ng/dscm 7%O2 1.02e+7 lbs/hr CCET
8F Total: 6.98e-1 ng/dscm 7%O2 8.88e+8 lbs/hr CCET

#### 7. Category: Metals

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<td>1.67e-4 lbs/hr</td>
<td>CE7%O2</td>
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<td>CE7%O2</td>
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### SECTION 7: EMISSIONS ANALYSES

- **Arsenic**
  - 216C3R1: 2.59e+0 ug/dscm 7%O2, 2.75e-4 lbs/hr
  - 216C3R2: 1.68e+0 ug/dscm 7%O2, 1.67e-4 lbs/hr
  - 216C3R3: 2.13e+0 ug/dscm 7%O2, 2.01e-4 lbs/hr
  - 216C5R1: ND
  - 216C5R2: 1.74e+0 ug/dscm 7%O2, 1.86e-4 lbs/hr
  - 216C5R3: ND
  - 216C6R1: 5.42e+0 ug/dscm 7%O2, 5.18e-4 lbs/hr
  - 216C6R2: 2.10e+0 ug/dscm 7%O2, 2.01e-4 lbs/hr
  - 216C6R3: ND
  - 216C7R1: 1.30e+0 ug/dscm 7%O2, 1.48e-4 lbs/hr
  - 216C7R2: 1.20e+0 ug/dscm 7%O2, 1.30e-4 lbs/hr
  - 216C7R3: ND
  - 216C3R1: 5.54e+1 ug/dscm 7%O2, 5.87e-3 lbs/hr
  - 216C3R2: 4.05e+1 ug/dscm 7%O2, 4.02e-3 lbs/hr
  - 216C3R3: 3.46e+1 ug/dscm 7%O2, 3.27e-3 lbs/hr
  - 216C5R1: ND
  - 216C5R2: ND
  - 216C5R3: ND
  - 216C6R1: ND
  - 216C6R2: ND
  - 216C6R3: ND
  - 216C7R1: ND
  - 216C7R2: ND
  - 216C7R3: ND

- **Beryllium**
  - 216C3R1: ND
  - 216C3R2: ND
  - 216C3R3: ND
  - 216C5R1: ND
  - 216C5R2: ND
  - 216C5R3: ND
  - 216C6R1: ND
  - 216C6R2: ND
  - 216C6R3: ND
  - 216C7R1: ND
  - 216C7R2: ND
  - 216C7R3: ND

- **Cadmium**
  - 216C3R1: 1.74e+0 ug/dscm 7%O2, 1.73e-4 lbs/hr
  - 216C3R2: 1.54e+0 ug/dscm 7%O2, 1.73e-4 lbs/hr
  - 216C5R1: 1.74e+0 ug/dscm 7%O2, 1.77e-4 lbs/hr
  - 216C5R2: ND
  - 216C5R3: ND
  - 216C6R1: 5.42e+0 ug/dscm 7%O2, 5.18e-4 lbs/hr
  - 216C6R2: 2.10e+0 ug/dscm 7%O2, 2.01e-4 lbs/hr
  - 216C6R3: ND
  - 216C7R1: 1.30e+0 ug/dscm 7%O2, 1.48e-4 lbs/hr
  - 216C7R2: 1.20e+0 ug/dscm 7%O2, 1.30e-4 lbs/hr
  - 216C7R3: ND
  - 216C3R2: 8.29e-5 ug/dscm 7%O2
  - 216C3R3: 1.71e+0 ug/dscm 7%O2
  - 216C5R1: 4.70e-4 ug/dscm 7%O2
  - 216C5R2: 1.79e-4 ug/dscm 7%O2
  - 216C5R3: 6.39e-3 ug/dscm 7%O2
  - 216C6R1: 1.75e+0 ug/dscm 7%O2, 1.79e-4 lbs/hr
  - 216C6R2: 2.10e+0 ug/dscm 7%O2, 2.01e-4 lbs/hr
  - 216C6R3: ND
  - 216C7R1: 1.30e+0 ug/dscm 7%O2, 1.48e-4 lbs/hr
  - 216C7R2: 1.20e+0 ug/dscm 7%O2, 1.30e-4 lbs/hr
  - 216C7R3: ND

- **Beryllium**
  - 216C3R1: 3.79e+0 ug/dscm 7%O2, 4.02e-5 lbs/hr
  - 216C3R2: 4.36e-1 ug/dscm 7%O2, 4.33e-5 lbs/hr
  - 216C3R3: 4.58e-1 ug/dscm 7%O2, 4.33e-5 lbs/hr
  - 216C5R1: ND
  - 216C5R2: ND
  - 216C5R3: ND
  - 216C6R1: ND
  - 216C6R2: ND
  - 216C6R3: ND
  - 216C7R1: ND
  - 216C7R2: ND
  - 216C7R3: ND

- **Cadmium**
  - 216C3R2: 4.73e+0 ug/dscm 7%O2, 4.70e-4 lbs/hr
  - 216C3R3: 3.01e+0 ug/dscm 7%O2, 2.84e-4 lbs/hr
  - 216C5R1: 4.18e+2 ug/dscm 7%O2, 4.48e-2 lbs/hr
  - 216C5R2: 6.72e+2 ug/dscm 7%O2, 7.05e-2 lbs/hr
  - 216C5R3: 9.38e+2 ug/dscm 7%O2, 9.57e-2 lbs/hr
  - 216C6R1: 2.36e+2 ug/dscm 7%O2, 2.26e-2 lbs/hr
  - 216C6R2: 4.01e+2 ug/dscm 7%O2, 3.84e-2 lbs/hr
  - 216C6R3: 2.71e+2 ug/dscm 7%O2, 2.77e-2 lbs/hr
  - 216C7R1: 8.32e+1 ug/dscm 7%O2, 9.49e-3 lbs/hr
  - 216C7R2: 5.88e+1 ug/dscm 7%O2, 6.39e-3 lbs/hr
  - 216C7R3: 2.08e+1 ug/dscm 7%O2, 2.64e-3 lbs/hr

- **Cadmium**
  - 216C3R1: 1.51e+0 ug/dscm 7%O2, 1.60e-2 lbs/hr
  - 216C3R2: 3.58e+0 ug/dscm 7%O2, 3.55e-2 lbs/hr
  - 216C3R3: 2.83e+0 ug/dscm 7%O2, 2.67e-2 lbs/hr
  - 216C5R1: 2.84e+1 ug/dscm 7%O2, 3.04e-3 lbs/hr
  - 216C5R2: 5.03e+1 ug/dscm 7%O2, 5.28e-3 lbs/hr
  - 216C5R3: 4.61e+1 ug/dscm 7%O2, 4.71e-3 lbs/hr
  - 216C6R1: 3.87e+1 ug/dscm 7%O2, 3.70e-3 lbs/hr
  - 216C6R2: 2.62e+1 ug/dscm 7%O2, 2.51e-3 lbs/hr
  - 216C6R3: 3.51e+1 ug/dscm 7%O2, 3.58e-3 lbs/hr
  - 216C7R1: 4.36e+1 ug/dscm 7%O2, 4.98e-3 lbs/hr
  - 216C7R2: 4.85e+1 ug/dscm 7%O2, 5.27e-3 lbs/hr
  - 216C7R3: 2.55e+1 ug/dscm 7%O2, 3.24e-3 lbs/hr

- **Lead**
  - 216C3R1: 1.71e+2 ug/dscm 7%O2, 1.82e-2 lbs/hr
  - 216C3R2: 6.64e+1 ug/dscm 7%O2, 6.60e-3 lbs/hr
  - 216C3R3: 5.54e+1 ug/dscm 7%O2, 5.23e-3 lbs/hr
# SECTION 7: EMISSIONS ANALYSES

| 1. COMPANY: | ROLLLINS ENVIRONMENTAL SERVICES |
| 2. STATE: | NJ |
| 3. CITY: | BRIDGEPORT |
| 4. EP ID: | 216 |
| 5. DEVICE NAME: | COMMERCIAL INCINERATOR |
| SYSTEM TYPE: | APC SYSTEM: HES/WS |
| REGION: | 2 |

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### Section 7: Emissions Analyses

#### 7. Category: PAH

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#### 7. Category: Particulate

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#### 7. Category: SVOC

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### SECTION 7: EMISSIONS ANALYSES

#### 1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES
#### 2. STATE: NJ
#### 3. CITY: BRIDGEPORT
#### 4. EP ID: 216
#### 5. DEVICE NAME: SYSTEM TYPE: COMMERCIAL INCINERATOR
#### 6. APC SYSTEM: HES/WS

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7. Category: THC & CO

Analysis:
## SECTION 7: EMISSIONS ANALYSES

### Analysis:

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## SECTION 7: EMISSIONS ANALYSES

### Analysis:

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## SECTION 7: EMISSIONS ANALYSES

### 7-282
### SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES
2. STATE: TX
3. CITY: DEER PARK
4. EP ID: 221

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| TEQ                              | 221C4                                |                |                       |                 | ND     | 1.02e-1  |
| TEQ                              | 221C5                                |                |                       |                 | ND     | 7.76e-1  |

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| Total PCDD/PCDF                  | 221C3                                |                |                       |                 | ND     | 3.37e+0  |
| Total PCDD/PCDF                  | 221C4                                |                |                       |                 | ND     | 3.79e+0  |
| Total PCDD/PCDF                  | 221C5                                |                |                       |                 | ND     | 2.95e+0  |
## SECTION 7: EMISSIONS ANALYSES

1. **COMPANY:** Rollins Environmental Services  
2. **STATE:** TX  
3. **CITY:** Deer Park  
4. **EP ID:** 221  
5. **DEVICE NAME:** RES (TX) Incinerator  
6. **SYSTEM TYPE:** Commercial Incinerator  
7. **APC SYSTEM:** PT  
8. **REGION:** 6

### Metals

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### Halogens

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### Other Substances

- **Analysis:** Metals
- **Analysis:** Halogens

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**Notices:**  
- **US EPA ARCHIVE DOCUMENT**
- **3/18/96**
- **7-264**
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<th>APC SYSTEM: PT</th>
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SECTION 7: EMISSIONS ANALYSES
### SECTION 7: EMISSIONS ANALYSES

#### 1. COMPANY: ROLLINS ENVIRONMENTAL SERVICES

#### 2. STATE: TX

#### 3. CITY: DEER PARK

#### 4. EP ID: 221

**DEVICE NAME:** RES (TX) INCINERATOR

**SYSTEM TYPE:** COMMERCIAL INCINERATOR

**APC SYSTEM:** PT

---

#### 7. Category: Particulate

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#### 7. Category: THC & CO

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<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<td>9.00e+1 lbs/hr</td>
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<tr>
<td>CO</td>
<td>221C5R2</td>
<td>1.79e+1 ppmv 7%O2</td>
<td>3.00e+2 lbs/hr</td>
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<td>CO</td>
<td>221C5R3</td>
<td>1.69e+1 ppmv 7%O2</td>
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<td>7%O2</td>
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<tr>
<td>THC</td>
<td>221C1R1</td>
<td>3.24e+0 ppmv 7%O2</td>
<td>6.00e-1 lbs/hr</td>
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<tr>
<td>THC</td>
<td>221C1R2</td>
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<td>8.19e-1 lbs/hr</td>
<td>CE</td>
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<td>THC</td>
<td>221C1R3</td>
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<td>6.13e-1 lbs/hr</td>
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<td>221C2R1</td>
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<td>221C2R2</td>
<td>4.72e+0 ppmv 7%O2</td>
<td>9.31e-1 lbs/hr</td>
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### Section 7: Emissions Analyses

#### Analysis:

<table>
<thead>
<tr>
<th>8. Substance</th>
<th>9. Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<tbody>
<tr>
<td><strong>1,1,1-Trichloroethane</strong></td>
<td>221C1</td>
<td>4.54e+2 ng/dscm %O2</td>
<td>4.33e-5 lbs/hr</td>
<td>C7%O2</td>
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<td>1.04e+3 ng/dscm %O2</td>
<td>1.15e-4 lbs/hr</td>
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<td><strong>1,1,1-Trichloroethane</strong></td>
<td>221C3</td>
<td>1.63e+3 ng/dscm %O2</td>
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<td><strong>1,1,1-Trichloroethane</strong></td>
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<td>1.08e-3 lbs/hr</td>
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<td><strong>1,1,2,2-Tetrachloroethane</strong></td>
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<td><strong>1,1,2-Trichloroethane</strong></td>
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<td>1.17e-5 lbs/hr</td>
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<td><strong>1,1-Dichloroethene</strong></td>
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<tr>
<td><strong>1,2-Dichloroethene</strong></td>
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<td><strong>1,2-Dichloropropane</strong></td>
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<tr>
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<tr>
<td><strong>1,2-Dichloropropane</strong></td>
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<tr>
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<td><strong>Carbon Tetrachloride</strong></td>
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<td>3.35e-4 lbs/hr</td>
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<tr>
<td><strong>Carbon Tetrachloride</strong></td>
<td>221C2</td>
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<td>1.12e-3 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Carbon Tetrachloride</strong></td>
<td>221C3</td>
<td>1.17e+4 ng/dscm %O2</td>
<td>1.77e-3 lbs/hr</td>
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<tr>
<td><strong>Carbon Tetrachloride</strong></td>
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<td>2.62e-3 lbs/hr</td>
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<td><strong>Carbon Tetrachloride</strong></td>
<td>221C5</td>
<td>5.52e+4 ng/dscm %O2</td>
<td>8.28e-3 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Chlorobenzene</strong></td>
<td>221C1</td>
<td>4.31e+3 ng/dscm %O2</td>
<td>4.11e-4 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Chlorobenzene</strong></td>
<td>221C2</td>
<td>8.31e+2 ng/dscm %O2</td>
<td>9.21e-5 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Chlorobenzene</strong></td>
<td>221C3</td>
<td>7.78e+2 ng/dscm %O2</td>
<td>1.17e-4 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Chlorobenzene</strong></td>
<td>221C4</td>
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<td>1.95e-3 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td><strong>Chloroethane</strong></td>
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<tr>
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<td>1.15e-4 lbs/hr</td>
<td>C7%O2</td>
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### 7. Category: VOC
### SECTION 7: EMISSIONS ANALYSES

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<tr>
<th>Device Name: RES (TX) INCINERATOR</th>
<th>System Type: COMMERCIAL INCINERATOR</th>
<th>APC System: PT</th>
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<td>1.23e-5 lbs/hr</td>
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<td>Chloroethane 221C5</td>
<td>2.27e+3 ng/dscm 7%O2</td>
<td>3.41e-4 lbs/hr</td>
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<tr>
<td>Chloroform 221C1</td>
<td>5.58e+4 ng/dscm 7%O2</td>
<td>5.32e-3 lbs/hr</td>
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<tr>
<td>Chloroform 221C2</td>
<td>3.84e+3 ng/dscm 7%O2</td>
<td>4.26e-4 lbs/hr</td>
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<tr>
<td>Chloroform 221C3</td>
<td>4.02e+4 ng/dscm 7%O2</td>
<td>6.06e-3 lbs/hr</td>
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<tr>
<td>Chloroform 221C4</td>
<td>6.72e+3 ng/dscm 7%O2</td>
<td>1.08e-3 lbs/hr</td>
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<td>1.15e-4 lbs/hr</td>
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<td>2.67e-3 lbs/hr</td>
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<td>9.24e-3 lbs/hr</td>
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<td>1.15e-5 lbs/hr</td>
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<tr>
<td>Chloromethane 221C3</td>
<td>7.78e+1 ng/dscm 7%O2</td>
<td>1.17e-5 lbs/hr</td>
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<tr>
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<td>ND</td>
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<td>4.75e-3 lbs/hr</td>
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<td>1.67e-3 lbs/hr</td>
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<td>1.74e+4 ng/dscm 7%O2</td>
<td>2.62e-3 lbs/hr</td>
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<td>9.35e+4 ng/dscm 7%O2</td>
<td>8.91e-3 lbs/hr</td>
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<tr>
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<td>2.65e-3 lbs/hr</td>
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<tr>
<td>Methylene Chloride 221C3</td>
<td>2.84e+4 ng/dscm 7%O2</td>
<td>4.28e-3 lbs/hr</td>
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<tr>
<td>Methylene Chloride 221C4</td>
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<td>3.91e-4 lbs/hr</td>
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<td>4.48e-3 lbs/hr</td>
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## Analysis:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<tbody>
<tr>
<td>4D 2378</td>
<td>331C1R1</td>
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<td>CE7%O2</td>
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<td>4D 2378</td>
<td>331C1R3</td>
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### SECTION 7: EMISSIONS ANALYSES

**1. COMPANY:** ROSS INCINERATION SERVICES  
**2. STATE:** OH  
**3. CITY:** GRAFTON  
**4. EP ID:** 331  
**DEVICE NAME:**  
**SYSTEM TYPE:** COMMERCIAL INCINERATOR  
**APC SYSTEM:** PT/IWS  
**REGION:** 5

#### Analysis:

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<tr>
<th>Substance</th>
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**Analysis:**

**8. Substance**  
**9. Run ID**  
**Concentration**  
**Mass Rate**  
**Calc**

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**3/18/96**

**7-290**
### SECTION 7: EMISSIONS ANALYSES

1. COMPANY: ROSS INCINERATION SERVICES
2. STATE: OH
3. CITY: GRAFTON
4. EP ID: 331

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7. Category: Particulate

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3/18/96
### SECTION 7: EMISSIONS ANALYSES

1. **COMPANY:** SHELL OIL CO.
2. **STATE:** CA
3. **CITY:** MARTINEZ
4. **EP ID:** CAD009184021
5. **DEVICE NAME:** RM-17 INCINERATOR
   - **SYSTEM TYPE:** ONSITE INCINERATOR
   - **APC SYSTEM:** QC/CS/DM/VS

#### 1. COMPANY: SHELL OIL CO.
#### 2. STATE: CA
#### 3. CITY: MARTINEZ
#### 4. EP ID: CAD009184021
#### 5. DEVICE NAME: RM-17 INCINERATOR
   - **SYSTEM TYPE:** ONSITE INCINERATOR
   - **APC SYSTEM:** QC/CS/DM/VS

### 6. Description: EMISSIONS
   - **Process Group:** LIQUID INJECTION
   - **Location:** STACK
   - **Phase:** GAS

#### 7. Category: Particulate

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#### 7. Category: THC & CO

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### Section 7: Emission Analyses

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### SECTION 7: EMISSIONS ANALYSES

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2. **STATE:** TN
3. **CITY:** KINGSPORT
4. **EP ID:** 810
5. **DEVICE NAME:** LIQUID CHEMICAL DEST
6. **SYSTEM TYPE:** ONSITE INCINERATOR
7. **APC SYSTEM:** Q/VS/PBS
8. **EPA REGION:** 4

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<td>Lead</td>
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### THC & CO

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<tr>
<td>CO</td>
<td>810C1R1</td>
<td>1.21e+1 ppmv 7%O2</td>
<td>6.07e-1 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td>CO</td>
<td>810C1R2</td>
<td>1.21e+1 ppmv 7%O2</td>
<td>5.85e-1 lbs/hr</td>
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<tr>
<td>CO</td>
<td>810C1R3</td>
<td>2.37e+1 ppmv 7%O2</td>
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<tr>
<td>CO</td>
<td>810C2R1</td>
<td>1.89e+1 ppmv 7%O2</td>
<td>8.94e+1 lbs/hr</td>
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<tr>
<td>CO</td>
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<td>3.74e+1 ppmv 7%O2</td>
<td>1.73e+0 lbs/hr</td>
<td>C7%O2</td>
</tr>
<tr>
<td>CO</td>
<td>810C2R3</td>
<td>1.86e+1 ppmv 7%O2</td>
<td>8.66e+1 lbs/hr</td>
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## SECTION 7: EMISSIONS ANALYSES

### Analysis:

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<th>Run ID</th>
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<tbody>
<tr>
<td>Chlorine</td>
<td>332C1R1</td>
<td>9.07e+0 ppmv 7%O2</td>
<td>7.08e-1 lbs/hr</td>
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<td>332C1R2</td>
<td>1.20e+1 ppmv 7%O2</td>
<td>8.37e-1 lbs/hr</td>
<td>CC7%O2</td>
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<td>Chlorine</td>
<td>332C1R3</td>
<td>1.91e+1 ppmv 7%O2</td>
<td>1.17e+0 lbs/hr</td>
<td>CC7%O2</td>
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<td>1.11e+0 lbs/hr</td>
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<td>Chlorine</td>
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<td>9.61e-1 lbs/hr</td>
<td>CC7%O2</td>
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<td>HCl</td>
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<td>7.28e-1 lbs/hr</td>
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<td>HCl</td>
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<td>8.61e-1 lbs/hr</td>
<td>CC7%O2</td>
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<td>Chlorine</td>
<td>332C1R3</td>
<td>5.60e+2 ppmv 7%O2</td>
<td>1.16e+1 lbs/hr</td>
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<td>7.05e-6 lbs/hr</td>
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<td>CC7%O2</td>
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<td>Anthracene</td>
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<td>7.73e-6 lbs/hr</td>
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<td>Benzo(a)anthracene</td>
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<td>1.16e-5 lbs/hr</td>
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<td>5.30e+3 ng/dscm 7%O2</td>
<td>1.41e-4 lbs/hr</td>
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<td>Benzo(a,h,i)perylene</td>
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<td>1.72e+3 ng/dscm 7%O2</td>
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<td>Benzo(a,h,i)perylene</td>
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<td>1.98e+3 ng/dscm 7%O2</td>
<td>4.72e-5 lbs/hr</td>
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<td>1.45e-4 lbs/hr</td>
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<td>1.59e+3 ng/dscm 7%O2</td>
<td>4.23e-5 lbs/hr</td>
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<tr>
<td>Fluorene</td>
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<td>1.83e+3 ng/dscm 7%O2</td>
<td>4.35e-5 lbs/hr</td>
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<tr>
<td>Fluorene</td>
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<td>2.24e+3 ng/dscm 7%O2</td>
<td>4.64e-5 lbs/hr</td>
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<tr>
<td>Indeno(1,2,3-cd)pyrene</td>
<td>332C1R1</td>
<td>7.82e+3 ng/dscm 7%O2</td>
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<td>Indeno(1,2,3-cd)pyrene</td>
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<td>8.99e+3 ng/dscm 7%O2</td>
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<td>5.97e+3 ng/dscm 7%O2</td>
<td>1.24e-4 lbs/hr</td>
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## SECTION 7: EMISSIONS ANALYSES

1. COMPANY: THERMALKEM
2. STATE: SC
3. CITY: ROCK HILL
4. EP ID: 332

### Device Name: APC SYSTEM: SYSTEM TYPE: COMMERCIAL INCINERATOR

#### SCD04444233

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#### Category: Particulate

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<td>332C1R1</td>
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<td>Phenanthrene</td>
<td>332C1R2</td>
<td>ND</td>
<td>1.83e+3 ng/dscm</td>
<td>4.35e-5 lbs/hr</td>
<td>CE7%O2</td>
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<td>Phenanthrene</td>
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<td>2.24e+3 ng/dscm</td>
<td>4.64e-5 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Pyrene</td>
<td>332C1R1</td>
<td>ND</td>
<td>2.39e+3 ng/dscm</td>
<td>6.34e-5 lbs/hr</td>
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<td>332C1R2</td>
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<td>2.74e+3 ng/dscm</td>
<td>6.53e-5 lbs/hr</td>
<td>CE7%O2</td>
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<td>Pyrene</td>
<td>332C1R3</td>
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<td>3.36e+3 ng/dscm</td>
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#### Category: THC & CO

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<td>7.02e+2 ppmv</td>
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<td>CO</td>
<td>332C1R2</td>
<td>6.86e+2 ppmv</td>
<td>1.90e+1 lbs/hr</td>
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<tr>
<td>CO</td>
<td>332C1R3</td>
<td>4.98e+2 ppmv</td>
<td>1.20e+1 lbs/hr</td>
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<tr>
<td>CO</td>
<td>332C1R4</td>
<td>3.62e+2 ppmv</td>
<td>7.43e+0 lbs/hr</td>
<td>CE7%O2</td>
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<td>CO</td>
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#### Category: VOC

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<th>Concentration</th>
<th>Mass Rate</th>
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<td>1,4-Dioxane</td>
<td>332C1R1</td>
<td>ND</td>
<td>5.10e+4 ng/dscm</td>
<td>1.36e-3 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>1,4-Dioxane</td>
<td>332C1R2</td>
<td>ND</td>
<td>9.62e+3 ng/dscm</td>
<td>2.29e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>1,4-Dioxane</td>
<td>332C1R3</td>
<td>ND</td>
<td>1.07e+4 ng/dscm</td>
<td>2.21e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>1,4-Dioxane</td>
<td>332C1R4</td>
<td>ND</td>
<td>1.43e+4 ng/dscm</td>
<td>2.53e-4 lbs/hr</td>
<td>CE7%O2</td>
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<td>1,4-Dioxane</td>
<td>332C1R5</td>
<td>ND</td>
<td>5.00e+4 ng/dscm</td>
<td>9.87e-3 lbs/hr</td>
<td>CE7%O2</td>
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<td>332C1R1</td>
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<td>2.29e-5 lbs/hr</td>
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<td>1.07e+3 ng/dscm</td>
<td>2.21e-5 lbs/hr</td>
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<td>ND</td>
<td>1.43e+3 ng/dscm</td>
<td>2.53e-5 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Acrylonitrile</td>
<td>332C1R5</td>
<td>ND</td>
<td>1.41e+4 ng/dscm</td>
<td>2.40e-4 lbs/hr</td>
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<td>Benzene</td>
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<td>4.89e+4 ng/dscm</td>
<td>1.30e-3 lbs/hr</td>
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<td>Benzene</td>
<td>332C1R2</td>
<td>4.15e+4 ng/dscm</td>
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<td>Benzene</td>
<td>332C1R3</td>
<td>6.90e+4 ng/dscm</td>
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<td>CE7%O2</td>
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<td>Benzene</td>
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<td>1.51e+4 ng/dscm</td>
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<td>Benzene</td>
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<td>7.70e+3 ng/dscm</td>
<td>1.31e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>332C1R1</td>
<td>4.25e+5 ng/dscm</td>
<td>1.13e-2 lbs/hr</td>
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<td>Carbon Tetrachloride</td>
<td>332C1R2</td>
<td>3.71e+5 ng/dscm</td>
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<td>Chloroform</td>
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<td>Chloroform</td>
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<td>CE7%O2</td>
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<tr>
<td>Styrene</td>
<td>332C1R1</td>
<td>4.36e+3 ng/dscm</td>
<td>1.16e-4 lbs/hr</td>
<td>CE7%O2</td>
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<td>Styrene</td>
<td>332C1R2</td>
<td>3.46e+3 ng/dscm</td>
<td>8.25e-5 lbs/hr</td>
<td>CE7%O2</td>
<td></td>
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<tr>
<td>Styrene</td>
<td>332C1R3</td>
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<td>Styrene</td>
<td>332C1R4</td>
<td>5.34e+3 ng/dscm</td>
<td>9.43e-5 lbs/hr</td>
<td>CE7%O2</td>
<td></td>
</tr>
<tr>
<td>Styrene</td>
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<td>CE7%O2</td>
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<td>Tetrachloroethene</td>
<td>332C1R1</td>
<td>4.88e+5 ng/dscm</td>
<td>1.30e-2 lbs/hr</td>
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<td>Device Name</td>
<td>EP ID</td>
<td>Tetrachloroethene</td>
<td>5.33e+5 ng/dscm 7%O2</td>
<td>1.27e-2 lbs/hr</td>
<td>7%O2</td>
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<tr>
<td>----------------------------------</td>
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<tr>
<td>Tetrachloroethene</td>
<td>332C1R2</td>
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<tr>
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<td>5.47e+5 ng/dscm 7%O2</td>
<td>1.13e-2 lbs/hr</td>
<td>7%O2</td>
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<tr>
<td>Tetrachloroethene</td>
<td>332C1R4</td>
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<td>9.60e-3 lbs/hr</td>
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<tr>
<td>Tetrachloroethene</td>
<td>332C1R5</td>
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<td>1.32e-2 lbs/hr</td>
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<td>Trichloroethene</td>
<td>332C1R1</td>
<td></td>
<td>5.33e+5 ng/dscm 7%O2</td>
<td>1.41e-2 lbs/hr</td>
<td>7%O2</td>
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<tr>
<td>Trichloroethene</td>
<td>332C1R2</td>
<td></td>
<td>5.08e+5 ng/dscm 7%O2</td>
<td>1.21e-2 lbs/hr</td>
<td>7%O2</td>
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<tr>
<td>Trichloroethene</td>
<td>332C1R3</td>
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<td>5.37e+5 ng/dscm 7%O2</td>
<td>1.11e-2 lbs/hr</td>
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<tr>
<td>Trichloroethene</td>
<td>332C1R4</td>
<td></td>
<td>5.34e+5 ng/dscm 7%O2</td>
<td>9.43e-3 lbs/hr</td>
<td>7%O2</td>
</tr>
<tr>
<td>Trichloroethene</td>
<td>332C1R5</td>
<td></td>
<td>9.11e+5 ng/dscm 7%O2</td>
<td>1.55e-2 lbs/hr</td>
<td>7%O2</td>
</tr>
<tr>
<td>Trichlorofluoromethane</td>
<td>332C1R1</td>
<td>ND</td>
<td>9.34e+2 ng/dscm 7%O2</td>
<td>2.48e-5 lbs/hr</td>
<td>CE7%O2</td>
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<td>Trichlorofluoromethane</td>
<td>332C1R2</td>
<td>ND</td>
<td>9.63e+2 ng/dscm 7%O2</td>
<td>2.29e-5 lbs/hr</td>
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<tr>
<td>Trichlorofluoromethane</td>
<td>332C1R3</td>
<td>ND</td>
<td>1.07e+3 ng/dscm 7%O2</td>
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<td>Trichlorofluoromethane</td>
<td>332C1R4</td>
<td>ND</td>
<td>1.43e+3 ng/dscm 7%O2</td>
<td>2.53e-5 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Trichlorofluoromethane</td>
<td>332C1R5</td>
<td>ND</td>
<td>1.59e+3 ng/dscm 7%O2</td>
<td>2.71e-5 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Vinyl Chloride</td>
<td>332C1R1</td>
<td></td>
<td>2.43e+5 ng/dscm 7%O2</td>
<td>6.46e-3 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Vinyl Chloride</td>
<td>332C1R2</td>
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<td>1.99e+5 ng/dscm 7%O2</td>
<td>4.74e-3 lbs/hr</td>
<td>CE7%O2</td>
</tr>
<tr>
<td>Vinyl Chloride</td>
<td>332C1R3</td>
<td></td>
<td>3.04e+5 ng/dscm 7%O2</td>
<td>6.30e-3 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Vinyl Chloride</td>
<td>332C1R4</td>
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<td>2.87e+5 ng/dscm 7%O2</td>
<td>5.06e-3 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Vinyl Chloride</td>
<td>332C1R5</td>
<td></td>
<td>2.26e+5 ng/dscm 7%O2</td>
<td>3.84e-3 lbs/hr</td>
<td>CE7%O2</td>
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</table>
## SECTION 7: EMISSIONS ANALYSES

### 1. COMPANY: TRADE WASTE INCINERATION

### 2. STATE: IL

### 3. CITY: SAUGET

### 4. EP ID: ILD098642424

### 5. Type: CONTROLLED

### 6. Description: EMISSIONS

<table>
<thead>
<tr>
<th>Process Group: ROTARY KILN</th>
<th>Location: STACK</th>
<th>Phase: GAS</th>
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### 7. Category: Halogens

#### Analysis:

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<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<tbody>
<tr>
<td>Chlorine</td>
<td>333C1R1</td>
<td>7.56e-1 ppmv 7%O2</td>
<td>8.60e-2 lbs/hr</td>
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<td>Chlorine</td>
<td>333C1R2</td>
<td>8.78e-1 ppmv 7%O2</td>
<td>1.01e-1 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Chlorine</td>
<td>333C1R3</td>
<td>9.87e-1 ppmv 7%O2</td>
<td>1.16e-1 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Chlorine</td>
<td>333C1R4</td>
<td>2.70e-1 ppmv 7%O2</td>
<td>3.04e-2 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Chlorine</td>
<td>333C2R1</td>
<td>3.57e-1 ppmv 7%O2</td>
<td>3.84e-2 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Chlorine</td>
<td>333C2R2</td>
<td>2.94e-1 ppmv 7%O2</td>
<td>3.44e-2 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Chlorine</td>
<td>333C2R3</td>
<td>ND 4.8e-2 ppmv 7%O2</td>
<td>5.29e-3 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Chlorine</td>
<td>333C2R4</td>
<td>2.70e-1 ppmv 7%O2</td>
<td>3.04e-2 lbs/hr</td>
<td>CC7%O2</td>
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### 7. Category: Particulate

#### Analysis:

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<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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</thead>
<tbody>
<tr>
<td>Particulate</td>
<td>333C1R1</td>
<td>4.60e-3 gr/dscf 7%O2</td>
<td>4.08e-1 lbs/hr</td>
<td>CE</td>
</tr>
<tr>
<td>Particulate</td>
<td>333C1R2</td>
<td>1.20e-3 gr/dscf 7%O2</td>
<td>1.07e-1 lbs/hr</td>
<td>CE</td>
</tr>
<tr>
<td>Particulate</td>
<td>333C1R3</td>
<td>4.00e-4 gr/dscf 7%O2</td>
<td>3.68e-2 lbs/hr</td>
<td>CE</td>
</tr>
<tr>
<td>Particulate</td>
<td>333C1R4</td>
<td>1.50e-3 gr/dscf 7%O2</td>
<td>1.32e-1 lbs/hr</td>
<td>CE</td>
</tr>
<tr>
<td>Particulate</td>
<td>333C2R1</td>
<td>1.70e-3 gr/dscf 7%O2</td>
<td>1.51e-1 lbs/hr</td>
<td>CE</td>
</tr>
<tr>
<td>Particulate</td>
<td>333C2R2</td>
<td>2.70e-3 gr/dscf 7%O2</td>
<td>2.46e-1 lbs/hr</td>
<td>CE</td>
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<tr>
<td>Particulate</td>
<td>333C2R3</td>
<td>5.00e-4 gr/dscf 7%O2</td>
<td>4.61e-2 lbs/hr</td>
<td>CE</td>
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<tr>
<td>Particulate</td>
<td>333C2R4</td>
<td>8.00e-4 gr/dscf 7%O2</td>
<td>7.40e-2 lbs/hr</td>
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### 7. Category: SVOC

#### Analysis:

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<th>Concentration</th>
<th>Mass Rate</th>
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<tbody>
<tr>
<td>Hexachloroethane</td>
<td>333C1R1</td>
<td>5.00e+3 ng/dscm 7%O2</td>
<td>1.93e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C1R2</td>
<td>9.51e+2 ng/dscm 7%O2</td>
<td>3.70e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C1R3</td>
<td>8.28e+2 ng/dscm 7%O2</td>
<td>3.32e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C1R4</td>
<td>1.00e+2 ng/dscm 7%O2</td>
<td>3.84e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C2R1</td>
<td>1.23e+3 ng/dscm 7%O2</td>
<td>4.76e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Hexachloroethane</td>
<td>333C2R2</td>
<td>6.88e+3 ng/dscm 7%O2</td>
<td>2.74e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C2R3</td>
<td>2.30e+1 ng/dscm 7%O2</td>
<td>9.26e-7 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Hexachloroethane</td>
<td>333C2R4</td>
<td>4.26e+1 ng/dscm 7%O2</td>
<td>1.72e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
<td>333C1R1</td>
<td>1.03e+3 ng/dscm 7%O2</td>
<td>3.98e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
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<td>5.37e+2 ng/dscm 7%O2</td>
<td>2.09e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
<td>333C1R3</td>
<td>3.46e+2 ng/dscm 7%O2</td>
<td>1.39e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
<td>333C1R4</td>
<td>2.55e+2 ng/dscm 7%O2</td>
<td>9.79e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
<td>333C2R1</td>
<td>4.37e+2 ng/dscm 7%O2</td>
<td>1.69e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Trichlorobenzene</td>
<td>333C2R2</td>
<td>4.55e+2 ng/dscm 7%O2</td>
<td>1.81e-5 lbs/hr</td>
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<td>1.02e-5 lbs/hr</td>
<td>CC7%O2</td>
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<td>3.28e+2 ng/dscm 7%O2</td>
<td>1.32e-5 lbs/hr</td>
<td>CC7%O2</td>
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### 7. Category: THC & CO

#### Analysis:

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<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<td>CO</td>
<td>333C1R2</td>
<td>7.45e+0 ppmv 7%O2</td>
<td>3.37e-1 lbs/hr</td>
<td>C7%O2</td>
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<tr>
<td>CO</td>
<td>333C1R3</td>
<td>7.45e+0 ppmv 7%O2</td>
<td>3.47e-1 lbs/hr</td>
<td>C7%O2</td>
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</tbody>
</table>
**SECTION 7: EMISSIONS ANALYSES**

1. **COMPANY:** TRADE WASTE INCINERATION
2. **STATE:** IL
3. **CITY:** SAUGET
4. **EP ID:** 333
5. **DEVICE NAME:** UNIT NO. 4
6. **SYSTEM TYPE:** COMMERCIAL INCINERATOR
7. **APC SYSTEM:** SD/FF
8. **EPA ID:** ILD098642424
9. **REGION:** 5

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<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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</thead>
<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>333C1R1</td>
<td>8.83e+3 ng/dscm 7%O2</td>
<td>3.41e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>333C1R2</td>
<td>5.74e+3 ng/dscm 7%O2</td>
<td>2.24e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>333C1R3</td>
<td>1.00e+4 ng/dscm 7%O2</td>
<td>4.02e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>333C1R4</td>
<td>5.24e+3 ng/dscm 7%O2</td>
<td>2.01e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>333C2R1</td>
<td>7.03e+3 ng/dscm 7%O2</td>
<td>2.73e-4 lbs/hr</td>
<td>CE7%O2</td>
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<td>Carbon Tetrachloride</td>
<td>333C2R2</td>
<td>5.35e+3 ng/dscm 7%O2</td>
<td>2.13e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>333C2R3</td>
<td>5.00e+3 ng/dscm 7%O2</td>
<td>2.01e-4 lbs/hr</td>
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<td>Carbon Tetrachloride</td>
<td>333C2R4</td>
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<td>2.06e-4 lbs/hr</td>
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<td>Chlorobenzene</td>
<td>333C1R1</td>
<td>ND</td>
<td>6.40e+3 ng/dscm 7%O2</td>
<td>2.47e-4 lbs/hr</td>
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<td>333C1R2</td>
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<td>ND</td>
<td>4.85e+3 ng/dscm 7%O2</td>
<td>1.96e-4 lbs/hr</td>
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### SECTION 7: EMISSIONS ANALYSES

1. COMPANY: **UPJOHN CO.**
2. STATE: **MI**
3. CITY: **KALAMAZOO**
4. EP ID: **342**
5. Type: **CONTROLLED**
6. Description: **EMISSIONS**
   - Process Group: ROTARY KILN
   - Location: STACK
   - Phase: GAS

#### 7. Category: Halogens

<table>
<thead>
<tr>
<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
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<tbody>
<tr>
<td>HCl</td>
<td>342C2R1</td>
<td>2.09e-1 ppmv 7%O2</td>
<td>4.00e-3 lbs/hr</td>
<td>CC7%O2</td>
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<td>HCl</td>
<td>342C2R2</td>
<td>2.07e-1 ppmv 7%O2</td>
<td>4.00e-3 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>342C2R3</td>
<td>2.52e-1 ppmv 7%O2</td>
<td>4.00e-3 lbs/hr</td>
<td>CC7%O2</td>
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#### 7. Category: Metals

<table>
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<th>Calc</th>
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<tr>
<td>Arsenic</td>
<td>342C1R1</td>
<td>5.38e-1 ug/dscm 7%O2</td>
<td>4.57e-6 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Arsenic</td>
<td>342C1R2</td>
<td>3.04e-1 ug/dscm 7%O2</td>
<td>3.83e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Arsenic</td>
<td>342C1R3</td>
<td>3.71e-1 ug/dscm 7%O2</td>
<td>3.71e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Cadmium</td>
<td>342C1R1</td>
<td>1.02e+0 ug/dscm 7%O2</td>
<td>8.70e-6 lbs/hr</td>
<td>CC7%O2</td>
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<td>Cadmium</td>
<td>342C1R2</td>
<td>5.76e-1 ug/dscm 7%O2</td>
<td>7.24e-6 lbs/hr</td>
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<tr>
<td>Cadmium</td>
<td>342C1R3</td>
<td>8.22e-1 ug/dscm 7%O2</td>
<td>8.21e-6 lbs/hr</td>
<td>CC7%O2</td>
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<td>Chromium</td>
<td>342C1R1</td>
<td>5.87e+0 ug/dscm 7%O2</td>
<td>4.99e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Chromium</td>
<td>342C1R2</td>
<td>1.22e+0 ug/dscm 7%O2</td>
<td>1.54e-5 lbs/hr</td>
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<td>Chromium</td>
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<td>Lead</td>
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<td>2.47e-4 lbs/hr</td>
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<td>Lead</td>
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<td>1.88e+1 ug/dscm 7%O2</td>
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<tr>
<td>Lead</td>
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<td>1.18e+1 ug/dscm 7%O2</td>
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<tr>
<td>Mercury</td>
<td>342C1R1</td>
<td>6.70e+0 ug/dscm 7%O2</td>
<td>5.70e-5 lbs/hr</td>
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<tr>
<td>Mercury</td>
<td>342C1R2</td>
<td>4.37e+0 ug/dscm 7%O2</td>
<td>5.50e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Mercury</td>
<td>342C1R3</td>
<td>7.67e+0 ug/dscm 7%O2</td>
<td>7.66e-5 lbs/hr</td>
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#### 7. Category: Particulate

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<td>Particulate</td>
<td>342C1R1</td>
<td>3.60e-3 gr/dscf 7%O2</td>
<td>7.00e-2 lbs/hr</td>
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<tr>
<td>Particulate</td>
<td>342C1R2</td>
<td>5.56e-3 gr/dscf 7%O2</td>
<td>1.60e-1 lbs/hr</td>
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<td>Particulate</td>
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<td>5.00e-2 lbs/hr</td>
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#### 7. Category: VOC

<table>
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<tbody>
<tr>
<td>Carbon Tetrachloride</td>
<td>342C2R1</td>
<td>1.58e+4 ng/dscm 7%O2</td>
<td>2.00e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Carbon Tetrachloride</td>
<td>342C2R2</td>
<td>7.83e+3 ng/dscm 7%O2</td>
<td>1.00e-4 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>342C2R3</td>
<td>9.52e+3 ng/dscm 7%O2</td>
<td>1.00e-4 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Toluene</td>
<td>342C2R1</td>
<td>1.18e+4 ng/dscm 7%O2</td>
<td>1.50e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Toluene</td>
<td>342C2R2</td>
<td>3.60e+4 ng/dscm 7%O2</td>
<td>4.60e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Toluene</td>
<td>342C2R3</td>
<td>8.57e+3 ng/dscm 7%O2</td>
<td>9.00e-5 lbs/hr</td>
<td>CC7%O2</td>
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### SECTION 7: EMISSIONS ANALYSES

1. **COMPANY:** VELSCOL CHEMICAL CORPORATION  
2. **STATE:** TN  
3. **CITY:** MEMPHIS  
4. **EPA ID:** TND007024664  
5. **Type:** CONTROLLED  
6. **Description:** EMISSIONS  
7. **Location:** STACK  
8. **Phase:** GAS

<table>
<thead>
<tr>
<th>Substance</th>
<th>Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
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<tbody>
<tr>
<td>Arsenic</td>
<td>905C1R1</td>
<td>8.90e+1 ug/dscm 7%O2</td>
<td>4.60e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Arsenic</td>
<td>905C1R2</td>
<td>7.64e+1 ug/dscm 7%O2</td>
<td>3.91e-4 lbs/hr</td>
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<td>905C1R3</td>
<td>7.22e+1 ug/dscm 7%O2</td>
<td>3.65e-4 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Beryllium</td>
<td>905C1R1</td>
<td>1.78e+0 ug/dscm 7%O2</td>
<td>9.17e-6 lbs/hr</td>
<td>CE7%O2</td>
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<td>Beryllium</td>
<td>905C1R2</td>
<td>1.75e+0 ug/dscm 7%O2</td>
<td>8.95e-6 lbs/hr</td>
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<tr>
<td>Beryllium</td>
<td>905C1R3</td>
<td>1.90e+0 ug/dscm 7%O2</td>
<td>9.62e-6 lbs/hr</td>
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<tr>
<td>Cadmium</td>
<td>905C1R1</td>
<td>1.48e+3 ug/dscm 7%O2</td>
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<td>8.74e-3 lbs/hr</td>
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<td>9.33e-3 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>Chromium</td>
<td>905C1R1</td>
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<td>9.05e-5 lbs/hr</td>
<td>CE7%O2</td>
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<td>9.57e-5 lbs/hr</td>
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<td>Chromium</td>
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<td>7.83e-5 lbs/hr</td>
<td>CE7%O2</td>
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### Analysis:

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<th>Substance</th>
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<th>Calc</th>
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</thead>
<tbody>
<tr>
<td>CO</td>
<td>905C1R1</td>
<td>3.66e+1 ppmv 7%O2</td>
<td>2.19e-1 lbs/hr</td>
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<td>CO</td>
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<td>2.69e+1 ppmv 7%O2</td>
<td>1.60e-1 lbs/hr</td>
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<tr>
<td>CO</td>
<td>905C1R3</td>
<td>4.09e+1 ppmv 7%O2</td>
<td>2.40e-1 lbs/hr</td>
<td>CE7%O2</td>
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### SECTION 7: EMISSIONS ANALYSES

1. COMPANY: VERTAC SUPERFUND SITE
2. STATE: AR
3. CITY: JACKSONVILLE
4. EP ID: 914
5. Type: CONTROLLED
6. Description: EMISSIONS
7. Category: Dioxin & Furan

#### Analysis:

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<th>Calc</th>
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<tbody>
<tr>
<td>4D 2378</td>
<td>914C1R4</td>
<td>2.46e-1 ng/dscm 7%O2</td>
<td>7.54e-9 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>4D Other</td>
<td>914C1R4</td>
<td>2.37e+0 ng/dscm 7%O2</td>
<td>7.25e-8 lbs/hr</td>
<td>CE7%O2</td>
</tr>
<tr>
<td>4D Total</td>
<td>914C1R4</td>
<td>2.62e+0 ng/dscm 7%O2</td>
<td>8.00e-8 lbs/hr</td>
<td>CE7%O2</td>
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<tr>
<td>4F 2378</td>
<td>914C1R4</td>
<td>1.14e+0 ng/dscm 7%O2</td>
<td>3.48e-8 lbs/hr</td>
<td>CE7%O2</td>
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<td>4F Other</td>
<td>914C1R4</td>
<td>1.77e+1 ng/dscm 7%O2</td>
<td>5.41e-7 lbs/hr</td>
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<td>4F Total</td>
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<td>5D Other</td>
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<td>5D Total</td>
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<td>5F 23478</td>
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<td>6F Other</td>
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<td>CE7%O2</td>
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<td>CE7%O2</td>
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<td>7D Other</td>
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<td>7.88e-8 lbs/hr</td>
<td>CE7%O2</td>
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<td>7F Total</td>
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7. Category: Halogens

#### Analysis:

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### Emission Analyses

**7. Category: Particulate**

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**7. Category: SVOC**

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**7. Category: THC & CO**

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### SECTION 7: EMISSIONS ANALYSES

**1. COMPANY:** VULCAN MATERIALS CO.

**2. STATE:** KS

**3. CITY:** WICHITA

**4. EP ID:** 229

**DEVICE NAME:** ONSITE INCINERATOR

**SYSTEM TYPE:** ONSITE INCINERATOR

**APC SYSTEM:** WHB/ACS/HS3/CS

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**SECTION 7: EMISSIONS ANALYSES**

1. COMPANY: VULCAN MATERIALS CO.
2. STATE: KS
3. CITY: WICHITA
4. EP ID: 229
5. SYSTEM TYPE: ONSITE INCINERATOR
6. APC SYSTEM: WHB/ACS/HCS/CS
7. REGION: 7
8. EPA: KSD007482029
### SECTION 7: EMISSIONS ANALYSES

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#### TEQ

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<th>Device</th>
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<th>Calc</th>
</tr>
</thead>
<tbody>
<tr>
<td>229C1R2</td>
<td>1.31e+0 ng/dscm 7%O2</td>
<td>3.92e-9 lbs/hr</td>
<td>CCET</td>
</tr>
<tr>
<td>229C1R3</td>
<td>1.05e+0 ng/dscm 7%O2</td>
<td>3.48e-9 lbs/hr</td>
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<tr>
<td>229C1R4</td>
<td>1.12e+1 ng/dscm 7%O2</td>
<td>3.62e-8 lbs/hr</td>
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<td>9.74e+0 ng/dscm 7%O2</td>
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#### Total PCDD/PCDF

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<th>Calc</th>
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</thead>
<tbody>
<tr>
<td>229C1R2</td>
<td>7.25e+1 ng/dscm 7%O2</td>
<td>2.17e-7 lbs/hr</td>
<td>CCET</td>
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<tr>
<td>229C1R3</td>
<td>1.13e+2 ng/dscm 7%O2</td>
<td>3.77e-7 lbs/hr</td>
<td>CCET</td>
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<tr>
<td>229C1R4</td>
<td>3.60e+2 ng/dscm 7%O2</td>
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<tr>
<td>229C2R2</td>
<td>3.19e+2 ng/dscm 7%O2</td>
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#### 7. Category: Halogens

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<tr>
<td>HCl</td>
<td>229C1R2</td>
<td>1.10e+2 ppmv 7%O2</td>
<td>4.99e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C1R3</td>
<td>6.97e+1 ppmv 7%O2</td>
<td>3.51e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C1R4</td>
<td>9.12e+1 ppmv 7%O2</td>
<td>4.47e-1 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>HCl</td>
<td>229C2R1</td>
<td>1.35e+2 ppmv 7%O2</td>
<td>6.64e-1 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>HCl</td>
<td>229C2R2</td>
<td>1.57e+2 ppmv 7%O2</td>
<td>8.08e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C2R4</td>
<td>2.57e+2 ppmv 7%O2</td>
<td>1.36e+0 lbs/hr</td>
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<td>3.64e+0 ppmv 7%O2</td>
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<td>6.39e+0 ppmv 7%O2</td>
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<td>4.43e+1 ppmv 7%O2</td>
<td>1.90e-1 lbs/hr</td>
<td>CC7%O2</td>
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<td>HCl</td>
<td>229C4R2</td>
<td>2.25e+2 ppmv 7%O2</td>
<td>9.81e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C5R1</td>
<td>9.59e+1 ppmv 7%O2</td>
<td>5.21e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C5R2</td>
<td>7.58e+1 ppmv 7%O2</td>
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<td>HCl</td>
<td>229C6R1</td>
<td>5.13e+1 ppmv 7%O2</td>
<td>2.88e-1 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>HCl</td>
<td>229C6R2</td>
<td>4.86e+1 ppmv 7%O2</td>
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#### 7. Category: Metals

### Analysis:

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<tbody>
<tr>
<td>Arsenic</td>
<td>229C1R2</td>
<td>ND 3.77e-1 ug/dscm 7%O2</td>
<td>1.13e-6 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Arsenic</td>
<td>229C1R3</td>
<td>ND 3.42e-1 ug/dscm 7%O2</td>
<td>1.14e-6 lbs/hr</td>
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<tr>
<td>Arsenic</td>
<td>229C1R4</td>
<td>ND 3.61e-1 ug/dscm 7%O2</td>
<td>1.17e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Arsenic</td>
<td>229C2R1</td>
<td>ND 3.61e-1 ug/dscm 7%O2</td>
<td>1.17e-6 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Arsenic</td>
<td>229C2R2</td>
<td>ND 4.57e-1 ug/dscm 7%O2</td>
<td>1.56e-6 lbs/hr</td>
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<tr>
<td>Arsenic</td>
<td>229C2R4</td>
<td>ND 4.43e-1 ug/dscm 7%O2</td>
<td>1.55e-6 lbs/hr</td>
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<tr>
<td>Arsenic</td>
<td>229C3R1</td>
<td>ND 3.90e-1 ug/dscm 7%O2</td>
<td>1.00e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Arsenic</td>
<td>229C3R2</td>
<td>ND 3.54e-1 ug/dscm 7%O2</td>
<td>1.04e-6 lbs/hr</td>
<td>CC7%O2</td>
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</tbody>
</table>
### SECTION 7: EMISSIONS ANALYSES

**1. COMPANY:** VULCAN MATERIALS CO.  
**2. STATE:** KS  
**3. CITY:** WICHITA  
**4. EP ID:** 229  
**SYSTEM TYPE:** ONSITE INCINERATOR  
**APC SYSTEM:** WHB/ACS/HCS/CS  
**5. RUN ID:**  
**6. CONCENTRATION:**  
**7. Category:** Particulate

#### Analysis:

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<th>8. Substance</th>
<th>9. Run ID</th>
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<th>Mass Rate</th>
<th>Calc</th>
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<tbody>
<tr>
<td>Particulate</td>
<td>229C5R2</td>
<td>ND 5.79e-1 ug/dscm 7%O2</td>
<td>2.08e-6 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Particulate</td>
<td>229C5R3</td>
<td>ND 6.43e-1 ug/dscm 7%O2</td>
<td>2.13e-6 lbs/hr</td>
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<tr>
<td>Particulate</td>
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<tr>
<td>Particulate</td>
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<tr>
<td>Cadmium</td>
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<td>ND 3.77e+0 ug/dscm 7%O2</td>
<td>1.13e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Cadmium</td>
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<td>ND 3.42e+0 ug/dscm 7%O2</td>
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<td>CC7%O2</td>
</tr>
<tr>
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<td>1.17e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
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<td>1.56e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
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<td>1.55e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Cadmium</td>
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<td>1.00e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Cadmium</td>
<td>229C3R2</td>
<td>ND 3.54e+0 ug/dscm 7%O2</td>
<td>1.04e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Cadmium</td>
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<td>ND 5.79e+0 ug/dscm 7%O2</td>
<td>2.08e-5 lbs/hr</td>
<td>CC7%O2</td>
</tr>
<tr>
<td>Cadmium</td>
<td>229C5R2</td>
<td>ND 6.43e+0 ug/dscm 7%O2</td>
<td>2.13e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Cadmium</td>
<td>229C6R1</td>
<td>ND 6.25e+0 ug/dscm 7%O2</td>
<td>2.32e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Cadmium</td>
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<td>ND 7.02e+0 ug/dscm 7%O2</td>
<td>2.36e-5 lbs/hr</td>
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<tr>
<td>Chromium</td>
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<td>4.30e+1 ug/dscm 7%O2</td>
<td>1.29e-4 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>Chromium</td>
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<td>1.09e-4 lbs/hr</td>
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<td>Chromium</td>
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<td>2.47e-4 lbs/hr</td>
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<td>Chromium</td>
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<tr>
<td>Chromium</td>
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<td>1.73e-4 lbs/hr</td>
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<td>Chromium</td>
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<td>2.45e-4 lbs/hr</td>
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#### Analysis:

**8. Substance**  
**9. Run ID**  
**Concentration**  
**Mass Rate**  
**Calc**

**PCBs**  
**Analysis:**

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<th>9. Run ID</th>
<th>Concentration</th>
<th>Mass Rate</th>
<th>Calc</th>
</tr>
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<tbody>
<tr>
<td>PCBs</td>
<td>229C5R1</td>
<td>1.09e+4 ng/dscm 7%O2</td>
<td>3.92e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>PCBs</td>
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<td>5.91e+3 ng/dscm 7%O2</td>
<td>1.96e-5 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>PCBs</td>
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<td>9.18e-6 lbs/hr</td>
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<td>PCBs</td>
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**SVOC**

**Analysis:**

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<th>Calc</th>
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<tbody>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>229C1R2</td>
<td>ND 4.61e+2 ng/dscm 7%O2</td>
<td>1.38e-6 lbs/hr</td>
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<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>229C1R3</td>
<td>ND 3.54e+2 ng/dscm 7%O2</td>
<td>1.18e-6 lbs/hr</td>
<td>CC7%O2</td>
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<tr>
<td>1.</td>
<td>4-Chloro-3-methylphenol</td>
<td>229C1R4</td>
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<tr>
<td>2.</td>
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<td>ND</td>
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<td>3.</td>
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<td>229C2R2</td>
<td>ND</td>
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<td>229C2R4</td>
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<td>3-Chlorobenzene</td>
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<td>2-Chlorophenol</td>
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<td>9.</td>
<td>2-Chlorophenol</td>
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<td>11.</td>
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<td>2-Chlorophenol</td>
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<td>ND</td>
<td>2.89e+2 ng/dscm 7%O2</td>
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</table>
### SECTION 7: EMISSIONS ANALYSES

<table>
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<tr>
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<th>Concentration Unit</th>
<th>Concentration Value</th>
<th>CPC</th>
<th>Unit of Measure</th>
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<td>4-Chloro-3-methylphenol</td>
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<td>4.25e+2</td>
<td>CC7%O2</td>
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<td>4-Chloro-3-methylphenol</td>
<td>229C2R2</td>
<td>ND</td>
<td>3.78e+2</td>
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<tr>
<td>4-Chloro-3-methylphenol</td>
<td>229C2R4</td>
<td>ND</td>
<td>3.86e+1</td>
<td>CC7%O2</td>
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<tr>
<td>Chloroaniline</td>
<td>229C1R1</td>
<td>ND</td>
<td>2.60e+2</td>
<td>CC7%O2</td>
<td></td>
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<tr>
<td>Chloroaniline</td>
<td>229C1R3</td>
<td>ND</td>
<td>2.00e+2</td>
<td>CC7%O2</td>
<td></td>
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<tr>
<td>Chloroaniline</td>
<td>229C1R4</td>
<td>ND</td>
<td>2.03e+2</td>
<td>CC7%O2</td>
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### SECTION 7: EMISSIONS ANALYSES

#### 7. Category: VOC

##### Analysis:

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<th>Concentration</th>
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<th>Calc</th>
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### SECTION 7: EMISSIONS ANALYSES

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<td>1.50e+3 ng/dscm</td>
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<td>3/18/96</td>
<td>7%O2</td>
<td>2.15e+4 ng/dscm</td>
<td>6.98e-5 lbs/hr</td>
</tr>
<tr>
<td>Trichloroethene</td>
<td>ONSITE INCINERATOR</td>
<td>229</td>
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<td>7%O2</td>
<td>5.12e+4 ng/dscm</td>
<td>1.66e-4 lbs/hr</td>
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<td>6.09e+4 ng/dscm</td>
<td>2.13e-4 lbs/hr</td>
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<td>3.20e-6 lbs/hr</td>
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<td>7%O2</td>
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<td>1.60e-6 lbs/hr</td>
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<td>3.20e-6 lbs/hr</td>
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<td>7%O2</td>
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<td>4.29e+2 ng/dscm</td>
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