



RG-360B/11  
January 2012

# 2011 Emissions Inventory Forms and Instructions

Air Quality Division

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



# 2011 Emissions Inventory Forms and Instructions

Prepared by  
Emissions Assessment Section  
Air Quality Division  
Chief Engineer's Office

RG-360B/11  
January 2012



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# FORM INSTRUCTIONS

Here are detailed instructions for filling out **all** EAS forms, along with specimens of the forms filled out. Note that blank pages appear throughout, to ensure that the sample forms appear on left pages, and that the related instructions begin on right pages.

The EAS strongly encourages the preparer to review all of the information in this book before attempting to complete these forms.

To update site-level information, complete the Account Information form or the Contact Information form.

For regulated entities that have **never** submitted an inventory, complete the Account Emissions form in addition to the forms mentioned previously. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.

To establish the structure for a new emissions inventory, or to modify the structure of an existing emissions inventory, first list each new path on the Structural Overview form. Then complete the following:

1. For each new FIN, complete the appropriate Facility Information form. A different Facility Information form exists for each of the following facility types:
  - cleaning
  - coating or printing
  - cooling tower
  - flare (combustion unit: flare profile)
  - leaking component fugitives
  - loading
  - non-flare combustion unit
  - storage tank
  - VOC process
  - wastewater: wastewater system
  - wastewater: wastewater system component
  - other

Complete the Facility Information form that best matches the type of facility for which the EI is being prepared—for example, a Non-Flare Combustion Unit Facility Information form for an internal combustion engine.

2. For each new CIN, complete the Abatement Device Information form.
3. For each new EPN, complete the appropriate Emission Point Information form. A different form exists for each of the following emission point types:
  - flare
  - fugitive
  - stack

Complete the Emission Point Information form that best matches the type of emission point. For example, a compressor engine most likely has a stack emissions point; therefore, the Stack Emission Point Information form should be completed.

4. For each new path, complete the Path Emissions form. A path consists of a facility (tracked by its FIN) that generates emissions; an associated emission point (tracked by its EPN) where emissions enter the atmosphere; and any abatement devices (tracked by CINs) that control emissions. All paths must consist of at least a FIN and an EPN.
5. To establish or update emissions inventory contact information, complete the Contact Information form.
6. For each FIN, an optional Material Throughput form may be completed. A different form exists for each of the following emissions sources:
  - combustion units
  - feed and product operations
  - printing, painting, and degreasing facilities
  - storage and loading facilities
  - wastewater facilities

*Note:* The Material Throughput forms may be used to report confidential data. These are the only EAS forms that may be marked “confidential.”

## **Account-Level Information Forms**

**Account Information**TCEQ Emissions Inventory Year 11**SAMPLE FORM**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company		<b>TCEQ Air Account Number:</b> <sup>2</sup> HG6789X				
<b>Company Role (Mark one):</b> <sup>3</sup> <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Both		<b>Customer Reference Number (CN):</b> <sup>4</sup> CN998877665	<b>Regulated Entity Reference Number (RN):</b> <sup>5</sup> RN123456789			
<b>SITE INFORMATION</b>						
<b>Status:</b> <sup>6</sup> <input type="checkbox"/> New Point Source    OR <input checked="" type="checkbox"/> Merger If merger, provide the other site's TCEQ Air Account number: <u>HX0000Z</u>		<b>Point Source Type:</b> <sup>7</sup> <input checked="" type="checkbox"/> Stationary <input type="checkbox"/> Portable				
<b>Site Name:</b> <sup>8</sup> Creek Compressor Station		<b>Location Description:</b> <sup>9</sup> Two miles southwest of Corbin on FM 2345				
<b>Near City:</b> <sup>10</sup> Houston		<b>County:</b> <sup>11</sup> Harris	<b>ZIP Code:</b> <sup>12</sup> 78943			
<b>CENTROID GEOGRAPHICAL COORDINATES</b>						
<b>Latitude and Longitude</b> <sup>13</sup> in NAD of 1983		<b>UTM Coordinates</b> <sup>14</sup> in NAD of 1983				
Latitude ___ deg ___ min ___ sec	Longitude ___ deg ___ min ___ sec	OR	<table border="1"> <tr> <td>Zone <input type="checkbox"/> 13    <input checked="" type="checkbox"/> 14    <input type="checkbox"/> 15</td> <td>East Meters <u>614005</u></td> <td>North Meters <u>3352377</u></td> </tr> </table>	Zone <input type="checkbox"/> 13 <input checked="" type="checkbox"/> 14 <input type="checkbox"/> 15	East Meters <u>614005</u>	North Meters <u>3352377</u>
Zone <input type="checkbox"/> 13 <input checked="" type="checkbox"/> 14 <input type="checkbox"/> 15	East Meters <u>614005</u>	North Meters <u>3352377</u>				
<b>STANDARD INDUSTRIAL CLASSIFICATION CODES (SIC)</b>						
<b>Primary SIC:</b> <sup>15</sup> <u>1311</u>		<b>Secondary SIC:</b> <sup>16</sup> _____ <b>Business Description:</b> <sup>17</sup> <u>Natural Gas Compression and Transmission Station</u>				
<b>SITE STATUS AND OPERATING SCHEDULE</b>						
<b>Site Status</b> <sup>18</sup> (Mark only one box below) <input checked="" type="checkbox"/> Operational <input type="checkbox"/> Temporarily Shut Down <input type="checkbox"/> Permanently Shut Down <input type="checkbox"/> Planned <input type="checkbox"/> Seasonal <input type="checkbox"/> Under Construction <input type="checkbox"/> NESHAP Demolition <input type="checkbox"/> NESHAP Renovation <input type="checkbox"/> NESHAP Spraying		<b>Operating Schedule:</b> <sup>19</sup> <u>24</u> hours/day <u>7</u> days/week <u>52</u> weeks/year				
		<b>Total Annual Operating Time:</b> <sup>20</sup> <u>8760</u> hours				
<b>Seasonal Operating Percentages</b> <sup>21</sup> (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%) Spring: <u>25</u> %    Summer: <u>25</u> %    Fall: <u>25</u> %    Winter: <u>25</u> %						

## INSTRUCTIONS: Account Information Form

Complete the **Account Information** form only if this is the first inventory being submitted for the regulated entity. This form requests general account information that allows the EAS to correctly identify air accounts.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 3. Company Role:** Select whether the company listed is the regulated entity's owner, operator, or both. Mark only *one* box.
- 4. Customer Reference Number (CN):** The number that Central Registry assigns to an individual or business that is involved in a TCEQ-regulated activity.
- 5. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 6. Status:** Choose whether this is a **new regulated entity** or whether this regulated entity is merging with another regulated entity. Mark only *one* box. If it is a merger, please indicate the air account number of the other affected site.
- 7. Point Source Type:** Specify whether the regulated entity is a **stationary** source, or a **portable** source. Mark only *one* box. A rock crusher or a concrete batch plant is an example of a portable source.
- 8. Site Name:** The name of the regulated entity.
- 9. Location Description:** The street address or a description of the site's physical location.
- 10. Near City:** The city nearest to the site.
- 11. County:** The name of the county where the regulated entity is located.
- 12. The ZIP Code** of the site's physical location (not the mailing address).
- 13. The Latitude and Longitude** of the regulated entity's centroid, in degrees, minutes, and seconds. Use the North American Datum of 1983 (NAD83) coordinates, in whole numbers.
- 14. UTM Coordinates:** The Universal Transverse Mercator (UTM) coordinates of the regulated entity's centroid. Use the NAD83 coordinates, in whole numbers. Either lat/long or UTM coordinates may be entered (only one set of coordinates is required).
  - Zone:** Select whether the site is located in UTM zone 13, 14, or 15. Mark only *one* box.
  - East Meters:** Enter the six-digit east UTM coordinate for the site.

- North Meters:** Enter the seven-digit north UTM coordinate for the site.
- 15. Primary Standard Industrial Classification (SIC):** The four-digit numeric code that best describes the regulated entity's primary operations.
- 16. Secondary Standard Industrial Classification (SIC):** The four-digit numeric code that best describes the regulated entity's secondary operations.
- 17. Business Description:** Describe the primary business conducted at the site.
- 18. Site Status:** Pick the site's operating status during the emissions inventory year. Mark only *one* box.
- 19. Operating Schedule:** The regulated entity's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
- Hours/Day:** The number of hours per day the regulated entity is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the regulated entity is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the regulated entity is normally active; from 0 through 52.
- 20. Total Annual Operating Time:** The regulated entity's total annual operating hours. Use a whole number from 0 through 8,760.
- 21. Seasonal Operating Percentages:** The percentage of annual operations that occurred during each "season." For the emissions inventory, "spring" includes March through May; "summer" includes June through August; "fall" includes September through November; and "winter" includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.



**Contact Information**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Company Name:**<sup>1</sup> Johnson Gas Company**Site Name:**<sup>2</sup> Creek Compressor Station**TCEQ Air Account Number:**<sup>3</sup> HG6789X**EMISSIONS INVENTORY CONTACT (Do not list a consultant)****Name:**<sup>4</sup> Cody McLain**Title:**<sup>5</sup> Environmental Coordinator**Mailing Address:**<sup>6</sup> \_\_\_\_\_**Telephone Numbers and E-Mail Address**<sup>8</sup>11783 Canyon Bluff DriveBusiness: (512) 555-1144 ext: \_\_\_\_\_City: Austin State: TX ZIP Code + 4: 78753 - 0001

Alternate Business: \_\_\_\_\_ ext: \_\_\_\_\_

**Business Address:**<sup>7</sup> \_\_\_\_\_Fax: (512) 555-1515E-Mail Address: cmclain@johnsongas.com

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code + 4: \_\_\_\_\_ - \_\_\_\_\_

**PLANT OR SITE CONTACT (Do not list a consultant)****Name:**<sup>9</sup> Matoaka Johnson**Title:**<sup>10</sup> President**Mailing Address:**<sup>11</sup> \_\_\_\_\_**Telephone Numbers and E-Mail Address**<sup>13</sup>P.O. Box 2575Business: (512) 555-1144 ext: \_\_\_\_\_City: Austin State: TX ZIP Code + 4: 78753 - 2757

Alternate Business: \_\_\_\_\_ ext: \_\_\_\_\_

**Business Address:**<sup>12</sup> \_\_\_\_\_Fax: (512) 555-151511783 Canyon Bluff DriveE-Mail Address: mjohnson@johnsongas.comCity: Austin State: TX ZIP Code + 4: 78753 - 0001**Note:** If you need to update contact information for multiple sites, please complete page 2 of this form.

## INSTRUCTIONS: Contact Information Form, Page 1

Complete page 1 of the **Contact Information form** if some or all of the contact information is new or has changed. The information on this form allows the EAS to contact the appropriate person(s) regarding an emissions inventory.

1. **Company Name:** The official name of the company responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.

### Supply the following information for the emissions inventory contact person:

4. **Name:** The company employee who answers questions about the emissions inventory. The inventory will be mailed to this person. **Do not list a consultant.**
5. **Title:** The job title of the emissions inventory contact.
6. **Mailing Address:** The address where the cover letter and relevant information will be sent.
7. **Business Address:** The contact's physical address, if different from the mailing address.
8. **Telephone Numbers and E-Mail Address.**

### Supply the following information for the plant or site contact:

9. **Name:** The company employee who is responsible for responding to emissions inventory questions. **Do not list a consultant.**
10. **Title:** The job title of the plant contact.
11. **Mailing Address.**
12. **Business Address.**
13. **Telephone Numbers and E-Mail Address.**



## INSTRUCTIONS: Contact Information Form, Page 2

Complete page 2 of the **Contact Information** form if some or all of the contact information submitted on page one of the form needs to be updated for multiple regulated entities.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 3. Air Account Number:** List each TCEQ air account number whose contact information is to be updated with the contact information submitted on page 1 of the form.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Company Name:** Specify the official company name for each regulated entity whose contact information is to be updated with the contact information submitted on page 1 of the form.
- 6. Site Name:** The name of each regulated entity whose contact information is to be updated with the contact information submitted on page 1 of the form.

**Account Emissions**TCEQ Emissions Inventory Year 11**SAMPLE FORM**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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**REPORT TOTAL EMISSIONS**

CONTAMINANT	ANNUAL (tons/year) <sup>5</sup>	OZONE (pounds/day) <sup>6</sup>	SMSS (tons/year) <sup>7</sup>	Emissions Events (EE) (tons/year) <sup>8</sup>
PM <sub>10</sub> <sup>9</sup>	4.0700	22.1196	0	0
Lead <sup>10</sup>	0	0	0	0
Sulfur Dioxide <sup>11</sup>	143.6177	780.5310	0	14.3051
Nitrogen Oxides <sup>12</sup>	138.4900	752.6630	1.2050	6.3791
Carbon Monoxide <sup>13</sup>	220.9090	1200.5924	2.3498	5.6482
Volatile Organic Compounds <sup>14</sup>	44.2613	240.5505	0	9.8762
PM <sub>2.5</sub> <sup>15</sup>	4.0700	22.1196	0	0

**SITE QUANTIFIABLE EVENT TOTALS**

Note: Report TOTAL NUMBER of each event type for the reported EIY Year per 30 TAC 101.201 and 101.211.

Reportable Emission Events: <sup>16</sup> <u>2</u>	Reportable Scheduled Maintenance, Startup, Shutdown Activities: <sup>19</sup> <u>1</u>
Non-Reportable Emission Events: <sup>17</sup> <u>3</u>	Non-Reportable Scheduled Maintenance, Startup, Shutdown Activities: <sup>20</sup> <u>0</u>
Excess Opacity Events: <sup>18</sup> <u>0</u>	

**EMISSIONS EVENTS CERTIFICATION**

Pursuant to Texas Health and Safety Code 382.0215(f) I do hereby certify that no emissions events were experienced at this account during the Emissions Inventory reporting calendar year. (Sign here if and only if you reported no emissions from emissions events.)

Signature:<sup>21</sup> \_\_\_\_\_**SIGNATURE OF LEGALLY RESPONSIBLE PARTY**

I do hereby certify that information reported in this inventory is true, accurate, and fully represents the emissions that occurred during the Emissions Inventory reporting calendar year to the best of my knowledge.

Signature:<sup>22</sup> I. M. Boss Printed Name:<sup>23</sup> I. M. BossTitle:<sup>24</sup> Plant Manager Date:<sup>25</sup> March 7, 2012

## INSTRUCTIONS: Account Emissions Form

Complete an **Account Emissions** form only if no EIQ has previously been submitted for a regulated entity.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Annual (Tons/Year):** Report the site-wide annual emissions for each of the six listed criteria pollutants, in tons per year.
- 6. Ozone Pounds per Day (Ozone Season):** The site-wide daily ozone season emissions for each of the listed criteria pollutants, in pounds per day. This field is required for all regulated entities located in El Paso County or east of the 100° Central Meridian.
- 7. SMSS (Tons/Year):** The site-wide annual emissions from scheduled maintenance, startup or shutdown activities, in tons per year.
- 8. Emissions Events (EE) (Tons/Year):** The site-wide annual emissions from emissions events, in tons per year.
- 9. PM<sub>10</sub> (particulate matter 10 microns or less in diameter):** Sum of all the PM<sub>10</sub> emissions reported in the emissions inventory.
- 10. Lead:** Sum of all the lead emissions reported in the emissions inventory.
- 11. Sulfur Dioxide:** Sum of all the sulfur dioxide emissions reported in the emissions inventory.
- 12. Nitrogen Oxides:** Sum of all the nitrogen oxides emissions reported in the emissions inventory.
- 13. Carbon Monoxide:** Sum of all the carbon monoxide emissions reported in the emissions inventory.
- 14. Volatile Organic Compounds:** Sum of all the volatile organic compound emissions reported in the emissions inventory.
- 15. PM<sub>2.5</sub> (particulate matter 2.5 microns or less in diameter):** Sum of all the PM<sub>2.5</sub> emissions reported in the emissions inventory.
- 16. Reportable Emission Events:** Report the total number of reportable emission events that occurred during the inventory year. A reportable emissions event is any emissions event that, in any 24-hour period, results in an unauthorized emission from any emissions point equal to

or in excess of the reportable quantity as defined in 30 TAC 101.1. If no events occurred, fill in zero. **This should not be left blank.**

- 17. Non-Reportable Emission Events:** The total number of non-reportable emission events that occurred during the inventory year. A non-reportable emissions event is any emissions event that in any 24-hour period does not result in an unauthorized emission from any emissions point equal to or in excess of the reportable quantity as defined in 30 TAC 101.1. If no events occurred, fill in zero. **This should not be left blank.**
- 18. Excess Opacity Events:** The total number of excess opacity events where the opacity readings equaled or exceeded 15 percentage points above an applicable opacity limit, averaged over a six-minute period. If no activities occurred, fill in zero. **This should not be left blank.**
- 19. Reportable Scheduled Maintenance, Startup, Shutdown Activities:** The total number of reportable SMSS activities that occurred during the inventory year. A reportable SMSS activity is defined in 30 TAC 101.1, where prior notice and a final report is submitted as required by 30 TAC 101.211. If no activities occurred, fill in zero. **This should not be left blank.**
- 20. Non-Reportable Scheduled Maintenance, Startup, Shutdown Activities:** The total number of non-reportable SMSS activities that occurred during the inventory year. A non-reportable SMSS activity is one that is recorded as required by 30 TAC 101.211. If no activities occurred, fill in zero. **This should not be left blank.**
- 21. Emissions Events Certification:** Sign this statement if the site experienced no emissions from emissions events.
- 22. Signature:** This should only be signed by the legally responsible person for the regulated entity. The legally responsible person is certifying that the information reported in the inventory is true, accurate, and fully represents the emissions that occurred during the emissions inventory reporting calendar year. Note that the legally responsible party cannot be a consultant. For questions regarding the definition of the legally responsible party, please consult 30 TAC 122.165, Certification by a Responsible Official.
- 23. Printed Name:** Print the signer's name clearly.
- 24. Title:** The signer's title.
- 25. Date:** Indicate the date that the certifying statement was signed.



# Structural Overview

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

Page 1 of 1 Structural Overview pages

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X
---	---	--

NEW OR MODIFIED PATHS LIST																														
Facility Identification Number (FIN) <sup>4</sup> <i>10-character maximum</i>										Emission Point Number (EPN) <sup>5</sup> <i>10-character maximum</i>										Control Identification Number (CIN) <sup>6</sup> <i>10-character maximum</i>					Primary Indicator <sup>7</sup>					
T	A	N	K	1						F	L	A	R	E	1					F	L	A	R	E	1					
F	L	A	R	E	1					F	L	A	R	E	1															
T	A	N	K	2						T	A	N	K	2																
E	N	G	I	N	E	1				S	T	A	C	K	1	A														
E	N	G	I	N	E	2				S	T	A	C	K	1	B														
P	A	I	N	T	B	T	H	1		V	E	N	T	A																
P	A	I	N	T	B	T	H	2		V	E	N	T	A																
G	R	I	N	D	E	R	5			V	E	N	T	5						V	E	N	T	U	R	I	5			
G	R	I	N	D	E	R	5			V	E	N	T	5						B	A	G	H	O	U	S	E	1		YES

## INSTRUCTIONS: Structural Overview Form

List all new or modified paths on the **Structural Overview** form first when emissions inventory structure is added or changed. Properly completing this form allows the EAS to ensure that the emissions inventory structure accurately reflects the regulated entity's processes.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Facility Identification Number (FIN):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit.
- 5. Emission Point Number (EPN):** Assign a unique label that identifies the emission point. The EPN is limited to 10 alphanumeric characters. The emissions inventory EPN *must* match the number on the site's permit.
- 6. Control Identification Number (CIN):** Assign a unique label that identifies the abatement device. The CIN is limited to 10 alphanumeric characters.
- 7. Primary Indicator:** Indicate the primary abatement device by writing "Yes" for paths with multiple abatement devices. *Primary abatement device* is defined as the **first** control device (in sequence) for a specific source.



## Facility Information Forms

**Facility Information**  
TCEQ Emissions Inventory Year 11

# SAMPLE FORM

**Cleaning**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> PARTS6
--	--	---	---

**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> DEGREASER6	<b>Facility Name:</b> <sup>6</sup> Perc Parts Degreaser 6	<b>SCC:</b> <sup>7</sup> 4 0 1 0 0 2 5 3
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE):  <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup>  <u>8/29/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>16</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%) Spring: <u>0</u> %    Summer: <u>3</u> %    Fall: <u>88</u> %    Winter: <u>9</u> %	<b>Annual Operating Hours:</b> <sup>12</sup> <u>2080</u>
	<b>Percent Max Capacity:</b> <sup>13</sup> <u>16</u> %

**CLEANING PROCESS PROFILE**

**Process Type**<sup>14</sup> (Profile) (Mark only *one* box below)

<input type="checkbox"/> Vapor Degreasing	<input checked="" type="checkbox"/> Dip Degreasing	<input type="checkbox"/> Barge Cleaning
<input type="checkbox"/> Railcar Cleaning	<input type="checkbox"/> Tank Truck Cleaning	<input type="checkbox"/> Other: _____

**FACILITY COMMENTS**<sup>15</sup>

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## INSTRUCTIONS: Cleaning Facility Information Form

Complete the **Cleaning Facility Information** form to add cleaning processes or operations to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters and is an optional field. *Example:* PARTS6
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* DEGREASER6
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* PERC PARTS DEGREASER 6
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

11. **Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.
12. **Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.
13. **Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

14. **Process Type (Profile):** Indicate the type of cleaning process. Mark only one box. For “Other,” describe the cleaning process in the space provided. This field is limited to 100 alphanumeric characters.
15. **Facility Comments:** Describe the facility’s function; or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



**Facility Information**  
TCEQ Emissions Inventory Year 11

# SAMPLE FORM

**Coating or Printing**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> PARTS3
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> PAINTBTH 3	<b>Facility Name:</b> <sup>6</sup> Paint Booth Number 3	<b>SCC:</b> <sup>7</sup> 4 0 2 0 2 5 0 1
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only ONE</i> ): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/14/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>16</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup>	Spring: <u>25</u> %    Summer: <u>25</u> %    Fall: <u>25</u> %    Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>4480</u>
		<b>Percent Max Capacity:</b> <sup>13</sup> <u>16</u> %

**FACILITY COMMENTS**<sup>14</sup>

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## INSTRUCTIONS: Coating or Printing Facility Information Form

Complete the **Coating or Printing Facility Information** form to add a surface coating or printing operation to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters, and is an optional field. *Example:* PARTS3
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* PAINTBTH3
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* PAINT BOOTH NUMBER 3
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



**Facility Information**  
TCEQ Emissions Inventory Year 11

**SAMPLE FORM**

**Cooling Tower**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> ETO UNIT
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> CT3	<b>Facility Name:</b> <sup>6</sup> Unit 3 Cooling Tower	<b>SCC:</b> <sup>7</sup> <input checked="" type="checkbox"/> 38500101 (Mechanical Draft) <input type="checkbox"/> 38500102 (Natural Draft)
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**OPERATING SCHEDULE**

<b>Facility Status (Circle only ONE):</b> <sup>8</sup> <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>01/01/04</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE: Start Time REQUIRED</b> Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> %    Summer: <u>25</u> %    Fall: <u>25</u> %    Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u>	
		<b>Percent Max Capacity:</b> <sup>13</sup> <u>43</u> %

<b>DESIGN INFORMATION</b>	<b>SAMPLING DATA</b>
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<b>HRVOC Service?</b> <sup>14</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Number of Cells:</b> <sup>17</sup> <u>1</u>
<b>Design Flow Rate:</b> <sup>15</sup> <u>7</u> MMgal/day (maximum)	<b>Sampled for VOC?</b> <sup>18</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Draft Design Type:</b> <sup>16</sup> <input type="checkbox"/> Natural Draft <input checked="" type="checkbox"/> Mechanical Draft	<b>Sampling Schedule:</b> <sup>19</sup> <input type="checkbox"/> Daily <input checked="" type="checkbox"/> Weekly <input type="checkbox"/> Monthly <input type="checkbox"/> Other: _____
	<b>Sampling Data Used to Calculate Emissions?</b> <sup>20</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**FACILITY COMMENTS**<sup>21</sup>

Sampled for VOCs using Method 8260B

## INSTRUCTIONS: Cooling Tower Facility Information Form

Complete the **Cooling Tower Facility Information** form to add a cooling tower to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters, and is an optional field.  
*Example:* ETO UNIT
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* CT3
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* UNIT 3 COOLING TOWER
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. Select the appropriate SCC for the cooling tower.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.
- 11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each "season." For the emissions inventory, "spring" includes March

through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. HRVOC Service?:** Indicate whether the cooling water cools any process equipment or process fluid stream containing over 5 percent by weight of aggregate highly reactive volatile organic compounds (HRVOCs—ethylene, propylene, all isomers of butane, and 1,3-butadiene). Mark only *one* box.

**15. Design Flow Rate:** The maximum flow rate the tower is designed to accommodate, in million gallons per day.

**16. Draft Design Type:** Indicate whether the tower is designed with natural draft or mechanical draft.

**17. Number of Cells:** The number of cells that make up the cooling tower (for mechanical draft towers).

**18. Sampled for VOC?:** Designate whether the samples are tested for VOC content.

**19. Sampling Schedule:** Specify the sampling schedule. Mark only *one* box. For “Other,” describe the sampling schedule in the space provided.

**20. Sampling data used to calculate emissions?:** State whether emissions are estimated using sampling data.

**21. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. If samples are tested for VOCs, describe the test method here. This field is limited to 100 alphanumeric characters.



**Facility Information**

TCEQ Emissions Inventory Year 11

**SAMPLE FORM**

**Combustion Unit: Flare Profile**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> BD PROCESS
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> FLARE 1	<b>Facility Name:</b> <sup>6</sup> S-Series Flare	<b>SCC:</b> <sup>7</sup> 3 1 0 0 0 2 0 5
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0800</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> % Summer: <u>25</u> % Fall: <u>25</u> % Winter: <u>25</u> % <b>(NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)</b>	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u>	<b>Percent Max Capacity:</b> <sup>13</sup> <u>84</u> %
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<b>ASSIST TYPE</b> <sup>14</sup> <input checked="" type="checkbox"/> Steam Assisted <input type="checkbox"/> Unassisted <input type="checkbox"/> Air Assisted	<b>SERVICE TYPE</b> <sup>15</sup> <input checked="" type="checkbox"/> Routine Process <input type="checkbox"/> Upset/Maintenance <input type="checkbox"/> Both Routine Process and Upset/Maintenance	<b>DESIGN CAPACITY</b> <sup>16</sup> <u>2.74</u> MMBtu/hr <b>HRVOC Service?</b> <sup>17</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
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**FACILITY COMMENTS**<sup>18</sup>

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## INSTRUCTIONS: Combustion Unit—Flare Profile Facility Information Form

Complete the **Combustion Unit—Flare Profile Facility Information** form to add a flare to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters, and is an optional field. *Example:* BD PROCESS
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* FLARE1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* S-SERIES FLARE
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Assist Type:** Select the flare’s assist type. Mark only *one* box.

**15. Service Type:** Indicate the flare’s service type. Mark only *one* box.

**16. Design Capacity:** The unit’s maximum heat input rating, in million Btu per hour.

**17. HRVOC Service?:** Specify whether any individual gas stream routed to the flare contains more than 5 percent by weight of aggregate highly reactive volatile organic compounds (HRVOCs—ethylene, propylene, all isomers of butane, and 1,3-butadiene). Mark only one box.

**18. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



### Facility Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

### Component Fugitives

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> ELFUG1
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#### FACILITY IDENTIFICATION

<b>FIN:</b> <sup>5</sup> FUG1	<b>Facility Name:</b> <sup>6</sup> Fugitive Area Number 1	<b>SCC:</b> <sup>7</sup> 3 1 0 0 0 2 2 0
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#### OPERATING SCHEDULE

<b>Facility Status</b> <sup>8</sup> (Circle ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> %    Summer: <u>25</u> %    Fall: <u>25</u> %    Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u>	<b>Percent Max Capacity:</b> <sup>13</sup> <u>100</u> %
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<b>EMISSIONS DETERMINATION METHODOLOGY</b> <sup>14</sup> (Mark <i>one</i> . If more than one method is used, create separate FINs.)	<b>% VOC in Stream</b> <sup>15</sup>
<input checked="" type="checkbox"/> Oil and gas factors <input type="checkbox"/> SOCM1 average factors <input type="checkbox"/> SOCM1 screening range factors (leak/no leak) <input type="checkbox"/> Refinery factors <input type="checkbox"/> SOCM1 with ethylene factors <input type="checkbox"/> Correlation equations <input type="checkbox"/> Petroleum marketing terminal factors <input type="checkbox"/> SOCM1 without ethylene factors <input type="checkbox"/> Other (explain): _____	Gas/vapor: <u>5.8</u> Light Liq: <u>98.5</u>

<b>LEAK DETECTION AND REPAIR (LDAR) PROGRAM</b> <sup>16</sup> (If more than one LDAR program is used, create separate FINs.)	<b>LDAR Present?</b> <sup>17</sup>
<input type="checkbox"/> 28LAER <input type="checkbox"/> 28M <input type="checkbox"/> 28MID <input type="checkbox"/> 28RCT <input checked="" type="checkbox"/> 28VHP <input type="checkbox"/> AVO <input type="checkbox"/> HRVOC <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Monitoring equipment data:**<sup>18</sup> Calibration Range (ppm): 5 min 10,000 max    Pegged component screening value: 100,000 ppm

**Connector monitoring program:**<sup>19</sup>     28CNTA                       28CNTQ                       None

**This LDAR program is** (mark only *one box*):<sup>20</sup>     Voluntary                       Required by permit or rule

#### FACILITY COMMENTS<sup>21</sup>

## INSTRUCTIONS: Component Fugitives Facility Information Form

Complete the **Component Fugitives Facility Information** form for each FIN representing a piping component fugitive area.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters, and is an optional field. *Example:* ELFUG1
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* FUG1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* FUGITIVE AREA NUMBER 1
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Emissions Determination Methodology:** Select the method used to determine the piping fugitive emissions.

**15. % VOC in Stream:** Enter the average VOC content as a percentage for the gas-vapor stream and the light liquid stream.

**16. Leak Detection and Repair (LDAR) Program:** Specify the LDAR program for the fugitive area.

**17. LDAR Present?:** Indicate whether an LDAR program is present for the fugitive area.

**18. Monitoring Equipment Data:** Indicate the minimum and maximum value ranges for the equipment’s calibration and the “pegged” component screening value.

**19. Connector Monitoring Program:** The connector monitoring program for the fugitive area.

**20. This LDAR Program Is:** Indicate whether monitoring is voluntary or required by a rule or permit.

**21. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



**Facility Information**  
TCEQ Emissions Inventory Year 11

**SAMPLE FORM**

**Loading**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> TERMINAL3
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> TNKTRKLDG3	<b>Facility Name:</b> <sup>6</sup> Terminal 3 Tank Truck Loading	<b>SCC:</b> <sup>7</sup> 4 0 4 0 0 1 5 0
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>6/11/05</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0800</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>0</u> %    Summer: <u>30</u> %    Fall: <u>55</u> %    Winter: <u>15</u> % <b>(NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)</b>	<b>Annual Operating Hours:</b> <sup>12</sup> <u>4380</u> <b>Percent Max Capacity:</b> <sup>13</sup> <u>44</u> %
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**LOADING PROFILE**

**Loading Type (Profile)**<sup>14</sup> (Mark only *one* box below)

Railcar and Tank Truck     Railcar     Tank Truck     Marine     Other: \_\_\_\_\_

**FACILITY COMMENTS**<sup>15</sup>

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## INSTRUCTIONS: Loading Facility Information Form

Complete the **Loading Facility Information** form to add loading operations to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* TERMINAL3
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* TNKTRKLDG3
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* TERMINAL 3 TANK TRUCK LOADING
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Loading Type (Profile):** Indicate the type of loading process. Mark only one box. For “Other,” describe the loading process in the space provided.

**15. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



### Facility Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

### Non-Flare Combustion Unit

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> PROCESS1
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#### FACILITY IDENTIFICATION

<b>FIN:</b> <sup>5</sup> ENGINE1	<b>Facility Name:</b> <sup>6</sup> Compressor Engine Number 1	<b>SCC:</b> <sup>7</sup> 2 0 2 0 0 2 5 4
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#### OPERATING SCHEDULE

<b>Facility Status</b> <sup>8</sup> (Circle <i>only ONE</i> ): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>2/25/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>20</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>30</u> %    Summer: <u>29</u> %    Fall: <u>31</u> %    Winter: <u>10</u> % <b>(NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)</b>	<b>Annual Operating Hours:</b> <sup>12</sup> <u>7280</u>
	<b>Percent Max Capacity:</b> <sup>13</sup> <u>77</u> %

#### COMBUSTION PROFILE AND DETAIL

**Unit Type**<sup>14</sup> (Profile) (Mark only *one* box below)

<input type="checkbox"/> Heater	<input type="checkbox"/> Boiler	<input type="checkbox"/> Dryer	<input type="checkbox"/> IC Engine: ___ -cycle, ___ -burn	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Furnace
<input type="checkbox"/> Kiln	<input type="checkbox"/> Turbine	<input type="checkbox"/> Oven	<input type="checkbox"/> Fluid Catalytic Cracking Unit (FCCU)	<input type="checkbox"/> Thermal Oxidizer	
<input type="checkbox"/> Boiler—EGU	<input checked="" type="checkbox"/> IC Engine—EGU: <u>4</u> -cycle, <u>LEAN</u> -burn	<input type="checkbox"/> Turbine—EGU	<input type="checkbox"/> Other: _____		

**Firing Type**<sup>15</sup> (Mark *one*):     Front     Opposed     Tangential     Internal     Other:

<b>Design Capacity:</b> <sup>16</sup> <u>160</u> MMBtu/hr	<b>Engine Rating:</b> <sup>17</sup> <u>2085</u> hp	<b>Power-Generation Capacity:</b> <sup>18</sup> <u>28</u> MW
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#### FACILITY COMMENTS

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## INSTRUCTIONS: Non-Flare Combustion Unit Facility Information Form

Complete the **Non-Flare Combustion Unit Facility Information** form to add a combustion unit *other than a flare* to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* PROCESS1
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* ENGINE1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* COMPRESSOR ENGINE NUMBER 1
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.
- 11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each "season." For the emissions inventory, "spring" includes March

through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Unit Type (Profile):** Select the type of combustion unit. Mark only *one* box.

- For “IC Engine” or “IC Engine—EGU,” fill in the number of cycles (2 or 4) and the engine burn type (rich or lean).
- If the selection is “Other,” please describe the type of combustion unit in the space provided.
- Note that electric generation units (EGUs) have their own separate profiles: Boiler—EGU, IC Engine—EGU, and Turbine—EGU. For EI purposes, an EGU is defined as a unit that contains boilers, auxillary steam boilers, I.C. engines or stationary gas turbines (including duct burners used in turbine exhaust ducts) that generate electricity for compensation, and is owned or operated by a person doing business in Texas, including a municipal corporation, an electric cooperative, or a river authority.

**15. Firing Type:** Choose the most appropriate burner type. Mark only *one* box. For “Other,” describe the firing type in the space provided.

**16. Design Capacity:** The unit’s maximum heat input rating, in million Btu per hour.

**17. Engine Rating:** Indicate the unit’s work output, in horsepower.

**18. Power-Generation Capacity:** Specify the maximum electrical generating output in megawatts for electric generation units. The capacity is based on a continuous steady-state operation.

**19. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



# Facility Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

# Storage Tank

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> TANK FARM1
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### FACILITY IDENTIFICATION

<b>FIN:</b> <sup>5</sup> OILTANK4	<b>Facility Name:</b> <sup>6</sup> Oil Tank Number 4	<b>SCC:</b> <sup>7</sup>	4	0	4	0	0	3	0	1
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### OPERATING SCHEDULE

<b>Facility Status</b> <sup>8</sup> (Circle ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Status Effective Date:</b> <sup>9</sup> <u>1/1/05</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0800</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> % Summer: <u>25</u> % Fall: <u>25</u> % Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u> <b>Percent Max Capacity:</b> <sup>13</sup> <u>100</u> %
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### TANK DETAIL

#### Tank Type<sup>14</sup> (Mark only one box below)

- |   |   |   |  |
|---|---|---|--|
| <input checked="" type="checkbox"/> Horizontal fixed roof | <input type="checkbox"/> Internal floating roof                       | <input type="checkbox"/> External floating roof: double deck, single seal | <input type="checkbox"/> Domed external floating roof: double deck |
| <input type="checkbox"/> Vertical fixed roof              | <input type="checkbox"/> Pressure tank                                | <input type="checkbox"/> External floating roof: double deck, double seal | <input type="checkbox"/> Domed external floating roof: pontoon     |
| <input type="checkbox"/> Underground tank                 | <input type="checkbox"/> External floating roof: pontoon, single seal | <input type="checkbox"/> External floating roof: pontoon, double seal     | <input type="checkbox"/> Other: _____                              |

<b>Tank Dimensions</b> <sup>15</sup> Length (Horizontal Fixed Roof) or Height (for all other tanks): <u>25</u> ft Diameter: <u>10</u> ft Capacity: <u>14.68</u> M gallons	<b>Tank Location</b> <sup>16</sup> <input checked="" type="checkbox"/> Above Ground <input type="checkbox"/> Below Ground	<b>Shell Characteristics</b> <sup>17</sup> Color/Shade: <u>LG</u> Paint Condition: <u>G</u> Construction: <u>W</u> Internal Shell Condition: <u>G</u>	<b>Fill Method</b> <sup>18</sup> (Mark one) <input type="checkbox"/> Submerged <input checked="" type="checkbox"/> Splash <input type="checkbox"/> Bottom <b>Vapor Space Ht:</b> <sup>19</sup> <u>10</u> ft
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<b>Roof Characteristics</b> <sup>20</sup> Color/Shade: <u>LG</u> Slope (if cone): <u>0.0625</u> ft/ft Paint Condition: <u>G</u> Radius (if dome): _____ ft	<b>Hot Product Tanks</b> <sup>21</sup> Is the tank heated? (VFR only) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Stores hot products? (all tanks) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>Breather Vent Settings</b> <sup>22</sup> Vacuum: <u>-0.03</u> psig Pressure: <u>-0.03</u> psig
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<b>Floating-Roof Tank Construction and Rim-Seal System</b> <sup>23</sup> Primary Seal: _____ Secondary Seal: _____	<b>Non-Self-Supporting Internal Floating-Roof Tank Columns</b> <sup>24</sup> Number of Columns: _____ Effective Column Diameter (if known): _____
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#### Internal Floating-Roof Tank Deck Characteristics<sup>25</sup>

Deck Type: \_\_\_\_\_ Deck Fitting Category: \_\_\_\_\_ Construction: \_\_\_\_\_ Deck Seam: \_\_\_\_\_ Deck Seam Length: \_\_\_\_\_ feet

### FACILITY COMMENTS<sup>26</sup>

## INSTRUCTIONS: Storage Tank Facility Information Form

Complete the **Storage Tank Facility Information** form to add a tank to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* TANK FARM1
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* OILTANK4
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* OIL TANK NUMBER 4
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Tank Type:** Indicate the tank type. Mark only *one* box. For “Other,” describe the tank type in the space provided.

**15. Tank Dimensions:** List the tank height (if vertical) or length (if horizontal), in feet; tank diameter, in feet; and tank capacity, in thousand gallons.

**16. Tank Location:** Specify whether the tank is located above or below ground. Mark only *one* box.

**17. Shell Characteristics:** The tank’s exterior paint color and shade, exterior paint condition, and internal shell condition. The available choices for each are—

**Color/Shade:** **AD** (aluminum: diffuse or non-reflective), **AS** (aluminum: specular or reflective), **LG** (light gray), **MD** (medium gray), **WH** (white), or **OT** (other)

**Paint Condition:** **G** (good) or **P** (poor)

**Construction:** **E** (epoxy-coated rivets), **F** (fiberglass), **G** (gunite), **R** (riveted), **W** (welded), or **O** (other)

**Internal Shell Condition:** **G** (good) or **P** (poor)

**18. Fill Method:** Select how the tank is filled. Mark only *one* box.

**19. Vapor Space Height:** The tank’s average vapor space height, in feet.

**20. Roof Characteristics:** The tank’s roof paint color and shade; roof paint condition; and roof slope (cone) or roof radius (dome). The available choices for roof color and condition are—

**Color/Shade:** **AD** (aluminum: diffuse or non-reflective), **AS** (aluminum: specular or reflective), **LG** (light gray), **MD** (medium gray), **WH** (white), or **OT** (other)

**Paint Condition:** **G** (good) or **P** (poor)

**21. Hot Product Tanks—**

**Is the tank heated?:** For vertical fixed roof tanks only, indicate whether the tank is heated to a constant temperature above ambient temperature. For all other tanks, indicate “No.”

- Stores hot products?:** Indicate whether the tank stores hot products—defined as materials with temperatures above ambient temperature. For pressure tanks, indicate “No.”
- 22. Breather Vent Settings:** Specify the tank’s vacuum and pressure settings, in pounds per square inch, gauge.
- 23. Floating-Roof Tank Construction and Rim-Seal System:** Describe the construction and rim-seal system for floating roof tanks. The available choices are—
- Primary Seal:** **LM** (liquid-mounted), **MS** (mechanical shoe), **VR** (vapor rim), or **OT** (other)
  - Secondary Seal:** **NO** (none), **RM** (rim-mounted), **SM** (shoe-mounted), **WS** (weather shield), or **OT** (other)
- 24. Non–Self-Supporting Internal Floating-Roof Tank Column Information:** The number of columns and effective column diameter for non–self-supporting internal floating-roof tanks.
- 25. Floating-Roof Tank Deck Characteristics:** Indicate the deck type, fitting category, construction, seam, and seam length. The available choices for each are:
- Deck Type:** **B** (bolted) or **W** (welded)
  - Deck Fitting Category:** **D** (detailed) or **T** (typical)
  - Construction:** **P** (panel) or **S** (sheet)
  - Deck Seam:** **5 × 7.5 ft** or **5 × 12 ft** (for panel construction)  
**5 ft, 6 ft, or 7 ft** (for sheet construction)
  - Deck Seam Length:** Report the total length of all bolted or riveted seams on the deck, in feet. Enter **0** for welded decks.
- 26. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.

Note: All tank characteristics are defined within the *User’s Guide to TANKS* at [www.epa.gov/ttn/chief/software/tanks/tank4man.pdf](http://www.epa.gov/ttn/chief/software/tanks/tank4man.pdf)

### Facility Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

### VOC Process

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> HDPE UNIT 3
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#### FACILITY IDENTIFICATION

<b>FIN:</b> <sup>5</sup> HDPEUNIT3	<b>Facility Name:</b> <sup>6</sup> HD Polyethylene Unit 3	<b>SCC:</b> <sup>7</sup> 3 0 1 0 1 8 0 7
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#### OPERATING SCHEDULE

<b>Facility Status</b> <sup>8</sup> (Circle <i>only ONE</i> ): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>16</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>30</u> %    Summer: <u>20</u> %    Fall: <u>25</u> %    Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u>	<b>Percent Max Capacity:</b> <sup>13</sup> <u>83</u> %

#### PROCESS PROFILE

**Unit Type**<sup>14</sup> (Profile) (Mark only *one* box below)

<input type="checkbox"/> Analyzer	<input type="checkbox"/> Polypropylene unit	<input checked="" type="checkbox"/> Polyethylene unit	<input type="checkbox"/> Mixing vessel	<input type="checkbox"/> Reactor
<input type="checkbox"/> Glycol still	<input type="checkbox"/> Blowdown operations	<input type="checkbox"/> Flexi coker unit	<input type="checkbox"/> Delayed coker unit	<input type="checkbox"/> Other: _____

#### FACILITY COMMENTS

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## INSTRUCTIONS: VOC Process Facility Information Form

Complete the **VOC Process Facility Information** form to add a VOC process not currently covered by one of the other FIN group types.

1. **Company Name:** The official name of the company responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* HDPE UNIT 3
5. **FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* HDPEUNIT3
6. **Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* HD POLYETHYLENE UNIT 3
7. **SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible. Based on the unit type, use the following codes:

Unit Type	SCC
Glycol Still	31000227
Polyethylene Unit (Low Density)	30101812
Polyethylene Unit (High Density)	30101807
Polypropylene Unit	30101802
Blowdown Operations (with vapor recovery vented to flare)	30600401
Blowdown Operations (without control)	30600402
Delayed Coker Unit	30601402
Flexi Coker Unit	30601201

For a unit type of **Other** that is not listed above, choose an SCC that best represents the process.

8. **Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.

- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility’s normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
- Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
- Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
- Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
- Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.
- 11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.
- 12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.
- 13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—
- $$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$
- 14. Unit Type (Profile):** Indicate the type of VOC process. Mark only *one* box. For “Other,” describe the unit in the space provided.
- 15. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



**Facility Information**  
TCEQ Emissions Inventory Year 11

# SAMPLE FORM

**Wastewater:  
Wastewater System**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> TREATMENTA
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> POND 1	<b>Facility Name:</b> <sup>6</sup> Holding Pond Number 1	<b>SCC:</b> <sup>7</sup> 3 0 6 0 0 5 1 9
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>20</u> % Summer: <u>29</u> % Fall: <u>21</u> % Winter: <u>30</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u> <b>Percent Max Capacity:</b> <sup>13</sup> <u>88</u> %	

**WASTEWATER DETAIL**

<b>Aeration:</b> <sup>14</sup> <input checked="" type="checkbox"/> Diffused Air <input type="checkbox"/> Mechanical <input type="checkbox"/> None	<b>Flow Rate:</b> <sup>15</sup> <u>10</u> MMGD	<b>Biodegradation Mechanism:</b> <sup>16</sup> <input type="checkbox"/> Biodegradation Activity <input checked="" type="checkbox"/> Activated Sludge Activity <input type="checkbox"/> None
<b>Depth:</b> <sup>17</sup> <u>5</u> ft	<b>Surface Area:</b> <sup>18</sup> <u>10,000</u> ft <sup>2</sup>	<b>Flow Model:</b> <sup>19</sup> <input checked="" type="checkbox"/> Flowthrough <input type="checkbox"/> Disposal
<b>Device Type:</b> <sup>21</sup> <input type="checkbox"/> Surface Impoundment <input checked="" type="checkbox"/> Subsurface Impoundment <input type="checkbox"/> Other (specify): _____		

**COMPONENT COUNTS**<sup>22</sup>

<b>Drains</b> (p-leg seal): _____	<b>Drains</b> (water pot seal): _____	<b>Drains</b> (no water seal): _____
<b>Covered lift stations:</b> _____ totaling _____ ft <sup>2</sup>	<b>Uncovered lift stations:</b> _____ totaling _____ ft <sup>2</sup>	<b>Dedicated sewer vents:</b> _____
<b>Covered junction boxes:</b> _____ totaling _____ ft <sup>2</sup>	<b>Uncovered junction boxes:</b> _____ totaling _____ ft <sup>2</sup>	<b>Manholes:</b> _____
<b>Covered trenches:</b> _____ totaling _____ linear feet	<b>Uncovered trenches:</b> _____ totaling _____ linear feet	<b>Weirs:</b> _____ totaling _____ ft <sup>2</sup>

**FACILITY COMMENTS**<sup>23</sup>

\_\_\_\_\_

\_\_\_\_\_

## INSTRUCTIONS: Wastewater System Facility Information Form

Complete the **Wastewater System Facility Information** form to add a wastewater system to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* TREATMENTA
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* POND1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* HOLDING POND NUMBER 1
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.
- 11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each "season." For the emissions inventory, "spring" includes March through May; "summer" includes June through August; "fall" includes September

through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Aeration:** Indicate the type of aeration. Mark only *one* box.

**15. Flow Rate:** The flow rate through the facility, in million gallons per day.

**16. Biodegradation Mechanism:** Select the type of biodegradation used. Mark only one box.

**17. Depth:** The wastewater facility’s depth, in feet.

**18. Surface Area:** The wastewater facility’s surface area, in square feet.

**19. Flow Model:** Describe whether the facility receives wastewater for ultimate disposal (choose disposal), or whether it continuously receives wastewater feed and discharges treated water (choose flowthrough).

**20. Prestripping Performed?:** Specify whether the wastewater is prestripped prior to treatment.

**21. Device Type:** The wastewater system device type. Mark only *one* box. For “Other,” describe the device.

**22. Component Counts:** The number of each component type, and each associated total surface area, in square feet.

**23. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



### Facility Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

### Wastewater: Wastewater System Component

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> TREATMENTA
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#### FACILITY IDENTIFICATION

<b>FIN:</b> <sup>5</sup> SUMP-1	<b>Facility Name:</b> <sup>6</sup> Unit 1 Open Sump	<b>SCC:</b> <sup>7</sup> 5 0 3 0 0 7 1 0
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#### OPERATING SCHEDULE

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0800</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> %    Summer: <u>25</u> %    Fall: <u>25</u> %    Winter: <u>25</u> % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u>
	<b>Percent Max Capacity:</b> <sup>13</sup> <u>83</u> %

#### WASTEWATER COMPONENT PROFILE

**Unit Type**<sup>14</sup> (Profile) (Mark only *one* box below)

<input type="checkbox"/> Basin	<input type="checkbox"/> Open Sump	<input type="checkbox"/> Closed Sump	<input type="checkbox"/> Reactor	<input type="checkbox"/> Stripper
<input type="checkbox"/> Separator	<input checked="" type="checkbox"/> Clarifier	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Other Component: _____	

#### FACILITY COMMENTS

<sup>15</sup>


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## INSTRUCTIONS: Wastewater System Component Facility Information Form

Complete the **Wastewater Component Facility Information** form to add a specific component of a wastewater system to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of **the regulated entity**.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. *Example:* TREATMENTA
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. *Example:* SUMP-1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. *Example:* UNIT 1 OPEN SUMP
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—
  - Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).
  - Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.
  - Days/Week:** The number of days per week the facility is normally active; from 0 through 7.
  - Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Unit Type (Profile):** Indicate the wastewater unit type. Mark only *one* box. For “Other,” describe the wastewater component in the space provided.

**15. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.



**Facility Information**  
TCEQ Emissions Inventory Year 11

**SAMPLE FORM**

**Other Source**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>Plant ID:</b> <sup>4</sup> BLAST
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**FACILITY IDENTIFICATION**

<b>FIN:</b> <sup>5</sup> SANDBLAST1	<b>Facility Name:</b> <sup>6</sup> Sandblasting Area 1	<b>SCC:</b> <sup>7</sup> 3 0 9 0 0 2 0 2
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**OPERATING SCHEDULE**

<b>Facility Status</b> <sup>8</sup> (Circle <i>only</i> ONE): <input checked="" type="radio"/> Active <input type="radio"/> Idle <input type="radio"/> Permitted but not built	<b>Facility Status Effective Date:</b> <sup>9</sup> <u>1/1/06</u>	<b>Operating Schedule</b> <sup>10</sup> Start Time: <u>0600</u> <b>NOTE:</b> Start Time REQUIRED Hours/Day: <u>24</u> Days/Week: <u>7</u> Weeks/Year: <u>52</u>
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<b>Seasonal Operating Percentages</b> <sup>11</sup> Spring: <u>25</u> % Summer: <u>25</u> % Fall: <u>25</u> % Winter: <u>25</u> % ( <b>NOTE:</b> Spring % + Summer % + Fall % + Winter % <b>must equal</b> 100%)	<b>Annual Operating Hours:</b> <sup>12</sup> <u>8760</u> <b>Percent Max Capacity:</b> <sup>13</sup> <u>88</u> %
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**GENERATING GROUP**<sup>14</sup>

Other (describe): Sandblast area used for surface preparation

**FACILITY COMMENTS**<sup>15</sup>

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## INSTRUCTIONS: Other Source Facility Information Form

Complete the **Other Facility Information** form to add a facility that is not a combustion unit (including a flare), a VOC process facility, a loading facility, a cleaning facility, a coating or painting facility, a storage tank, a cooling tower, a wastewater facility, or a leaking component fugitive area.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Plant ID:** Choose a name that identifies a unique unit or process within the emissions inventory. The Plant ID is limited to 10 alphanumeric characters. This is an optional field. Example: BLAST
- 5. FIN (Facility Identification Number):** Assign a unique label that identifies the facility. The FIN is limited to 10 alphanumeric characters. The emissions inventory FIN *must* match the site's permit. Example: SANDBLAST1
- 6. Facility Name:** Label the FIN with a plain text name. The facility name is limited to 40 alphanumeric characters. Example: SANDBLASTING AREA 1
- 7. SCC (Source Classification Code):** Choose the eight-digit EPA-developed code that identifies the specific industrial process. The chosen SCC describes the FIN as accurately as possible.
- 8. Facility Status:** Circle the appropriate facility status. A facility should be listed as "Active" if it operated *at any time* during the year.
- 9. Facility Status Effective Date:** Indicate the date when the facility first became operational or permitted.
- 10. Operating Schedule:** The facility's normal operating schedule during the emissions inventory year. Use only whole numbers (no decimal places). The operating schedule includes—

**Start Time:** For facilities that operate less than 24 hours per day, the time the operation usually starts; based on a 24-hour clock (military time).

**Hours/Day:** The number of hours per day the facility is normally active; from 0 through 24.

**Days/Week:** The number of days per week the facility is normally active; from 0 through 7.

**Weeks/Year:** The number of weeks per year the facility is normally active; from 0 through 52.

**11. Seasonal Operating Percentages:** The percentage of annual facility operations that occurred during each “season.” For the emissions inventory, “spring” includes March through May; “summer” includes June through August; “fall” includes September through November; and “winter” includes January, February, and December of the same calendar year. Use only whole numbers that add up to 100.

**12. Annual Operating Hours:** The facility’s total annual operating hours. Use a whole number from 0 through 8,760.

**13. Percent Max Capacity:** Calculate the ratio of the facility’s actual operating capacity to the facility’s maximum capacity—

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

**14. Generating Group:** Detail the type of facility in the space provided.

**15. Facility Comments:** Describe the facility’s function, or give clarifying information related to facility activities or parameters. This field is limited to 100 alphanumeric characters.

## **Abatement Device Information Form**

# Abatement Device Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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## ABATEMENT DEVICE INFORMATION

<b>CIN:</b> <sup>5</sup> FLARE1	<b>Control Device Name:</b> <sup>6</sup> S-Series Flare	<b>CIN Effective Date:</b> <sup>7</sup> 1/1/05
<b>Primary Abatement Device:</b> <sup>8</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Abatement Code:</b> <sup>9</sup> 511	<b>Number of Units:</b> <sup>10</sup> 1
<b>Annual Operation</b> <sup>11</sup> 8760 hours	<b>Percent Time Offline</b> <sup>12</sup> 31 %	<b>Inspection and Maintenance Schedule</b> <sup>13</sup> (Select one) <input type="checkbox"/> Annually <input type="checkbox"/> Biannually <input type="checkbox"/> Continuously <input type="checkbox"/> Daily <input type="checkbox"/> Hourly <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input type="checkbox"/> Weekly <input type="checkbox"/> Other <input type="checkbox"/> None

## CONTROL EFFICIENCY<sup>14</sup> (Please check all contaminants controlled by this abatement device and enter the control efficiency in the space provided)

<input checked="" type="checkbox"/> Volatile Organic Compounds: <u>98</u> %	<input type="checkbox"/> Nitrogen Oxides: ____%	<input type="checkbox"/> Carbon Monoxide: ____%	<input type="checkbox"/> Sulfur Dioxide: ____%
<input type="checkbox"/> Inorganic Compounds: ____%	<input type="checkbox"/> Particulate Matter (PM): ____%	<input type="checkbox"/> PM <sub>10</sub> : ____%	<input checked="" type="checkbox"/> C <sub>1</sub> -C <sub>3</sub> compounds: <u>99</u> %
<input checked="" type="checkbox"/> C <sub>4+</sub> Compounds: <u>98</u> %	<input checked="" type="checkbox"/> Hydrogen Sulfide (H <sub>2</sub> S): <u>97</u> %	<input type="checkbox"/> Ammonia (NH <sub>3</sub> ): ____%	

## PATH(S) ABATED BY THIS DEVICE<sup>15</sup>

FIN	EPN	FIN	EPN
TANK1	FLARE1		
TANK2	FLARE1		
TANK3	FLARE1		
AMINE	FLARE1		

## INSTRUCTIONS: Abatement Device Information Form

Complete the **Abatement Device Information** form to add a control device to the emissions inventory. The form requests information necessary for quality assurance purposes.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Control Identification Number (CIN):** A unique label that identifies the abatement device. The CIN is limited to 10 alphanumeric characters. *Example:* FLARE1
- 6. Control Device Name:** Label the CIN with a plain text name. The control device name is limited to 40 alphanumeric characters. *Example:* S-SERIES FLARE
- 7. CIN Effective Date:** Indicate the date that the abatement device became operational.
- 8. Primary Abatement Device:** For paths with multiple abatement devices, designate whether the device is the primary abatement device. *Primary abatement device* is defined as the first control device (in sequence) for a specific source. Mark only *one* box.
- 9. Abatement Code:** Choose the numeric code that identifies specific abatement devices. A list of abatement codes appears in Appendix II.
- 10. Number of Units:** Specify the number of individual devices grouped together under this CIN. *Example:* If a series of five filters is represented by CIN: FILTER, enter “5.”
- 11. Annual Operation:** The device’s total annual operating hours. Use a whole number from 0 to 8,760.
- 12. Percent Time Offline (PTO):** Calculate the ratio of the device’s downtime to the annual operating time. Use a maximum of two decimal places.

$$PTO = \frac{\text{Hours Offline}}{\text{Annual Operating Hours}} \times 100$$

*Example:* FLARE1 operated on an emergency basis for a total of 1200 hours during the year. The flare was offline for 288 hours and malfunctioned for an additional 83 hours. The PTO for FLARE1 is:

$$PTO = \frac{288 + 83}{1200} \times 100 = 30.92$$

**13. Inspection and Maintenance Schedule:** Pick the device's inspection schedule. Mark only one box.

**14. Control Efficiency:** List the contaminants that are abated by the control device. Mark all that apply. Indicate the control efficiency claimed for each contaminant. Use a maximum of two decimal places.

*Example:* Per its permit, a flare reduces C<sub>1</sub>–C<sub>3</sub> compounds by 99 percent, and all compounds containing four or more carbons by 98 percent. Its overall destruction efficiency for VOC compounds is 98 percent. It also converts 97 percent of hydrogen sulfide to sulfur dioxide. This example is illustrated on the sample form as CIN:  
FLARE1.

**15. Path(s) Abated by This Device:** Indicate each FIN/EPN path that is controlled by this device. At least one path should be shown.

## **Emission Point Information Forms**

**Emission Point Information**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Flare**

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG66789X	<b>RN:</b> <sup>4</sup> RN123456789
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EMISSION POINT IDENTIFICATION					
<b>EPN:</b> <sup>5</sup> FLARE1		<b>Point Name:</b> <sup>6</sup> S-Series Flare			
GEOGRAPHICAL COORDINATES <i>Fill in <u>one</u> section below.</i>					
Latitude and Longitude <sup>7</sup> in NAD of 1983			OR	UTM Coordinates <sup>8</sup> in NAD of 1983	
Latitude ____ deg ____ min ____ sec	Longitude ____ deg ____ min ____ sec			Zone <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input checked="" type="checkbox"/> 15	North Meters <u>1756493</u>
FLARE INFORMATION					
Number of Pilots: <sup>9</sup> <u>1</u>			Average Flow Rate: <sup>10</sup> <u>0.4</u> Mscf / minute		
<b>Composition Determination:</b> <sup>11</sup> <input type="checkbox"/> Continuous Measurement <input type="checkbox"/> Engineering Estimate <input type="checkbox"/> One-time performance test <input checked="" type="checkbox"/> Periodic Testing					
<b>Flow Determination:</b> <sup>12</sup> <input checked="" type="checkbox"/> Continuous Measurement (by a flow meter at the flare header) <input type="checkbox"/> Engineering Estimate <input type="checkbox"/> One-time performance test					
Height: <sup>13</sup> <u>80</u> feet			Inside Tip Diameter: <sup>14</sup> <u>0.67</u> feet		
Low Heating Value: <sup>15</sup> <u>900</u> Btu/scf		Molecular Weight: <sup>16</sup> <u>22</u> lb/lb-mole		Temperature: <sup>17</sup> <u>1400</u> °F	

## INSTRUCTIONS: Flare Emission Point Information Form

Complete the **Flare Emission Point Information** form for each new flare-type EPN.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Emission Point Number (EPN):** A unique label that identifies the emission point. The EPN is limited to 10 alphanumeric characters. The emissions inventory EPN *must* match the site's permit. *Example:* FLARE1
- 6. Point Name:** Label the EPN with a plain text name. The point name is limited to 40 alphanumeric characters. *Example:* S-SERIES FLARE
- 7. The EPN's Latitude and Longitude,** in degrees, minutes, and seconds. Use the North American Datum of 1983 (NAD83) coordinates, in whole numbers.
- 8. UTM Coordinates:** The EPN's Universal Transverse Mercator (UTM) coordinates. Use the NAD83 coordinates, in whole numbers. Either lat/long or UTM coordinates may be entered (only one set of coordinates is required).
  - Zone:** Select whether the flare is located in UTM zone 13, 14, or 15. Mark only *one* box.
  - North Meters:** Enter the seven-digit north UTM coordinate.
  - East Meters:** Enter the six-digit east UTM coordinate.
- 9. Number of Pilots:** The number of pilots that service the flare.
- 10. Average Flow Rate:** The average volumetric flow rate of flared gas, in thousand standard cubic feet per minute, while routine process flow is sent to the flare. Do not include upset or emergency flow to the flare.
- 11. Composition Determination:** Choose how the composition of the flared gas stream is determined. Mark only *one* box.
- 12. Flow Determination:** Indicate how the volume of product sent to the flare is determined. Mark only *one* box.
- 13. Height:** The flare's elevation above ground level, in feet.
- 14. Inside Tip Diameter:** The inside diameter of the flare tip, in feet.

- 15. Low Heating Value:** The lower heating value of the flared gas, in British thermal units per standard cubic foot.
- 16. Molecular Weight:** Indicate the average molecular weight of flared gas, in pounds per pound-mole.
- 17. Temperature:** The temperature of the flame tip, in degrees Fahrenheit.



**Emission Point Information**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Fugitive**

<b>Company Name:<sup>1</sup></b> Johnson Gas Company	<b>Site Name:<sup>2</sup></b> Creek Compressor Station	<b>TCEQ Air Account Number:<sup>3</sup></b> HG6789X	<b>RN:<sup>4</sup></b> RN123456789
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**EMISSION POINT IDENTIFICATION****EPN:<sup>5</sup>** FUG1**Point Name:<sup>6</sup>** Fugitive Area Number 1**GEOGRAPHICAL COORDINATES** *Fill in one section below.*

Latitude and Longitude <sup>7</sup> in NAD of 1983		OR	UTM Coordinates <sup>8</sup> in NAD of 1983		
Latitude	Longitude		Zone	North Meters	East Meters
____ deg ____ min ____ sec	____ deg ____ min ____ sec		<input type="checkbox"/> 13 <input type="checkbox"/> 14 <input checked="" type="checkbox"/> 15	<u>1756493</u>	<u>347693</u>

**FUGITIVE INFORMATION**

Orientation: <sup>9</sup> <u>60</u> degrees ( <input checked="" type="checkbox"/> East or <input type="checkbox"/> West) of North	Height: <sup>10</sup> <u>10</u> feet	Length: <sup>11</sup> <u>100</u> feet	Width: <sup>12</sup> <u>100</u> feet
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**NOTES****Orientation** = the orientation of the fugitive area's long axis, measured from due north.**Height** = the fugitive area's height, in feet.**Length** = the fugitive area's length, in feet.**Width** = the fugitive area's width, in feet.

- For a trench or impoundment, enter "3" for the height.
- For marine vessels, this is probably the height of the vessel's hatch(es), vent, or of the transfer mechanism connection above water. Because the vessel will rise and fall as a result of loading or unloading, use an average height.

## INSTRUCTIONS: Fugitive Emission Point Information Form

Complete a **Fugitive Emission Point Information** form for each new fugitive-type EPN.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Emission Point Number (EPN):** A unique label that identifies the emission point. The EPN is limited to 10 alphanumeric characters. The emissions inventory EPN *must* match the site's permit. *Example:* FUG1
- 6. Point Name:** Label the EPN with a plain text name. The point name is limited to 40 alphanumeric characters. *Example:* FUGITIVE AREA NUMBER 1
- 7. The EPN's Latitude and Longitude,** in degrees, minutes, and seconds. Use the North American Datum of 1983 (NAD83) coordinates, in whole numbers.
- 8. UTM Coordinates:** The EPN's Universal Transverse Mercator (UTM) coordinates. Use the NAD83 coordinates, in whole numbers. Either lat/long or UTM coordinates may be entered (only one set of coordinates is required).
  - Zone:** Select whether the fugitive emission point is located in UTM zone 13, 14, or 15. Mark only *one* box.
  - North Meters:** Enter the seven-digit north UTM coordinate.
  - East Meters:** Enter the six-digit east UTM coordinate.
- 9. Orientation:** Specify the fugitive area's long axis direction, measured in degrees of rotation from true north. The orientation may be measured in degrees East of North or degrees West of North. In Figure 1 the orientation could be described as 60 degrees East of North or 120 degrees West of North.
- 10. Height:** The fugitive area's height, in feet. If the fugitive area is at or below ground level, as in the case of a trench or impoundment, enter "3."
- 11. Length:** The fugitive area's length, in feet.
- 12. Width:** The fugitive area's width, in feet.

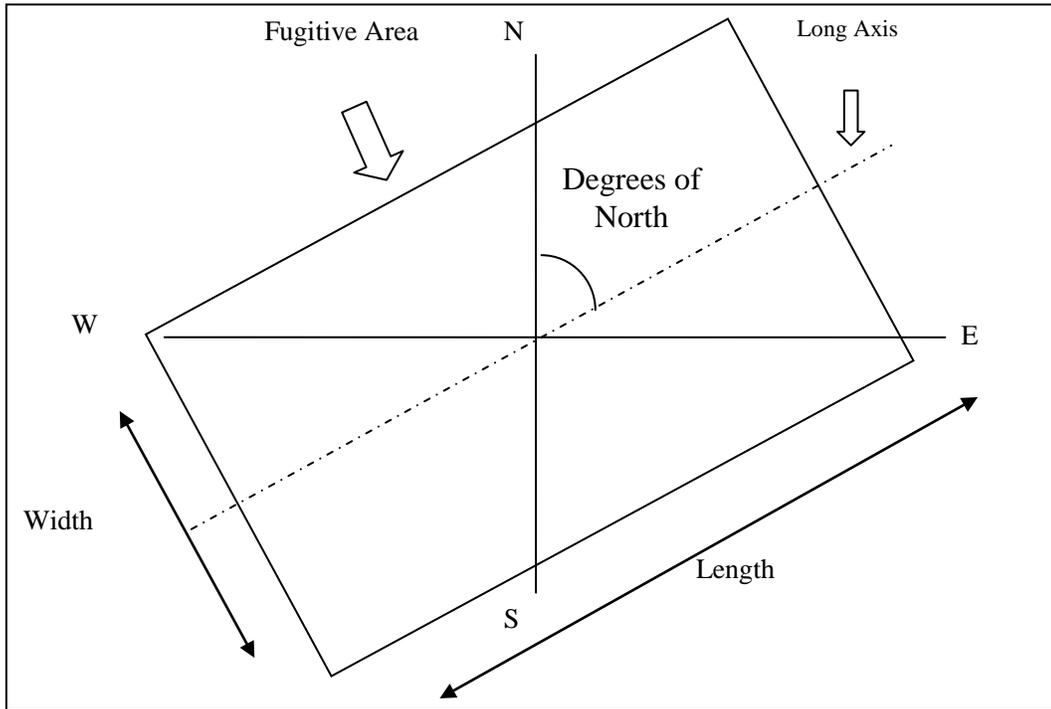


Figure 1. Orientation of Fugitive Area



# Emission Point Information

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

# Stack

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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## EMISSION POINT IDENTIFICATION

<b>EPN:</b> <sup>5</sup> TANK2	<b>Point Name:</b> <sup>6</sup> Oil Tank Number 2
--------------------------------	---

## GEOGRAPHICAL COORDINATES *Fill in one section below.*

Latitude and Longitude <sup>7</sup> in NAD of 1983		OR	UTM Coordinate <sup>8</sup> in NAD of 1983		
Latitude	Longitude		Zone	North Meters	East Meters
____ deg ____ min ____ sec	____ deg ____ min ____ sec		<input type="checkbox"/> 13 <input type="checkbox"/> 14 <input checked="" type="checkbox"/> 15	<u>1756493</u>	<u>347693</u>

## STACK INFORMATION

Diameter: <sup>9</sup> <u>3</u> feet	Height: <sup>10</sup> <u>15</u> feet	Horizontal Discharge? <sup>11</sup> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Moisture: <sup>12</sup> <u>0</u> %	Temperature: <sup>13</sup> <u>67.9</u> degrees Fahrenheit	Velocity: <sup>14</sup> <u>0.01</u> feet/second

## NOTES

Cooling Tower (Natural Draft or Mechanical Draft)	Tank with No Abatement Device
<b>Diameter</b> = diameter of tower top (natural draft); of fan (mechanical draft); or of one fan (multicell tower)	<b>Diameter</b> = 3 feet
<b>Height</b> = tower height	<b>Height</b> = tank height
<b>Velocity</b> = air exit velocity at tower top (natural draft), or velocity of the fan-propelled air under normal operating conditions (mechanical draft), or velocity of one fan (multicell tower)	<b>Temperature</b> = average ambient temperature at the site's location <i>(do NOT enter the word "ambient")</i>
<b>Temperature</b> = air temperature at tower top (if unknown, assume 10–15° warmer than ambient temperature)	<b>Velocity</b> = 0.01 feet/second
<b>Moisture</b> = NOT zero; generally 5–10%; you may wish to use a psychrometric chart	
<b>Horizontal Discharge?</b> = "no," except possibly for crossflow towers	

## INSTRUCTIONS: Stack Emission Point Information Form

Complete the **Stack Emission Point Information** form for each new stack-type EPN.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Emission Point Number (EPN):** A unique label that identifies the emission point. The EPN is limited to 10 alphanumeric characters. The emissions inventory EPN *must* match the site's permit. *Example:* TANK2
- 6. Point Name:** Label the EPN with a plain text name. The point name is limited to 40 alphanumeric characters. *Example:* OIL TANK NUMBER 2
- 7. The EPN's Latitude and Longitude,** in degrees, minutes, and seconds. Use the North American Datum of 1983 (NAD83) coordinates, in whole numbers.
- 8. UTM Coordinates:** The EPN's Universal Transverse Mercator (UTM) coordinates. Use the NAD83 coordinates, in whole numbers. Either lat/long or UTM coordinates may be entered (only one set of coordinates is required).
  - Zone:** Select whether the stack emission point is located in UTM zone 13, 14 or 15. Mark only *one* box.
  - North Meters:** Enter the seven-digit north UTM coordinate.
  - East Meters:** Enter the six-digit east UTM coordinate.
- 9. Height:** Specify the stack's height, in feet.
- 10. Diameter:** The stack's diameter, in feet.
- 11. Horizontal Discharge?:** Describe the stack's discharge direction. Choose "No" if the stack has an unobstructed vertical discharge; otherwise, choose "Yes." Mark only one box.
- 12. Moisture:** The moisture content of the exit-gas stream, as a percentage.
- 13. Temperature:** The exhaust exit temperature, in degrees Fahrenheit.
- 14. Velocity:** The exhaust exit velocity, in feet per second.

### 15. Notes for a Cooling Tower—

**Diameter:** For a natural draft tower, the diameter at the top of the tower. For a mechanical draft tower, the diameter of the fan. For a multi-celled mechanical draft tower, the average diameter of the fans, in feet.

**Height:** The height from ground level to the top of the tower, in feet.

**Velocity:** For a natural draft tower, the velocity of the air exiting the top of the tower. For a mechanical draft tower, the velocity of the fan-propelled air under normal operating conditions. For a multi-celled mechanical draft tower, the average velocity from the fans, in feet per second.

**Temperature:** The temperature of the air exiting the top of the tower, in degrees Fahrenheit. The temperature may be assumed to be 10 to 15 degrees higher than the ambient air temperature.

**Moisture:** The moisture contained in the air exiting the cooling tower, as a percentage. The moisture is generally between 5 and 10 percent. Note that a psychometric chart may be used to determine the amount of water in saturated air at a given temperature.

**Horizontal Discharge:** Cooling towers should not have horizontal discharge. One possible exception would be a crossflow tower.

### 16. Notes for a Tank not linked to an abatement device—

**Diameter:** Use the default value of 3 feet.

**Height:** The height of the tank, in feet.

**Temperature:** The site location's average annual ambient temperature, in degrees Fahrenheit. **Do not enter the word "ambient."**

**Velocity:** Use the default value of 0.01 feet per second.

## Path Emissions Form

# Path Emissions

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

Already exists in the STARS database<sup>1</sup>

FIN     EPN     CIN

<b>Company Name:</b> <sup>2</sup> Johnson Gas Company	<b>Site Name:</b> <sup>3</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>4</sup> HF6789X	<b>RN:</b> <sup>5</sup> RN123456789
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## CREATE A PATH

<b>FIN:</b> <sup>6</sup> ENGINE1	<b>EPN:</b> <sup>7</sup> STACK1A	<b>CIN(s):</b> <sup>8</sup>
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**Path Comment(s):**<sup>9</sup> Rich-burn 500 hp compressor

<b>Total Annual Aggregate Heat Input (Combustion Units Only):</b> <sup>10</sup> <u>420,000</u> MMBtu	<b>Path Effective Date:</b> <sup>11</sup> 1/1/2006
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## LIST NO<sub>x</sub> EMISSIONS FACTOR AND SOURCE FOR THIS PATH (if applicable)

<b>NO<sub>x</sub> Emissions Factor</b> <sup>12</sup> <u>0.336</u>	<b>Emissions Factor Units</b> <sup>13</sup> <u>lb/MMBtu</u>	<b>Factor Reference/Source</b> <sup>14</sup> <u>Vendor's Data</u>
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## REPORT EMISSIONS FROM THIS PATH

Contaminant Code <sup>15</sup>	Contaminant Name <sup>16</sup>	Annual Emissions <sup>17</sup> (tons/year)	Ozone Season Emissions <sup>18</sup> (pounds/day)	Determination Methodology <sup>19</sup>	SMSS <sup>20</sup> (tons/year)	Emissions Events (EE) <sup>21</sup> (tons/year)
10000	PM—unspeciated	0.3021	1.6416	A	0	0
20000	PM <sub>10</sub> —unspeciated	0.3021	1.6416	A	0	0
39999	PM <sub>2.5</sub> total	0.3021	1.6416	A	0	0
50001	VOC—unspeciated	6.3590	34.5546	A	0	0
51620	Acetaldehyde	0.2866	1.5574	A	0	0
51680	Formaldehyde	1.8102	9.8366	A	0	0
70400	Nitrogen Oxides	12.9884	70.5890	V	0.01	0.04
70510	Sulfur Dioxide	0.0502	0.2728	A	0	0
90300	Carbon Monoxide	16.0089	87.0051	V	0.01	0.04

## INSTRUCTIONS: Path Emissions Form

Complete the **Path Emissions** form to add a new path and report the path's emissions. Recall that a path consists of at least a FIN and an EPN; if emissions are abated, then the path also includes a CIN.

- 1. Already exists in the STARS database:** If the FIN, EPN or CIN of this path is already in the STARS database, please indicate by checking the appropriate box for all that apply.
- 2. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 3. Site Name:** The name of the regulated entity.
- 4. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 5. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 6. FIN:** Indicate the path's facility.
- 7. EPN:** Specify the path's emission point.
- 8. CIN(s):** Identify the path's abatement device(s), if applicable. List the primary abatement device first, if the path includes more than one abatement device.
- 9. Path Comments:** Supply any clarifying information related to the path.
- 10. Total Annual Aggregate Heat Input:** For **combustion units only**, the total heat value of all fuels that the unit combusted by the unit during the year, in million British thermal units.
- 11. Path Effective Date:** Indicate the date when the facility began emitting through this emission point.
- 12. NO<sub>x</sub> Emissions Factor:** If this path emitted NO<sub>x</sub> emissions, write the numerical value of the NO<sub>x</sub> emissions factor in the blank provided.
- 13. Emissions Factor Units:** The units associated with the NO<sub>x</sub> emissions factor, preferable in lb/MMBtu.
- 14. Factor Reference/Source:** Cite the reference or source where the NO<sub>x</sub> emissions factor originated. Reference or source examples include: stack-test data, CEMS data, manufacturer's data, and AP-42.

**For each contaminant associated with the path, use one line to enter the following information:**

- 15. Contaminant Code:** The five-digit code associated with the air contaminant. A list of contaminant codes is available in Appendix I.

- 16. Contaminant Name:** The air contaminant being reported.
- 17. Annual Emissions:** Total contaminant emission rate for the year, measured in tons per year. Use a maximum of four decimal places, and do not use scientific notation.
- 18. Ozone Season Emissions:** Average actual contaminant emission rate during the ozone season, in pounds per day. Recall that the ozone season is defined as the 153 days from May 1 through September 30. This information is mandatory for all regulated entities in El Paso County and for all those that are located east of the 100° Central Meridian. Ozone season rates are not calculated by the EAS database, and must be supplied by the company.
- 19. Determination Methodology:** The method used to determine the reported emissions. The available choices are: **A** (AP-42 and other EPA- or TCEQ-approved factors), **B** (material balance), **D** (continuous emissions monitoring systems, CEMS), **E** (estimation), **F** (predictive emissions monitoring systems, PEMS), **H** (highly reactive volatile organic compound [HRVOC] monitoring systems), **M** (measured data), **O** (other), **Q** (portable analyzer test data), **S** (scientific calculation), and **V** (vendor-supplied factors).
- 20. Scheduled Maintenance, Startup, and Shutdown Activities (SMSS):** Total contaminant emission rate from scheduled maintenance, startup, and shutdown activities, in tons per year.
- 21. Emissions Events (EE):** Total contaminant emission rate from emissions events, in tons per year.

## **Material Throughput Forms**

**Material Throughput**TCEQ Emissions Inventory Year 11**SAMPLE FORM****Combustion Units**

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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**MATERIAL DETAIL**

<b>FIN</b> <sup>5</sup>	<b>Fuel/Waste Name</b> <sup>6</sup>	<b>Quantity</b> <sup>7</sup>	<b>Units</b> <sup>8</sup>	<b>Heat Value</b> <sup>9</sup>	<b>% Ash</b> <sup>10</sup>	<b>% Sulfur</b> <sup>11</sup>	<b>Usage Start Date</b> <sup>12</sup>	<b>Usage End Date</b> <sup>13</sup>
GASBOILER	Natural Gas	3,426,610	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
	Fuel Oil Number 5	19,824	Gallons	141,582 Btu/gal	0	0.130	1/1/11	2/3/11
	Fuel Oil Number 5	29,736	Gallons	141,582 Btu/gal	0	0.130	11/17/11	12/31/11
COALBOILER	Coal	2,716,581	Tons	8415 Btu/lb	5.36	0.39	1/1/11	12/31/11
	Oil	673.55	Mgallons	140,117 Btu/gal	0	0.06	1/1/11	12/31/11
LIGBOILER	Lignite	2,340,260	Tons	1.327E+7 Btu/ton	15.4	0.7455	1/1/11	12/31/11
	Natural Gas	195.85	MMscf	1028 Btu/scf	0	0.0006	1/1/11	12/31/11
ENGINE1	Natural Gas	84.239	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
RBLR1	Natural Gas	38.840	MMscf	1006.47 Btu/scf	0	0.0006	1/1/11	12/31/11
FLARE1	Methane	23.785	MMscf	1012 Btu/scf	0	0.0006	1/1/11	12/31/11

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## INSTRUCTIONS: Material Throughput for Combustion Units Form

Use the **Material Throughput for Combustion Units** form to report fuel usage at all FINs that are combustion units. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. FIN:** Indicate the FIN for each combustion unit where fuel usage is being reported.
- 6. Fuel/Waste Name:** The type of fuel or waste burned.
- 7. Quantity:** The quantity of fuel or waste burned.
- 8. Units:** Specify the units for the quantity of fuel or waste burned.
- 9. Heat Value:** The lower heating value of the fuel or waste burned, in British thermal units.
- 10. % Ash:** For solid fuels, the concentration of ash produced by the fuel, as a percentage of total weight.
- 11. % Sulfur:** Express the concentration of sulfur in the fuel, as a percentage of total weight.
- 12. Usage Start Date:** The date when burning the fuel or waste began.
- 13. Usage End Date:** The date when burning the fuel or waste stopped.

# SAMPLE FORM

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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	FEED DATA			PRODUCT DATA		
FIN <sup>5</sup>	Feed Name <sup>6</sup>	Quantity <sup>7</sup>	Units <sup>8</sup>	Product Name <sup>9</sup>	Quantity <sup>10</sup>	Units <sup>11</sup>
MOLD1	Blue #031 Resin (34% by weight styrene)	15,933	Pounds			
MOLD1	Red #145 Resin (37% by weight styrene)	67,840	Pounds			
GELCOAT1	Blue #997 Gelcoat (32% by weight styrene, 8% by weight methyl methacrylate)	25,243	Pounds			
GELCOAT1	Red #890 Gelcoat (41% by weight styrene, 11% by weight methyl methacrylate)	89,570	Pounds			

## **INSTRUCTIONS: Material Throughput for Feed and Product Operations Form**

Use a **Material Throughput for Feed and Product Operations** form to report material usage at all FINs that are not combustion units; oilfield storage tanks; printing, painting, or degreasing facilities; storage or loading facilities; or wastewater facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. FIN:** Indicate the FIN for each feed or product operation where material throughput is being reported.
- 6. Feed Name:** The material used.
- 7. Quantity:** Report the quantity of material used.
- 8. Units:** Specify the units for the quantity of material used.
- 9. Product Name:** The material produced.
- 10. Quantity:** The quantity of material produced.
- 11. Units:** Designate the units for the material produced.



## INSTRUCTIONS: Material Throughput for Oil Field Storage Tanks Form

Use a **Material Throughput for Oil Field Storage Tanks** form to report the material throughput at all FINs that are oilfield storage tanks. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. FIN:** Indicate the FIN for each oilfield storage tank where material throughput is being reported.
- 6. Product Stored:** Characterize whether the stored material is oil or condensate. Condensate is a liquid hydrocarbon with an API gravity greater than 40° API at 60°F (and a specific gravity less than 0.8251).
- 7. Stock-Tank API Gravity:** The liquid’s API gravity, in degrees API. The API gravity is the weight per unit volume of hydrocarbon liquids as measured by a system recommended by the American Petroleum Institute (API):

$$API\ gravity = \frac{141.5}{Specific\ Gravity} \times 131.5$$

- 8. Last Stage Separator Pressure:** Indicate the pressure of the separator, in pounds per square inch gauge. This is the pressure of the final separator before the storage tank.
- 9. Annual Throughput:** Report the material’s annual throughput, in barrels of product per year.
- 10. VOC Fraction of Stock-Tank Gas:** The weight fraction of VOC in the gas, as a percentage.
- 11. Gas/Oil Ratio (GOR):** Calculate the gas/oil ratio of the hydrocarbon product, in standard cubic feet of gas per barrel of oil.

# SAMPLE FORM

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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MATERIAL DETAIL								
FIN <sup>5</sup>	Material Name <sup>6</sup>	Quantity <sup>7</sup>	Units <sup>8</sup>	Density <sup>9</sup> (pounds/gallon)	% Weight of Solvents <sup>10</sup>	% Weight of Solids <sup>11</sup>	Usage Start Date <sup>12</sup>	Usage End Date <sup>13</sup>
PAINTBTH16	Basecoat	676.38	Gallons	11.78	5.62	56.59	1/1/11	12/31/11
	Glaze	2030.39	Gallons	9.23	11.02	30.53	1/1/11	12/31/11
	Texture	197.81	Gallons	15.45	2.24	94.13	1/1/11	12/31/11
	Topcoat	46.08	Gallons	8.51	8.84	33.09	1/1/11	12/31/11
PRINTSTA3C	Ink	753.1	Gallons	7.84	13.94	38.73	1/1/11	12/31/11
SOLV2	Solvent	1346.91	Gallons	0.94	100	0	1/1/11	12/31/11

## INSTRUCTIONS: Material Throughput for Printing, Painting, and Degreasing Facilities Form

Use a **Material Throughput for Printing, Painting, and Degreasing Facilities** form to report material usage at all FINs that are printing, surface coating or degreasing facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

1. **Company Name:** The official name of the company responsible for submitting the emissions inventory.
2. **Site Name:** The name of the regulated entity.
3. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
4. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
5. **FIN:** Indicate the FIN for each printing, painting, or degreasing facility where material usage is being reported.
6. **Material Name:** The material used.
7. **Quantity:** Report the quantity of material used.
8. **Units:** Specify the units for the quantity of material used.
9. **Density:** The material's density, in pounds per gallon.
10. **% Weight of Solvents:** Express the concentration of solvents in the material, as a percentage of total weight.
11. **% Weight of Solids:** The concentration of solids in the material, as a percentage of total weight.
12. **Usage Start Date:** The date when material usage began.
13. **Usage End Date:** The date when material usage ended.

# SAMPLE FORM

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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MATERIAL DETAIL								
FIN <sup>5</sup>	Material Name <sup>6</sup>	Vapor Molecular Weight <sup>7</sup> (pounds/pound-mole)	Density <sup>8</sup> (pounds/gallon)	Monthly Throughput <sup>9</sup> (thousand gallons)	Total Vapor Pressure <sup>10</sup> (psia)	Average Annual Temperature <sup>11</sup> (degrees Fahrenheit)	Usage Start Date <sup>12</sup>	Usage End Date <sup>13</sup>
OILTANK213	Distillate Oil No 2	130.00	0.0002	536.64	0.0089	67.9125	1/1/11	12/31/11
TRUCKLOAD	Gasoline (RVP 6)	69	5.6	128.9733	4.3783	81.579	1/1/11	12/31/11
	Gasoline (RVP 7)	68	5.6	86.9786	5.2	81.579	1/1/11	12/31/11
	Gasoline (RVP 13)	62	5.6	79.8671	9.9	81.579	3/5/11	5/5/11
TANK108016	Acetone	58.08	6.628	70.1715	3.713	67.9125	1/1/11	8/17/11
	Ethyl Acrylate	100.11	7.75	53.8796	0.599	67.9125	8/27/11	12/31/11
ACETANK	Acetone	58.08	6.628	30.25	3.713	67.9125	1/1/11	6/30/11
	Acetone	58.08	6.628	70.1715	3.713	67.9125	7/1/11	8/15/11
	Acetone	58.08	6.628	30.25	3.713	67.9125	8/16/11	12/31/11

## **INSTRUCTIONS: Material Throughput for Storage and Loading Facilities Form**

Use a **Material Throughput for Storage and Loading Facilities** form to report material usage at all FINs that are storage or loading facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. FIN:** Indicate the FIN for each storage or loading facility where material throughput is being reported.
- 6. Material Name:** The material being stored or loaded.
- 7. Vapor Molecular Weight:** The material’s vapor molecular weight, in pounds per pound-mole.
- 8. Density:** Specify the material’s density, in pounds per gallon.
- 9. Monthly Throughput:** Report the material’s monthly throughput, in thousands of gallons. For operations experiencing seasonal variations or peak months, either average the annual throughput over 12 months or report the seasonal usage on separate lines. See ACETANK on the sample form as an example.
- 10. Total Vapor Pressure:** The liquid’s true vapor pressure at the average annual storage/loading temperature, in pounds per square inch absolute.
- 11. Average Annual Temperature:** The material’s average annual temperature, in degrees Fahrenheit.
- 12. Usage Start Date:** The date when storing or loading the material began.
- 13. Usage End Date:** The date when storing or loading the material stopped.

# SAMPLE FORM

You may use this form to report confidential data. If you do so, mark the form "CONFIDENTIAL."

<b>Company Name:</b> <sup>1</sup> Johnson Gas Company	<b>Site Name:</b> <sup>2</sup> Creek Compressor Station	<b>TCEQ Air Account Number:</b> <sup>3</sup> HG6789X	<b>RN:</b> <sup>4</sup> RN123456789
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MATERIAL DETAIL				
FIN <sup>5</sup>	Material Name <sup>6</sup>	Contaminant Code <sup>7</sup>	Inlet Concentration <sup>8</sup> (ppm)	Outlet Concentration <sup>9</sup> (ppm)
POND1	Toluene	52490	6.50	2.10
	Xylene	52510	8.59	4.18
	Benzene	52420	2.10	0.18
	Hexane	56660	1.20	0.006
	Crude Oil	59001	4.90	4.0
	Maleic Acid	51200	3.18	1.01
	Paraffins	59330	0.25	0.18
	Ethyl Benzene	52450	0.98	0.63
	VOC mixture	50001	18.0	12.03
	Butadiene	55150	0.76	0.021

## INSTRUCTIONS: Material Throughput for Wastewater Facilities Form

Use a **Material Throughput for Wastewater Facilities** form to report chemical usage or throughput at all FINs that are wastewater facilities. A single form may be used for multiple FINs. **This form may be marked “CONFIDENTIAL.”**

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. FIN:** Indicate the FIN for each wastewater facility where material throughput is being reported.
- 6. Material Name:** The material being treated.
- 7. Contaminant Code:** The material’s contaminant code. A list of contaminant codes is available in Appendix I.
- 8. Inlet Concentration:** Specify the influent material’s concentration, in parts per million. This is the material entering the wastewater facility.
- 9. Outlet Concentration:** The effluent material’s concentration, in parts per million. This is the material leaving the wastewater facility after treatment.



## Revision Request Form

## Revision Request

TCEQ Emissions Inventory Year 11

# SAMPLE FORM

Page 1 of 1 Revision Request pages

<b>Company Name:<sup>1</sup></b> Johnson Gas Company	<b>Site Name:<sup>2</sup></b> Creek Compressor Station	<b>TCEQ Air Account Number:<sup>3</sup></b> HG6789X	<b>RN:<sup>4</sup></b> RN123456789
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### REVISION REQUEST LIST

Facility Identification Number (FIN)		Emission Point Number (EPN)		Control Identification Number (CIN)	
Existing FIN <sup>5</sup>	Requested FIN <sup>6</sup>	Existing EPN <sup>7</sup>	Requested EPN <sup>8</sup>	Existing CIN <sup>9</sup>	Requested CIN <sup>10</sup>
01001	ENGINE 1	01001	STACK1	CC1	CATCONV1
01002	ENGINE2	01002	STACK2	CC2	CATCONV2

### REASON(S) FOR REVISION REQUEST(S)<sup>11</sup>

To bring FIN and EPN in line with the Title V permit.

## INSTRUCTIONS: Revision Request Form

Use the **Revision Request** form to request changes to FIN, EPN, and CIN designations. Please give the reason or reasons for each renaming requests at the bottom of the page. **Please note that the revision of existing FINs, EPNs, and CINs will only be done to match a permit.**

Please do not use this form to make structural changes to the emissions inventory.

- 1. Company Name:** The official name of the company responsible for submitting the emissions inventory.
- 2. Site Name:** The name of the regulated entity.
- 3. TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
- 4. Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, contact Central Registry at 512-239-5175 to complete a Core Data Form.
- 5. Existing FIN:** The FIN to be renamed.
- 6. Requested FIN:** Assign the revised FIN as it should appear on the EIQ.
- 7. Existing EPN:** Indicate the EPN to be renamed.
- 8. Requested EPN:** Select the revised EPN as it should appear on the EIQ.
- 9. Existing CIN:** Specify the CIN to be renamed.
- 10. Requested CIN:** Choose the revised CIN as it should appear on the EIQ.
- 11. Reason(s) for Revision Request(s):** The reason for each requested revision. Note that the EAS reserves the right to approve or disapprove any and all revision requests.



# BLANK FORMS

Here are blank EAS forms. Some general instructions—

**Account Information:** *For new emissions inventories only.*

**Contact Information:** *For adding or changing contact information.*

**Account Emissions:** Report total site-wide emissions; *for new emissions inventories only.*

**Structural Overview:** List all new paths; *for all sites adding or changing the emissions inventory structure.*

**Facility Information:** Submit information about a new facility; *for adding a new facility information number (FIN).* Different Facility Information forms are available for different facility types. Select the appropriate form for each new FIN from the following types:

**cleaning**

**coating or printing**

**cooling tower**

**flare (combustion unit— flare profile)**

**component fugitives;**

**loading**

**non-flare combustion unit**

**storage tank**

**VOC process**

**wastewater: wastewater system**

**wastewater: wastewater system component**

**other**

**Abatement Device Information:** Submit information about a new abatement device, distinguished by its control identification number (CIN); *for adding a new CIN to the emissions inventory structure.*

**Emission Point Information:** Submit information about a new emission point, tracked by its emission point number (EPN); *for adding a new EPN to the emissions inventory structure.* Different forms are available for different emission point types. Select the appropriate form for each new emission point, depending upon whether it is a:

**flare,**  
**fugitive area, or**  
**stack.**

**Path Emissions:** Create a new emissions path and report the new path's emissions; *for adding a new emissions path to the emissions inventory structure.*

**Material Throughput:** Report material throughput; *for all emissions inventories.* Different forms are available for these different facility types:

**combustion units;**  
**feed and product operations;**  
**oil field storage tanks;**  
**printing, painting, and degreasing facilities;**  
**storage and loading facilities; and**  
**wastewater facilities.**

**Revision Request:** Summarize requests for FIN, EPN, and CIN changes; the EAS reserves the right to approve or disapprove any such requests.

**Account Information**

TCEQ Emissions Inventory Year \_\_\_\_\_

**TCEQ Air Emissions Inventory**

<b>Company Name:</b>		<b>TCEQ Air Account Number:</b>		
<b>Company Role (Mark one):</b> <input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Both		<b>Customer Reference Number (CN):</b>	<b>Regulated Entity Reference Number (RN):</b>	
<b>SITE INFORMATION</b>				
<b>Status:</b> <input type="checkbox"/> New Point Source    OR <input type="checkbox"/> Merger If merger, provide the other site's TCEQ Air Account number:		<b>Point Source Type:</b> <input type="checkbox"/> Stationary <input type="checkbox"/> Portable		
<b>Site Name:</b>		<b>Location Description:</b>		
<b>Near City:</b>		<b>County:</b>	<b>ZIP Code:</b>	
<b>CENTROID GEOGRAPHICAL COORDINATES</b>				
<b>Latitude and Longitude in NAD of 1983</b>		<b>OR</b>	<b>UTM Coordinates in NAD of 1983</b>	
Latitude ____ deg ____ min ____ sec	Longitude ____ deg ____ min ____ sec		Zone <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15	East Meters _____
<b>STANDARD INDUSTRIAL CLASSIFICATION CODES (SIC)</b>				
<b>Primary SIC:</b> _____ <b>Secondary SIC:</b> _____ <b>Business Description:</b> _____				
<b>SITE STATUS AND OPERATING SCHEDULE</b>				
<b>Site Status (Mark only one box below)</b>		<b>Operating Schedule:</b>		
<input type="checkbox"/> Operational <input type="checkbox"/> Temporarily Shut Down <input type="checkbox"/> Permanently Shut Down <input type="checkbox"/> Planned <input type="checkbox"/> Seasonal <input type="checkbox"/> Under Construction <input type="checkbox"/> NESHAP Demolition <input type="checkbox"/> NESHAP Renovation <input type="checkbox"/> NESHAP Spraying		_____ hours/day    _____ days/week    _____ weeks/year		
		<b>Total Annual Operating Time:</b> _____ hours		
<b>Seasonal Operating Percentages (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)</b>				
Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____%				



**Contact Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

<b>Company Name:</b> _____	<b>Site Name:</b> _____	<b>TCEQ Air Account Number:</b> _____
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**EMISSIONS INVENTORY CONTACT (Do not list a consultant)**

<b>Name:</b> _____	<b>Title:</b> _____
<b>Mailing Address:</b> _____ _____	<b>Telephone Numbers and E-Mail Address</b>
City: _____ State: _____ ZIP Code + 4: _____ - _____	Business: _____ ext: _____
<b>Business Address:</b> _____ _____	Alternate Business: _____ ext: _____
City: _____ State: _____ ZIP Code + 4: _____ - _____	Fax: _____
	E-Mail Address: _____

**PLANT OR SITE CONTACT (Do not list a consultant)**

<b>Name:</b> _____	<b>Title:</b> _____
<b>Mailing Address:</b> _____ _____	<b>Telephone Numbers and E-Mail Address</b>
City: _____ State: _____ ZIP Code + 4: _____ - _____	Business: _____ ext: _____
<b>Business Address:</b> _____ _____	Alternate Business: _____ ext: _____
City: _____ State: _____ ZIP Code + 4: _____ - _____	Fax: _____
	E-Mail Address: _____

**Note:** If you need to update contact information for multiple sites, please complete page 2 of this form.







**Account Emissions**  
TCEQ Emissions Inventory Year \_\_\_\_

TCEQ Air Emissions Inventory

<b>Company Name:</b> _____	<b>Site Name:</b> _____	<b>TCEQ Air Account Number:</b> _____	<b>RN:</b> _____
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**REPORT TOTAL EMISSIONS**

CONTAMINANT	ANNUAL (tons/year)	OZONE (pounds/day)	SMSS (tons/year)	Emissions Events (EE) (tons/year)
PM <sub>10</sub>				
Lead				
Sulfur Dioxide				
Nitrogen Oxides				
Carbon Monoxide				
Volatile Organic Compounds				
PM <sub>2.5</sub>				

**SITE QUANTIFIABLE EVENT TOTALS**

Note: Report TOTAL NUMBER of each event type for the reported EIY Year per 30 TAC 101.201 and 101.211.

Reportable Emission Events: \_\_\_\_\_ Reportable Scheduled Maintenance, Startup, Shutdown Activities: \_\_\_\_\_

Non-Reportable Emission Events: \_\_\_\_\_ Non-Reportable Scheduled Maintenance, Startup, Shutdown Activities: \_\_\_\_\_

Excess Opacity Events: \_\_\_\_\_

**EMISSIONS EVENTS CERTIFICATION**

Pursuant to Texas Health and Safety Code 382.0215(f) I do hereby certify that no emissions events were experienced at this account during the Emissions Inventory reporting calendar year. (*Sign here if and only if you reported no emissions from emissions events.*)

Signature: \_\_\_\_\_

**SIGNATURE OF LEGALLY RESPONSIBLE PARTY**

I do hereby certify that information reported in this inventory is true, accurate, and fully represents the emissions that occurred during the Emissions Inventory reporting calendar year to the best of my knowledge.

Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_







**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Cleaning**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>											
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**OPERATING SCHEDULE**

<b>Facility Status (Circle only ONE):</b> Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: ____ Days/Week: ____ Weeks/Year: _____	
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<b>Seasonal Operating Percentages</b> Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____ <b>Percent Max Capacity:</b> _____ %
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**CLEANING PROCESS PROFILE**

**Process Type (Profile) (Mark only one box below)**

<input type="checkbox"/> Vapor Degreasing	<input type="checkbox"/> Dip Degreasing	<input type="checkbox"/> Barge Cleaning
<input type="checkbox"/> Railcar Cleaning	<input type="checkbox"/> Tank Truck Cleaning	<input type="checkbox"/> Other: _____

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Coating or Printing**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>									
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only</i> ONE): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b>
		Hours/Day: _____ Days/Week: _____ Weeks/Year: _____

<b>Seasonal Operating Percentages</b> Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____
	<b>Percent Max Capacity:</b> _____ %

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Cooling Tower**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b> <input type="checkbox"/> 38500101 (Mechanical Draft) <input type="checkbox"/> 38500102 (Natural Draft)
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only ONE</i> ): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: _____ Days/Week: _____ Weeks/Year: _____	
		<b>Seasonal Operating Percentages</b> Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % <b>must equal</b> 100%)	<b>Annual Operating Hours:</b> _____ <b>Percent Max Capacity:</b> _____%

**DESIGN INFORMATION**

**SAMPLING DATA**

<b>HRVOC Service?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Number of Cells:</b> _____
<b>Design Flow Rate:</b> _____ MMgal/day (maximum)	<b>Sampled for VOC?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Draft Design Type:</b> <input type="checkbox"/> Natural Draft <input type="checkbox"/> Mechanical Draft	<b>Sampling Schedule:</b> <input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly <input type="checkbox"/> Other: _____
	<b>Sampling Data Used to Calculate Emissions?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Combustion Unit: Flare Profile**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>									
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only</i> ONE): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: _____ Days/Week: _____ Weeks/Year: _____	
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<b>Seasonal Operating Percentages</b> Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____
	<b>Percent Max Capacity:</b> _____%

ASSIST TYPE	SERVICE TYPE	DESIGN CAPACITY
<input type="checkbox"/> Steam Assisted <input type="checkbox"/> Unassisted <input type="checkbox"/> Air Assisted	<input type="checkbox"/> Routine Process <input type="checkbox"/> Upset/Maintenance <input type="checkbox"/> Both Routine Process and Upset/Maintenance	_____ MMBtu/hr
		<b>HRVOC Service?</b>
		<input type="checkbox"/> No <input type="checkbox"/> Yes

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Component Fugitives**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>								
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only ONE</i> ): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: _____ Days/Week: _____ Weeks/Year: _____	
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<b>Seasonal Operating Percentages</b> Spring: _____% Summer: _____% Fall: _____% Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____ <b>Percent Max Capacity:</b> _____ %
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<b>EMISSIONS DETERMINATION METHODOLOGY</b> (Mark <i>one</i> . If more than one method is used, create separate FINs.) <input type="checkbox"/> Oil and gas factors <input type="checkbox"/> SOCM I average factors <input type="checkbox"/> SOCM I screening range factors (leak/no leak) <input type="checkbox"/> Refinery factors <input type="checkbox"/> SOCM I with ethylene factors <input type="checkbox"/> Correlation equations <input type="checkbox"/> Petroleum marketing terminal factors <input type="checkbox"/> SOCM I without ethylene factors <input type="checkbox"/> Other (explain): _____	<b>% VOC in Stream</b> Gas/vapor: _____ Light Liq: _____
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<b>LEAK DETECTION AND REPAIR (LDAR) PROGRAM</b> (If more than one LDAR program is used, create separate FINs.) <input type="checkbox"/> 28LAER <input type="checkbox"/> 28M <input type="checkbox"/> 28MID <input type="checkbox"/> 28RCT <input type="checkbox"/> 28VHP <input type="checkbox"/> AVO <input type="checkbox"/> HRVOC <input type="checkbox"/> Other: _____	<b>LDAR Present?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
--	--

**Monitoring equipment data:** Calibration Range (ppm): \_\_\_\_\_ min \_\_\_\_\_ max    Pegged component screening value: \_\_\_\_\_ ppm

**Connector monitoring program:**  28CNTA                       28CNTQ                       None

**This LDAR program is** (mark only *one box*):                       Voluntary                       Required by permit or rule

**FACILITY COMMENTS**

\_\_\_\_\_



**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Loading**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>												
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only ONE</i> ):  Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b>  _____	<b>Operating Schedule</b>  Start Time: _____ <b>NOTE: Start Time REQUIRED</b>
		Hours/Day: _____ Days/Week: _____ Weeks/Year: _____

<b>Seasonal Operating Percentages</b>  Spring: _____% Summer: _____% Fall: _____% Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % <b>must equal 100%</b> )	<b>Annual Operating Hours:</b> _____
	<b>Percent Max Capacity:</b> _____%

**LOADING PROFILE**

**Loading Type (Profile)** (Mark only *one* box below)

Railcar and Tank Truck   
  Railcar   
  Tank Truck   
  Marine   
  Other: \_\_\_\_\_

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Non-Flare Combustion Unit**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>									
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**OPERATING SCHEDULE**

<b>Facility Status (Circle ONE):</b> Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: ____ Days/Week: ____ Weeks/Year: _____
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<b>Seasonal Operating Percentages</b> Spring: _____ % Summer: _____ % Fall: _____ % Winter: _____ % (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____
	<b>Percent Max Capacity:</b> _____%

**COMBUSTION PROFILE AND DETAIL**

**Unit Type (Profile) (Mark only one box below)**

Heater     Boiler     Dryer     IC Engine: \_\_\_ -cycle, \_\_\_\_\_ -burn     Incinerator     Furnace  
 Kiln     Turbine     Oven     Fluid Catalytic Cracking Unit (FCCU)     Thermal Oxidizer  
 Boiler—EGU     IC Engine—EGU: \_\_\_ -cycle, \_\_\_\_\_ -burn     Turbine—EGU     Other: \_\_\_\_\_

**Firing Type (Mark one):**     Front     Opposed     Tangential     Internal     Other:

<b>Design Capacity:</b> _____ MMBtu/hr	<b>Engine Rating:</b> _____ hp	<b>Power-Generation Capacity:</b> _____ MW
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**FACILITY COMMENTS**

\_\_\_\_\_



**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Storage Tank**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>									
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only</i> ONE): Active   Idle   Permitted but not built	<b>Status Effective Date:</b> _____	<b>Operating Schedule</b>	Start Time: _____ <b>NOTE:</b> Start Time REQUIRED Hours/Day: _____ Days/Week: _____ Weeks/Year: _____
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<b>Seasonal Operating Percentages</b>	Spring: _____% Summer: _____% Fall: _____% Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____ <b>Percent Max Capacity:</b> _____%
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**TANK DETAIL**

**Tank Type** (Mark only *one* box below)

<input type="checkbox"/> Horizontal fixed roof	<input type="checkbox"/> Internal floating roof	<input type="checkbox"/> External floating roof: double deck, single seal	<input type="checkbox"/> Domed external floating roof: double deck
<input type="checkbox"/> Vertical fixed roof	<input type="checkbox"/> Pressure tank	<input type="checkbox"/> External floating roof: double deck, double seal	<input type="checkbox"/> Domed external floating roof: pontoon
<input type="checkbox"/> Underground tank	<input type="checkbox"/> External floating roof: pontoon, single seal	<input type="checkbox"/> External floating roof: pontoon, double seal	<input type="checkbox"/> Other: _____

<b>Tank Dimensions</b> Length (Horizontal Fixed Roof) or Height (for all other tanks): _____ ft Diameter: _____ ft Capacity: _____ M gallons	<b>Tank Location</b> <input type="checkbox"/> Above Ground <input type="checkbox"/> Below Ground	<b>Shell Characteristics</b> Color/Shade: _____ Paint Condition: _____ Construction: _____ Internal Shell Condition: _____	<b>Fill Method</b> (Mark <i>one</i> ) <input type="checkbox"/> Submerged <input type="checkbox"/> Splash <input type="checkbox"/> Bottom <b>Vapor Space Ht:</b> _____ ft
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<b>Roof Characteristics</b> Color/Shade: _____ Slope (if cone): _____ ft/ft Paint Condition: _____ Radius (if dome): _____ ft	<b>Hot Product Tanks</b> Is the tank heated? (VFR only) <input type="checkbox"/> Yes <input type="checkbox"/> No Stores hot products? (all tanks) <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Breather Vent Settings</b> Vacuum: _____ psig Pressure: _____ psig
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<b>Floating-Roof Tank Construction and Rim-Seal System</b> Primary Seal: _____ Secondary Seal: _____	<b>Non-Self-Supporting Internal Floating-Roof Tank Columns</b> Number of Columns: _____ Effective Column Diameter (if known): _____
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**Internal Floating-Roof Tank Deck Characteristics**

Deck Type: \_\_\_\_\_ Deck Fitting Category: \_\_\_\_\_ Construction: \_\_\_\_\_ Deck Seam: \_\_\_\_\_ Deck Seam Length: \_\_\_\_\_ feet

**FACILITY COMMENTS**



**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**VOC Process**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>												
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only</i> ONE): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: ____ Days/Week: ____ Weeks/Year: _____	
		<b>Seasonal Operating Percentages</b> Spring: ____%    Summer: ____%    Fall: ____%    Winter: ____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____ <b>Percent Max Capacity:</b> _____%

**PROCESS PROFILE**

**Unit Type (Profile)** (Mark only *one* box below)

<input type="checkbox"/> Analyzer	<input type="checkbox"/> Polypropylene unit	<input type="checkbox"/> Polyethylene unit	<input type="checkbox"/> Mixing vessel	<input type="checkbox"/> Reactor
<input type="checkbox"/> Glycol still	<input type="checkbox"/> Blowdown operations	<input type="checkbox"/> Flexi coker unit	<input type="checkbox"/> Delayed coker unit	<input type="checkbox"/> Other: _____

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Wastewater:  
Wastewater System**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>									
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**OPERATING SCHEDULE**

<b>Facility Status</b> (Circle <i>only</i> ONE): Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ Hours/Day: _____ Days/Week: _____ Weeks/Year: _____	<b>NOTE: Start Time REQUIRED</b>
<b>Seasonal Operating Percentages</b> Spring: _____% Summer: _____% Fall: _____% Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)	<b>Annual Operating Hours:</b> _____		<b>Percent Max Capacity:</b> _____%

**WASTEWATER DETAIL**

<b>Aeration:</b> <input type="checkbox"/> Diffused Air <input type="checkbox"/> Mechanical <input type="checkbox"/> None	<b>Flow Rate:</b> _____ MGD	<b>Biodegradation Mechanism:</b> <input type="checkbox"/> Biodegradation Activity <input type="checkbox"/> Activated Sludge Activity <input type="checkbox"/> None	
<b>Depth:</b> _____ ft	<b>Surface Area:</b> _____ ft <sup>2</sup>	<b>Flow Model:</b> <input type="checkbox"/> Flowthrough <input type="checkbox"/> Disposal	<b>Prestripping Performed?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Device Type:</b> <input type="checkbox"/> Surface Impoundment <input type="checkbox"/> Subsurface Impoundment <input type="checkbox"/> Other (specify): _____			

**COMPONENT COUNTS**

<b>Drains</b> (p-leg seal): _____	<b>Drains</b> (water pot seal): _____	<b>Drains</b> (no water seal): _____
<b>Covered lift stations:</b> _____ totaling _____ ft <sup>2</sup>	<b>Uncovered lift stations:</b> _____ totaling _____ ft <sup>2</sup>	<b>Dedicated sewer vents:</b> _____
<b>Covered junction boxes:</b> _____ totaling _____ ft <sup>2</sup>	<b>Uncovered junction boxes:</b> _____ totaling _____ ft <sup>2</sup>	<b>Manholes:</b> _____
<b>Covered trenches:</b> _____ totaling _____ linear feet	<b>Uncovered trenches:</b> _____ totaling _____ linear feet	<b>Weirs:</b> _____ totaling _____ ft <sup>2</sup>

**FACILITY COMMENTS**

\_\_\_\_\_

\_\_\_\_\_



**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Wastewater: Wastewater System Component**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>													
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**OPERATING SCHEDULE**

<b>Facility Status (Circle <i>only</i> ONE):</b> Active    Idle    Permitted but not built	<b>Facility Status Effective Date:</b> _____	<b>Operating Schedule</b> Start Time: _____ <b>NOTE: Start Time REQUIRED</b> Hours/Day: ____ Days/Week: ____ Weeks/Year: _____
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<b>Seasonal Operating Percentages</b> Spring: _____%    Summer: _____%    Fall: _____%    Winter: _____% (NOTE: Spring % + Summer % + Fall % + Winter % <b>must equal</b> 100%)	<b>Annual Operating Hours:</b> _____
	<b>Percent Max Capacity:</b> _____ %

**WASTEWATER COMPONENT PROFILE**

**Unit Type (Profile) (Mark only *one* box below)**

<input type="checkbox"/> Basin	<input type="checkbox"/> Open Sump	<input type="checkbox"/> Closed Sump	<input type="checkbox"/> Reactor	<input type="checkbox"/> Stripper
<input type="checkbox"/> Separator	<input type="checkbox"/> Clarifier	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Other Component: _____	

**FACILITY COMMENTS**

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**Facility Information**  
TCEQ Emissions Inventory Year \_\_\_\_\_

TCEQ Air Emissions Inventory

**Other Source**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>Plant ID:</b>
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**FACILITY IDENTIFICATION**

<b>FIN:</b>	<b>Facility Name:</b>	<b>SCC:</b>													
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**OPERATING SCHEDULE**

<b>Facility Status (Circle ONE):</b>			<b>Facility Status Effective Date:</b>	<b>Operating Schedule</b>		
Active	Idle	Permitted but not built	_____	Start Time: _____	<b>NOTE: Start Time REQUIRED</b>	
				Hours/Day: _____	Days/Week: _____	Weeks/Year: _____

<b>Seasonal Operating Percentages</b>	Spring: _____%	Summer: _____%	Fall: _____%	Winter: _____%	<b>Annual Operating Hours:</b> _____
	<b>(NOTE: Spring % + Summer % + Fall % + Winter % must equal 100%)</b>				<b>Percent Max Capacity:</b> _____%

**GENERATING GROUP**

Other (describe): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**FACILITY COMMENTS**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



## Abatement Device Information

TCEQ Emissions Inventory Year \_\_\_\_\_

## TCEQ Air Emissions Inventory

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>RN:</b>
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### ABATEMENT DEVICE INFORMATION

<b>CIN:</b>	<b>Control Device Name:</b>	<b>CIN Effective Date:</b>
<b>Primary Abatement Device:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Abatement Code:</b>
<b>Number of Units:</b>		
<b>Annual Operation</b> _____ hours	<b>Percent Time Offline</b> _____ %	<b>Inspection and Maintenance Schedule (Select one)</b> <input type="checkbox"/> Annual <input type="checkbox"/> Biannual <input type="checkbox"/> Continuously <input type="checkbox"/> Daily <input type="checkbox"/> Hourly <input type="checkbox"/> Monthly <input type="checkbox"/> Quarterly <input type="checkbox"/> Weekly <input type="checkbox"/> Other <input type="checkbox"/> None

### CONTROL EFFICIENCY (Please check all contaminants controlled by this abatement device and enter the control efficiency in the space provided)

<input type="checkbox"/> Volatile Organic Compounds: _____ %	<input type="checkbox"/> Nitrogen Oxides: _____ %	<input type="checkbox"/> Carbon Monoxide: _____ %	<input type="checkbox"/> Sulfur Dioxide: _____ %
<input type="checkbox"/> Inorganic Compounds: _____ %	<input type="checkbox"/> Particulate Matter (PM): _____ %	<input type="checkbox"/> PM <sub>10</sub> : _____ %	<input type="checkbox"/> C <sub>1</sub> -C <sub>3</sub> compounds: _____ %
<input type="checkbox"/> C <sub>4+</sub> Compounds: _____ %	<input type="checkbox"/> Hydrogen Sulfide (H <sub>2</sub> S): _____ %	<input type="checkbox"/> Ammonia (NH <sub>3</sub> ): _____ %	

### PATH(S) ABATED BY THIS DEVICE

FIN	EPN	FIN	EPN



**Emission Point Information**

TCEQ Emissions Inventory Year \_\_\_\_\_

## TCEQ Air Emissions Inventory

**Flare**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>RN:</b>
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**EMISSION POINT IDENTIFICATION**

<b>EPN:</b>	<b>Point Name:</b>
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**GEOGRAPHICAL COORDINATES** *Fill in one section below.*

Latitude and Longitude <i>in NAD of 1983</i>		OR	UTM Coordinates <i>in NAD of 1983</i>		
Latitude	Longitude		Zone	North Meters	East Meters
____ deg ____ min ____ sec	____ deg ____ min ____ sec		<input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15	_____	_____

**FLARE INFORMATION**

Number of Pilots: _____	Average Flow Rate: _____ Mscf/minute (1000 scf/minute)
<b>Composition Determination:</b> <input type="checkbox"/> Continuous Measurement <input type="checkbox"/> Engineering Estimate <input type="checkbox"/> One-time performance test <input type="checkbox"/> Periodic Testing	
<b>Flow Determination:</b> <input type="checkbox"/> Continuous Measurement (by a flow meter at the flare header) <input type="checkbox"/> Engineering Estimate <input type="checkbox"/> One-time performance test	
Height: _____ feet	Inside Tip Diameter: _____ feet
Low Heating Value: _____ Btu/scf	Molecular Weight: _____ lb/lb-mole
	Temperature: _____ °F



**Emission Point Information**

TCEQ Emissions Inventory Year \_\_\_\_\_

## TCEQ Air Emissions Inventory

**Fugitive**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>RN:</b>
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**EMISSION POINT IDENTIFICATION**

<b>EPN:</b>	<b>Point Name:</b>
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**GEOGRAPHICAL COORDINATES** *Fill in one section below.*

Latitude and Longitude <i>in NAD of 1983</i>		OR	UTM Coordinates <i>in NAD of 1983</i>		
Latitude	Longitude		Zone	North Meters	East Meters
____ deg ____ min ____ sec	____ deg ____ min ____ sec		<input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15	_____	_____

**FUGITIVE INFORMATION**

Orientation: ____ degrees ( <input type="checkbox"/> East or <input type="checkbox"/> West) of North	Height: ____ feet	Length: ____ feet	Width: ____ feet
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**NOTES**

**Orientation** = the orientation of the fugitive area's long axis, measured from due north.

**Height** = the fugitive area's height, in feet.

**Length** = the fugitive area's length, in feet.

**Width** = the fugitive area's width, in feet.

- For a trench or impoundment, enter "3" for the height.
- For marine vessels, this is probably the height of the vessel's hatch(es), vent, or of the transfer mechanism connection above water. Because the vessel will rise and fall as a result of loading or unloading, use an average height.



**Emission Point Information**

TCEQ Emissions Inventory Year \_\_\_\_\_

## TCEQ Air Emissions Inventory

**Stack**

<b>Company Name:</b>	<b>Site Name:</b>	<b>TCEQ Air Account Number:</b>	<b>RN:</b>
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**EMISSION POINT IDENTIFICATION**

<b>EPN:</b>	<b>Point Name:</b>
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**GEOGRAPHICAL COORDINATES** *Fill in one section below.*

Latitude and Longitude <i>in NAD of 1983</i>		OR	UTM Coordinates <i>in NAD of 1983</i>		
Latitude	Longitude		Zone	North Meters	East Meters
_____ deg _____ min _____ sec	_____ deg _____ min _____ sec		<input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15	_____	_____

**STACK INFORMATION**

Diameter: _____ feet	Height: _____ feet	Horizontal Discharge? <input type="checkbox"/> No <input type="checkbox"/> Yes
Moisture: _____%	Temperature: _____ degrees Fahrenheit	Velocity: _____ feet/second

**NOTES**

Cooling Tower (Natural Draft or Mechanical Draft)	Tank with No Abatement Device
<b>Diameter</b> = diameter of tower top (natural draft); of fan (mechanical draft); or of one fan (multicell tower)	<b>Diameter</b> = 3 feet
<b>Height</b> = tower height	<b>Height</b> = tank height
<b>Velocity</b> = air exit velocity at tower top (natural draft); or velocity of the fan-propelled air under normal operating conditions (mechanical draft); or velocity of one fan (multicell tower)	<b>Temperature</b> = average ambient temperature at the site's location <i>(do NOT enter the word "ambient")</i>
<b>Temperature</b> = air temperature at tower top (if unknown, assume 10–15° warmer than ambient temperature)	<b>Velocity</b> = 0.01 feet/second
<b>Moisture</b> = NOT zero; generally 5–10%; you may wish to use a psychrometric chart	
<b>Horizontal Discharge?</b> = "no," except possibly for crossflow towers	































**Revision Request**

TCEQ Emissions Inventory Year \_\_\_\_\_

**TCEQ Air Emissions Inventory**

Page \_\_\_\_ of \_\_\_\_ Revision Request pages

**Company Name:****Site Name:****TCEQ Air Account Number:****RN:****REVISION REQUEST LIST**

Facility Identification Number (FIN)		Emission Point Number (EPN)		Control Identification Number (CIN)	
Existing FIN	Requested FIN	Existing EPN	Requested EPN	Existing CIN	Requested CIN

**REASON(S) FOR REVISION REQUEST(S)**



## Appendix I—Contaminant Codes

The information provided in this contaminant code table is intended to assist in completing the emissions inventory. The information listed here does **not** supersede or replace any information in any state or federal law, rule, or regulation. No claims are made as to the accuracy or completeness of the table. In the case of any discrepancy between information herein and information in a state or federal law, rule, or regulation, the latter takes precedence.

This appendix contains the contaminant codes used to complete the Path Emissions form. The codes are listed alphabetically by chemical name.

**Contam Code:** The numeric code of the contaminant

**Contaminant Name:** The text name of the contaminant

**CAS No.:** The Chemical Abstract Service number

**HAP:** Specifies whether the contaminant is a hazardous air pollutant (see glossary)

**TOXIC:** Specifies whether the contaminant is a toxic chemical (see glossary)

**VOC:** Specifies whether the contaminant is a volatile organic compound (see glossary)



Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
11402	ABATE	3383968	Y	Y	
52463	ACENAPHTHYLENE	208968			
51620	ACETALDEHYDE	75070	Y	Y	Y
58231	ACETAMIDE	60355	Y	Y	Y
51121	ACETATE—U				Y
51120	ACETIC ACID	64197			Y
58202	ACETIC ACID AMIDE	60355	Y	Y	Y
11625	ACETIC ACID, 2,4-DICL-PHOX-	94757	Y	Y	
58420	ACETIC ANHYDRIDE	108247			Y
54020	ACETONE	67641			
54025	ACETONE CYANOHYDRIN	75865		Y	Y
58210	ACETONITRILE	75058	Y	Y	Y
59861	ACETOPHENONE	98862	Y	Y	Y
53403	ACETYAMINOFLUORENE, 2-	53963	Y	Y	Y
59799	ACETYLACETONE	123546			Y
59802	ACETYLAMINOFLUORENE, 2-	53963	Y	Y	Y
51820	ACETYLENE	74862			Y
55025	ACETYLENE DICHLORIDE	540590		Y	Y
53102	ACETYLENE TETRA BROMIDE	79276			Y
70170	ACID GAS—U				
51640	ACROLEIN	107028	Y	Y	Y
58379	ACRYLAMIDE	79061	Y	Y	Y
52650	ACRYLATES				Y
51140	ACRYLIC ACID	79107	Y	Y	Y
55260	ACRYLIC ACID—N-BUTYL ESTER	141322		Y	Y
15005	ACRYLIC POLYOL				
58213	ACRYLONITRILE	107131	Y	Y	Y
55380	ACRYLONITRILE MONOMER	107131	Y	Y	Y
51160	ADIPIC ACID	124049			Y
58215	ADIPONITRILE	111693			Y
51400	ALCOHOLS—U				Y
51600	ALDEHYDES—U				Y
11303	ALDRIN	309002		Y	
13010	ALFALFA				
52211	ALIPHATIC ALKYL AMINES				Y
52216	ALIPHATIC AMINE				Y
51900	ALIPHATIC CYCLIC HYDROCARBONS—U				Y
51895	ALIPHATIC NAPHTHA	8032324			Y
58998	ALIPHATIC PETROLEUM DISTILLATE	64742887			Y
52501	ALIPHATIC POLYISOCYANATE	3779636			Y
51810	ALKANES—U				Y
51750	ALKENES—U				Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
51464	ALKOXPOLYALKOXYETHANOL	69013189			Y
52615	ALKYL ACETATES				Y
52210	ALKYL AMINE—U				Y
52685	ALKYL PHENOL ETHOXYLATE	9016459			Y
11631	ALKYL PHTHALATES				
59010	ALKYLATE				Y
51800	ALKYNES—U				Y
51410	ALLYL ALCOHOL	107186		Y	Y
52802	ALLYL GLYCIDYL ETHER	106923		Y	Y
58626	ALLYL PROPYL DISULFIDE	2179591			Y
52410	ALPHA METHYL STYRENE	98839			Y
14012	ALUMINUM CHLORIDE—ALCL <sub>3</sub>	7446700			
14014	ALUMINUM HYDROXIDE—AL(OH) <sub>3</sub>	21645512			
14605	ALUMINUM (III) SILICATE(2:1)				
14016	ALUMINUM OXIDE—AL <sub>2</sub> O <sub>3</sub>	1344281		Y	
52248	AMINES, SECONDARY				Y
52200	AMINES—U				Y
58222	AMINO CAPRONITRILE, 6-	2432748			Y
59813	AMINO-2-METHYLANTHRAQUINONE, 1-	82280	Y	Y	Y
59830	AMINOANTHRAQUINONE, 2-	117793	Y	Y	Y
59806	AMINOAZOBENZENE, 4-	60093	Y	Y	Y
52230	AMINOBIIPHENYL, 4-	92671	Y	Y	Y
52256	AMINOETHYLETHANOLAMINE	111411			Y
52229	AMINOETHYLPIPERAZINE, N-	140318			Y
52217	AMINOMETHYLCYCLOPENTYL, 2-			Y	Y
58310	AMINOPYRIDINE, 2-	504290			Y
11118	AMMATE	7773060			
70050	AMMONIA	7664417		Y	
52726	AMMONIUM CARBONATES	506876			
11105	AMMONIUM CHLORIDE—NH <sub>4</sub> CL	12125029			
11100	AMMONIUM COMPOUNDS—U				
11104	AMMONIUM FLUORIDE	12125018			
70051	AMMONIUM HYDROXIDE	1336216		Y	
11110	AMMONIUM NITRATE—NH <sub>4</sub> NO <sub>3</sub>	6484522			
11115	AMMONIUM SULFATE—(NH <sub>4</sub> ) <sub>2</sub> SO	7783202			
14604	AMORPHOUS SILICA				
52620	AMYL ACETATE	628637		Y	Y
52627	AMYL ACETATE, SEC-	626380			Y
51420	AMYL ALCOHOL	71410			Y
58702	AMYL MERCAPTAN	110667		Y	Y
52882	AMYL METHYL ETHER, TERT-	994058			Y
51050	ANHYDRIDE—U				Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52220	ANILINE—U	62533	Y	Y	Y
58315	ANISIDINE (O- AND P- ISOMERS)	90040	Y	Y	Y
59839	ANISIDINE HYDROCHLORIDE, O-	134292		Y	Y
52231	ANISOLE	100663			Y
11905	ANTHRACENE	120127	Y	Y	
14023	ANTIMONY & COMPOUNDS		Y	Y	
14022	ANTIMONY TETRAHEDRITE		Y	Y	
70005	ANTIMONY TRIHYDRIDE (SBH)	7803523	Y		
14020	ANTIMONY—SB	7440360	Y	Y	
52000	ARENES				Y
70052	ARGON	7440371			
52265	AROMATIC PETROLEUM DISTILLATE (HEAVY)	64742945			Y
58999	AROMATIC PETROLEUM DISTILLATE (LIGHT)	64742956			Y
52400	AROMATICS—U				Y
14036	ARSENIC & COMPOUNDS		Y	Y	
14032	ARSENIC TRIOXIDE—AS <sub>2</sub> O <sub>3</sub>	1327533	Y	Y	
14030	ARSENIC—AS	7440382	Y	Y	
14035	ARSINE—ASH <sub>3</sub>	7784421	Y	Y	
14040	ASBESTOS—U	1332214	Y	Y	
59500	ASPHALT FUMES	8052424			Y
11305	AZINPHOS METHYL	86500			
14052	BARITE—BASO <sub>4</sub>	7727437			
14054	BARIUM CARBONATE—BACO <sub>3</sub>			Y	
14051	BARIUM COMPOUNDS			Y	
14056	BARIUM CYANIDE—BA(CN) <sub>2</sub>	542621	Y	Y	
14058	BARIUM HYDROXIDE—BA(OH)			Y	
14059	BARIUM SILICIDE			Y	
14050	BARIUM—BA	7440393		Y	
14018	BAUXITE	1318167			
11308	BAYGON	114261	Y	Y	
14060	BENTONITE	1302789			
51650	BENZALDEHYDE	100527			Y
59804	BENZAMIDE	55210		Y	Y
52420	BENZENE	71432	Y	Y	Y
52431	BENZENE SULFONIC ACID	98113			Y
52426	BENZENE SULFONYL CHLORIDE	98099			Y
52415	BENZENES, CHLORONATED			Y	Y
52240	BENZIDINE	92875	Y	Y	Y
58320	BENZO-A-PYRENE	50328	Y	Y	Y
51649	BENZOIC ACID	65850			Y
59820	BENZOIC TRICHLORIDE	98077	Y	Y	Y
54300	BENZOQUINONE, P-	106514	Y	Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52429	BENZOTHIAZOLETHIOL, 2-	149304	Y	Y	Y
53621	BENZOYL CHLORIDE	98884		Y	Y
53620	BENZOYL PEROXIDE	94360	Y	Y	Y
51405	BENZYL ALCOHOL	100516			Y
52414	BENZYL CHLORIDE	100447	Y	Y	Y
51406	BENZYLBENZENE	101815	Y		Y
14071	BERYLLIUM & COMPOUNDS		Y	Y	
14070	BERYLLIUM—BE	7440417	Y	Y	
51150	BICYCLO(2.2.1) HEPT-2-ENE, 5-EHTYLIDENE...	25038362			Y
52475	BIPHENYL	92524	Y	Y	Y
52865	BIS-(2-CHLOROETHYL) ETHER	111444	Y	Y	Y
58790	BIS-(2-CHLOROETHYL) SULF			Y	Y
52816	BIS-(2-CHLORO-I-METHYLETHYL) ETHER	108601		Y	Y
50555	BIS-(2-ETHYLHEXYL) ADIPATE	103231			Y
52730	BIS-(2-ETHYLHEXYL) PHTHALATE	117817	Y	Y	Y
52706	BIS-(2-ETHYLHEXYL) PHTHALATE (DEHP)	117817	Y	Y	Y
52860	BIS-(CHLOROMETHYL) ETHER	542881	Y	Y	Y
52215	BIS-HEXAMETHYLENETRIAMINE	143237		Y	Y
14087	BISMUTH TELLURIDE	1304821			
14088	BISMUTH TELLURIDE SE-DO	12010570			
14080	BISMUTH—BI	7440699			
52474	BISPHENOL A	80057	Y	Y	Y
12100	BLOOD				
12720	BLOOD MEAL				
12730	BONE MEAL				
14095	BORON OXIDE	1303862			
70032	BORON TRIBROMIDE	10294334			
70035	BORON TRICHLORIDE	10294345		Y	
70033	BORON TRIFLUORIDE	7637072		Y	
14090	BORON—B	7440428			
53800	BRANCH HYDROCARBONS (< C <sub>8</sub> )				Y
70105	BROMINE	7726956		Y	
53100	BROMINE COMPOUNDS—U				Y
70010	BROMINE PENTAFLUORIDE	7789302			
52442	BROMOCHLORODIFLUOROMETHANE	353593		Y	Y
53116	BROMOCHLOROMETHANE	74975			Y
53109	BROMOETHANE	74964			Y
55125	BROMOETHYLENE	593602	Y	Y	Y
53126	BROMOFORM	75252	Y	Y	Y
53110	BROMOPROPANE, P-	106945			
59205	BUNKERS				Y
55151	BUTADIENE, 1,2-	590192			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
55150	BUTADIENE, 1,3-	106990	Y	Y	Y
55155	BUTADIENE, 2-CHLORO-1,3-	9010984			Y
56725	BUTANE, N-	106978			Y
51480	BUTANEDIOL, 1,3-	107880			Y
51481	BUTANEDIOL, 2,3-	513859			Y
58705	BUTANETHIOL	109795			Y
55175	BUTENE	25167673			Y
55176	BUTENE, 1-	106989			Y
55476	BUTENE, 2-METHYL-1-	563462			Y
55475	BUTENE, 2-METHYL-2-	513359			Y
55477	BUTENE, 3-METHYL-1-	563451			Y
51752	BUTENE, CIS-2-	590181			Y
55177	BUTENE, CIS-2-	590181			Y
58214	BUTENENITRILE, 2-METHYL-3-	16529569			Y
51430	BUTOXYETHANOL, 2-	111762		Y	Y
52640	BUTYL ACETATE	123864			Y
52660	BUTYL ACRYLATE	141322		Y	Y
51440	BUTYL ALCOHOL, N-	71363		Y	Y
52708	BUTYL BENZYL PHTHALATE (BBP)	85687	Y		Y
52821	BUTYL CARBITOL	112345	Y		Y
52703	BUTYL CARBITOL ACETATE	124174	Y		Y
52842	BUTYL CELLOSOLVE	111762		Y	Y
52844	BUTYL CELLOSOLVE ACETATE	112072	Y	Y	Y
53300	BUTYL CHLORIDE, N-	109693			Y
52639	BUTYL ETHER, N-	142961			Y
52884	BUTYL ETHYL ETHER, TERT-	637923			Y
52670	BUTYL FORMATE, N-	592847			Y
52805	BUTYL GLYCIDAL ETHER, N-	2426086			Y
52672	BUTYL LACTATE, N-	138227			Y
52772	BUTYL METHACRYLATE	97881			Y
52212	BUTYLAMINE	109739		Y	Y
52738	BUTYLBENZENE (ALL ISOMERS)				Y
52735	BUTYLBENZENE, N-	104518			Y
58445	BUTYLENE OXIDE, 1,2-	106887	Y	Y	Y
55405	BUTYLENES—UNCLASSIFIED				Y
55310	BUTYLETHYLENE	592416			Y
51840	BUTYNE	107006			Y
51841	BUTYNEDIOL, 1,4-	110656			Y
51660	BUTYRALDEHYDE	123728		Y	Y
51135	BUTYRIC ACID	107926			Y
51137	BUTYROLACTONE, 4-	96480			Y
58217	BUTYRONITRILE	109740			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
15200	C.I. ACID BLUE 9, DIAMMONIUM SALT	2650182			
15205	C.I. ACID BLUE 9, DISODIUM SALT	38444459			
15206	C.I. ACID GREEN 3	4680788		Y	
15195	C.I. BASIC GREEN 4	569642		Y	
15197	C.I. BASIC RED 1	989388		Y	
15198	C.I. DIRECT BLACK 38	1937377		Y	
15199	C.I. DIRECT BLUE 6	2602462		Y	
15207	C.I. DIRECT BROWN 95	16071866		Y	
15201	C.I. DISPERSE YELLOW 3	2832408		Y	
15191	C.I. FOOD RED 15	81889		Y	
15204	C.I. FOOD RED 5	3761533		Y	
15202	C.I. SOLVENT ORANGE 7	3118976		Y	
15196	C.I. SOLVENT YELLOW 14	842079		Y	
15192	C.I. SOLVENT YELLOW 3	97563		Y	
15194	C.I. SOLVENT YELLOW 34	492808		Y	
15193	C.I. VAT YELLOW 4	128665		Y	
14115	CADMIUM & COMPOUNDS		Y	Y	
14114	CADMIUM NITRATE—CD(NO <sub>3</sub> )	10325947	Y	Y	
14112	CADMIUM OXIDE—CDO	1306190	Y	Y	
14110	CADMIUM—CD	7440439	Y	Y	
14120	CALCIUM	7440702			
14122	CALCIUM ALUMINATE SILICATE				
14121	CALCIUM ARSENATE	7778441	Y	Y	
14123	CALCIUM CARBONATE—CACO <sub>3</sub>	471341			
14125	CALCIUM CYANAMIDE	156627	Y	Y	
14124	CALCIUM FLUORIDE—CAF <sub>2</sub>	7789755			
14129	CALCIUM HYDROXIDE				
14126	CALCIUM OXIDE—CAO	1305788			
14127	CALCIUM SILICATE—CASIO <sub>3</sub>	1344952			
14128	CALCIUM SULFATE—CASO <sub>4</sub> -2H <sub>2</sub> O	7778189			
52473	CAMPHOR	464482			Y
58220	CAPROLACTAM	105602			Y
58221	CAPRONITRILE	628739			Y
58760	CAPTAN	133062	Y	Y	Y
11406	CARBARYL	63252	Y	Y	
52825	CARBITOL ACETATE	112152			Y
51452	CARBITOL CELLOSOLVE	111900	Y	Y	Y
52820	CARBITOL—U				Y
11408	CARBOFURAN	1563662		Y	
70225	CARBON DISULFIDE	75150	Y	Y	
14142	CARBON BLACK	1333864			
90100	CARBON DIOXIDE	124389			

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
58650	CARBON DISULFIDE	75150	Y	Y	Y
90300	CARBON MONOXIDE	630080			
53127	CARBON TETRABROMIDE	558134			Y
53210	CARBON TETRACHLORIDE	56235	Y	Y	Y
53211	CARBON TETRAFLUORIDE	75730			
53528	CARBON TRIFLUORIDE	75467			
14140	CARBON—C	7440440			
51060	CARBONIC ACIDS—U				
70226	CARBONYL SULFIDE	463581	Y	Y	
53103	CARBONYL BROMIDE	593953			Y
58775	CARBONYL SULFIDE	463581	Y	Y	Y
51903	CARENE, 3-	13466789			Y
59008	CASTOR OIL	8001794			Y
59315	CATALYTIC CRACKED CLARIFIED OIL	64741624			
59834	CATECHOL	120809	Y	Y	Y
59050	CCU FEED				Y
52846	CELLOSOLVE ACETATE	111159	Y	Y	Y
52848	CELLOSOLVE SOLVENT	110805	Y	Y	Y
52840	CELLOSOLVE—U		Y	Y	Y
13040	CELLULOSE				
13041	CELLULOSE ACETOBTYRATE				
51890	CELLULOSE NITRATE	9004700			Y
14149	CEMENT (PORTLAND)				
14805	CERIUM—CE				
14154	CESIUM HYDROXIDE	21351791			
14150	CESIUM—CS	7440462			
52504	CH <sub>2</sub> BIS(C <sub>6</sub> H <sub>4</sub> ) <sub>2</sub> ISOCYANATE	101688	Y	Y	Y
13162	CHAFF				
12315	CHEESE				
59838	CHLORAMBEN	133904	Y	Y	Y
70106	CHLORIDE	16887006			
11413	CHLORINATED CAMPHENE	8001352	Y	Y	
52451	CHLORINATED DIPHENYL OXIDES		Y		Y
53200	CHLORINATED HYDROCARBONS—U				Y
52468	CHLORINATED NAPHTHALENE		Y		Y
70110	CHLORINE	7782505	Y	Y	
70112	CHLORINE DIOXIDE	10049044		Y	
70114	CHLORINE TRIFLUORIDE	7790912			
52302	CHLORNAPHAZINE	494031	Y		Y
53298	CHLORO-1,1,1,2-TETRAFLUOROETHANE	2837890		Y	
53286	CHLORO-1,1,1,2-TETRAFLUOROETHANE, 2-	2837890		Y	
53287	CHLORO-1,1,2,2-TETRAFLUOROETHANE, 1-	354256		Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
53314	CHLORO-1-FLUOROETHANE, 1-	1615754			
53334	CHLORO-1-NITROPROPANE, 1-	600259			Y
53288	CHLORO-2,2,2-TRIFLUOROETHANE, 1-	75887		Y	Y
58422	CHLOROACETALDEHYDE	107200			Y
51124	CHLOROACETIC ACID	79118	Y	Y	Y
58430	CHLOROACETOPHENONE	532274	Y	Y	Y
54750	CHLOROACETOPHENONE, 2-	532274	Y	Y	Y
54150	CHLOROACETOPHENONE, A-	532274	Y	Y	Y
52222	CHLOROANILINE, 2-	95512			Y
52223	CHLOROANILINE, 4-	106478		Y	Y
52435	CHLOROBENZENALMALONONITRILE, O-	2698411			Y
52430	CHLOROBENZENE	108907	Y	Y	Y
59843	CHLOROBENZILATE	510156	Y	Y	Y
53392	CHLORODIFLUOROETHANE	75683		Y	
53475	CHLORODIFLUOROMETHANE	75456		Y	
52452	CHLORODIPHENYL 42%CL	53469219	Y		Y
52453	CHLORODIPHENYL 54%CL	11097691	Y		Y
52445	CHLOROETHANE	75003	Y	Y	Y
51462	CHLOROETHANOL, 2-	107073			Y
53398	CHLOROFLUOROETHANE				Y
53312	CHLOROFLUOROMETHANE	593704			
53220	CHLOROFORM	67663	Y	Y	Y
53333	CHLOROHYDRIN	96242			Y
52870	CHLOROMETHYL METHYL ETHER	107302	Y	Y	Y
51540	CHLOROPHENOL, 2-	95578			Y
51541	CHLOROPHENOL, 3-	108430			Y
51542	CHLOROPHENOL, 4-	106489			Y
11481	CHLOROPHENOLS—OTHER	95578		Y	
58922	CHLOROPICRIN	76062		Y	Y
53321	CHLOROPRENE	126998	Y	Y	Y
53329	CHLOROPROPANE, 2-	75296			Y
55100	CHLOROPROPENE, 3-	107051	Y	Y	Y
58325	CHLOROPYRIDINE, 2-	109091			Y
11314	CHLOROPYRIFOS	2921882			
52481	CHLOROSTYRENE, O-	2039874		Y	Y
58390	CHLOROTHALONIL	1897456		Y	Y
52494	CHLOROTOLUENE, A-	100447	Y	Y	Y
52491	CHLOROTOLUENE, O-	95498			Y
53470	CHLOROTRIFLUOROMETHANE	75729		Y	Y
14161	CHROMATES INSOLUBLE PARTICLES	20736645	Y	Y	
14165	CHROME—HEXAVALENT	1333820	Y	Y	
11155	CHROMIC ACID	7738945	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
14164	CHROMIUM & COMPOUNDS		Y	Y	
14162	CHROMIUM OXIDE—CRO	1308389	Y	Y	
14160	CHROMIUM—CR	7440473	Y	Y	
14163	CHROMIUM SOLUBLE SALTS	7440473	Y	Y	
51126	CITRACONIC ACID	498237			Y
51125	CITRIC ACID	77929			Y
13050	CITRUS PEELS				
11315	CLOPIDOL	2971906			
14144	COAL				
59700	COAL—ORGANICS—U				Y
14171	COBALT & COMPOUNDS		Y	Y	
14170	COBALT—CO	7440484	Y	Y	
13060	COFFEE				
14146	COKE				
14147	COKE OVEN EMISSIONS		Y		
59070	COKER FEED				Y
13070	COMPOSTED MATERIAL				
59090	CONDENSATE				Y
11150	CONDENSED INORGANIC ACIDS—U				
11200	CONDENSED ORGANICS—U				
11688	CONTAM WTH TCDD (2,4,5-T)				
14193	COPPER (FUME)			Y	
14194	COPPER COMPOUNDS			Y	
14190	COPPER—CU	7440508		Y	
13092	COTTON HULLS				
13082	COTTON LINT				
13090	COTTONSEED				
13094	COTTONSEED LINT				
13080	COTTON—U				
11618	CRAG HERBICIDE				
51537	CREOSOL (ALL ISOMERS)	1319773		Y	Y
51538	CREOSOTE	8021394		Y	Y
59833	CRESIDINE, P-	120718		Y	Y
51535	CRESOL	1319773	Y	Y	Y
51539	CRESOL, M-	108394	Y	Y	Y
51534	CRESOL, O-	95487	Y	Y	Y
51522	CRESOL, P-	106445	Y	Y	Y
51670	CROTONALDEHYDE	123739			Y
59001	CRUDE OIL				Y
14222	CRYOLITE	15096523			
52440	CUMENE	98828	Y	Y	Y
53625	CUMENE HYDROPEROXIDE	80159		Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52214	CUPFERRON, BENZENEAMINE	135206		Y	Y
11060	CURENE 442	101144	Y	Y	
58241	CYANIDE & COMPOUNDS		Y	Y	Y
11225	CYANIDES (SOLID)—U	57125	Y	Y	
71005	CYANOGEN—C <sub>2</sub> N <sub>2</sub>	460195			
58223	CYANURIC CHLORIDE	108770			Y
56002	CYCLOBUTANE	287230			Y
52244	CYCLO—C <sub>3</sub> H <sub>6</sub> N <sub>6</sub> O <sub>6</sub>	121824			Y
56140	CYCLODODECANE	294622		Y	Y
51458	CYCLODODECANOL	1724396		Y	Y
54012	CYCLODODECANONE	830137		Y	Y
55540	CYCLODODECATRIENE	27070593			Y
56050	CYCLOHEXANE	110827		Y	Y
51450	CYCLOHEXANOL	108930		Y	Y
54040	CYCLOHEXANONE	108941			Y
54057	CYCLOHEXYL-2-PYRROLIDONE	6837247			Y
52243	CYCLOHEXYLAMINE	108918			Y
55228	CYCLOOCTADIENE	29965977			Y
55220	CYCLOPENTADIENE	542927			Y
56100	CYCLOPENTANE	287923			Y
51453	CYCLOPENTANOL	96413			Y
54041	CYCLOPENTANONE	120923			Y
56105	CYCLOPENTENE	142290			Y
56075	CYCLOPROPANE	75194			Y
52001	CYMENE, P-	99876			Y
12300	DAIRY PRODUCTS—U				
11418	DASANIT	115902			
15203	DDE	72559	Y	Y	
11420	DDT	50293	Y		
11422	DDVP	62737	Y	Y	
58555	DECABROMODIPHENYL OXIDE	1163195	Y	Y	Y
56680	DECANE	124185			Y
70031	DECARBORANE—BH <sub>3</sub>				
55003	DECENE, 1-	872059			Y
55001	DECYCLENE				Y
51456	DECYL ALCOHOL	112301			Y
11424	DEMETON	8065483			
52775	DI-(2-ETHYLHEXYL)PHTHALATE (DEHP)	117817	Y	Y	Y
51415	DIACETONE ALCOHOL	123422			Y
11426	DIACETONE ALCOHOL	123422			
51830	DIACETYLENE	460128			
59859	DIALATE	2303164		Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
59865	DIAMINOANISOLE SULFATE, 2,4-	39156417		Y	Y
59845	DIAMINOANISOLE, 2,4-	615054		Y	Y
52365	DIAMINOCYCLOHEXANE, 1,3-	3385215			Y
59826	DIAMINODIPHENYL ETHER, 4,4-	101804	Y	Y	Y
52245	DIAMINOHEXANE, 1,6-	124094			Y
52370	DIAMINOTOLUENE (MIXED ISOMERS)	25376458		Y	Y
52360	DIAMINOXYLENE, M-	1477550			Y
14203	DIATOMACEOUS EARTH	61790532			
14200	DIATOMITE	61790532			
11419	DIAZINON	333415		Y	
58226	DIAZOMETHANE	334883	Y	Y	Y
51370	DIBASIC ACIDS			Y	Y
58560	DIBENZOFURAN	132649	Y	Y	Y
70055	DIBORANE	19287457			
11428	DIBROM	300765		Y	
53336	DIBROMO-1,2-CHLOROPROPANE, 3-	96128	Y	Y	Y
11318	DIBROMO-3-CHLOROPROPANE, 1,2-	96128	Y	Y	
58703	DIBROMOTETRAFLUOROETHANE	124732		Y	Y
52850	DIBUTYL CELLOSOLVE	112481	Y	Y	Y
58825	DIBUTYL PHOSPHATE	107664			Y
58828	DIBUTYL PHOSPHITE	1809194			Y
52710	DIBUTYL PHTHALATE	84742	Y	Y	Y
52249	DIBUTYLAMINE	111922		Y	Y
52246	DIBUTYLAMINOETHANOL, 2-N-	102818			Y
53293	DICHLORO-1,1,1-TRIFLUOROETHANE, 2,2-	306832		Y	
53313	DICHLORO-1,1,2-TRIFLUOROETHANE, 1,2-	354234		Y	
51572	DICHLORO-1,3-PROPANOL, 3-	96231			Y
53010	DICHLORO-1-FLUOROETHANE, 1,1-	1717006		Y	
53393	DICHLORO-1-FLUOROETHANE, 1,1-	1717006		Y	Y
53272	DICHLORO-2,1-NITROETHANE, 1-				Y
53209	DICHLOROACETYLENE	7572294			Y
52424	DICHLOROBENZENE (MIXED ISOMERS)	25321226		Y	Y
52422	DICHLOROBENZENE, M-	541731		Y	Y
52421	DICHLOROBENZENE, O-	95501		Y	Y
52423	DICHLOROBENZENE, P-	106467	Y	Y	Y
52241	DICHLOROBENZIDINE	91941	Y	Y	Y
53015	DICHLOROBROMOMETHANE	75274		Y	Y
53302	DICHLOROBUTANE, 1,2-	616217			Y
53303	DICHLOROBUTANE, 2,3-	7581977			Y
53472	DICHLORODIFLUOROMETHANE	75718		Y	
53230	DICHLOROETHANE, 1,1-	75343	Y	Y	Y
53270	DICHLOROETHANE, 1,2-	107062	Y	Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52883	DICHLOROETHYL ETHER	111444	Y	Y	Y
52885	DICHLOROETHYLENE, 1,1-	75354	Y	Y	Y
52886	DICHLOROETHYLENE, TRANS- 1,2-	156605			Y
53474	DICHLOROMONOFLUOROMETHA	75434		Y	Y
53401	DICHLOROOCCTAFLUOROBUTANE	355204			Y
51543	DICHLOROPHENOL, 2,4-	120832		Y	Y
51544	DICHLOROPHENOL, 2,6-	87650			Y
53331	DICHLOROPROPANE, 1,1-	78999			Y
53337	DICHLOROPROPANE, 1,2-	78875	Y	Y	Y
53332	DICHLOROPROPANE, 1,3-	142289			Y
53322	DICHLOROPROPENE, 1,3-	542756	Y	Y	Y
52871	DICHLOROPROPENE, 2,3-	78886		Y	Y
55200	DICHLOROPROPYLENE	26952238			Y
53325	DICHLOROPROPYLENE, 1,3-	542756	Y	Y	Y
70001	DICHLOROSILANE	4109960			
53525	DICHLOROTETRAFLUOROETHA	76142		Y	
53284	DICHLOROTETRAFLUOROETHANE, 1,1-	374072			Y
59829	DICOFOL	115322	Y	Y	Y
11320	DICOUMAROL	66762	Y		
55225	DICYCLOPENTADIENE	77736		Y	Y
70382	DICYCLOPENTADIENYL IRON	102545			
11430	DIELDRIN	60571			
59854	DIEPOXYBUTANE	1464535		Y	Y
59150	DIESEL				Y
52252	DIETHANOLAMINE	111422	Y	Y	Y
59835	DIETHYL ANILINE, N,N-	91667	Y	Y	Y
52433	DIETHYL BENZENE	25340174			Y
51185	DIETHYL CARBAMIC ACID				Y
52795	DIETHYL CARBONATE	105588			Y
58797	DIETHYL DISULFIDE	110816			Y
52880	DIETHYL ETHER	60297			Y
54045	DIETHYL KETONE	96220			Y
52715	DIETHYL PHTHALATE	84662			Y
58860	DIETHYL SULFATE	64675	Y	Y	Y
52250	DIETHYLAMINE	109897			Y
52251	DIETHYLAMINOETHANOL	100378			Y
52233	DIETHYLANILINE, 2,6-	579668			
51473	DIETHYLENE GLYCOL	111466			Y
52859	DIETHYLENE GLYCOL ALKYL		Y	Y	Y
52729	DIETHYLENE GLYCOL BIS (ALLYL CARB...	142223			Y
51753	DIETHYLENE GLYCOL CHLOROFORMATE	106752		Y	Y
52253	DIETHYLENE TRIAMINE	111400			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
53526	DIFLUORODIBROMOMETHANE	75616			Y
53294	DIFLUOROETHANE	75376			
53301	DIFLUOROMETHANE	75105			
53316	DIFLUOROMETHOXYMETHYL- 1,1,1,2,3,3...				
52807	DIGLYCIDYL ETHER	2238075			Y
52281	DIGLYCOLAMINE	929066			Y
51551	DIHYDROXYBENZENE, 1,2-	120809	Y	Y	Y
51552	DIHYDROXYBENZENE, 1,3-	108463			Y
51553	DIHYDROXYBENZENE, 1,4-	123319	Y	Y	Y
54046	DIISOBUTYL KETONE	108838			Y
52714	DIISOBUTYL PHTHALATE	84695			Y
56615	DIISOBUTYLENE	107391			Y
52709	DIISONONYL PHTHALATE	28553120			Y
52228	DIISOPROPANOLAMINE	110974			Y
52255	DIISOPROPYLAMINE	108189			Y
52275	DIISOPROPYLBENZENE (ALL ISOMERS)	25321099			Y
52276	DIISOPROPYLBENZENE, O-	577559			Y
51754	DIKETENE	674828			Y
59831	DIMETHOXYBENZIDINE, 3,3-	119904	Y	Y	Y
52930	DIMETHOXYMETHANE	109875			Y
52935	DIMETHOXYPROPANE, 2,2-	77769			Y
59235	DIMETHOXYPROPANE, 2,2-	77769			Y
58224	DIMETHYL ACETAMIDE	127195			Y
56526	DIMETHYL BUTANE, 2,2-	75832			Y
52853	DIMETHYL CELLOSOLVE	110714	Y	Y	Y
52879	DIMETHYL ETHER	115106			Y
58251	DIMETHYL HYDRAZINE, 1,1-	57147	Y	Y	Y
52781	DIMETHYL MALEATE	624486			Y
58227	DIMETHYL NITROSAMINE	62759	Y	Y	Y
56608	DIMETHYL PENTANE, 2,4-	108087			Y
52782	DIMETHYL PHTHALATE	131113	Y	Y	Y
58870	DIMETHYL SULFATE	77781	Y	Y	Y
58799	DIMETHYL SULFIDE	75183			Y
52362	DIMETHYL-1-DODECANAMINE, N,N-	112185			Y
54024	DIMETHYL-2-HEPTANONE, 4,6-	19549805			Y
51487	DIMETHYL-4-HEPTANOL, 2,6-	108827			Y
54023	DIMETHYL-4-HEPTANONE, 2,6-	108838			Y
58229	DIMETHYLACETOACETAMIDE, N,N-	2044646			Y
52260	DIMETHYLAMINE	124403		Y	Y
52262	DIMETHYLAMINOAZOBENZENE, 4-	60117	Y	Y	Y
52263	DIMETHYLAMINO BENZENE	121697	Y	Y	Y
51459	DIMETHYLAMINOETHANOL	108010			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52225	DIMETHYLANILINE	121697	Y	Y	Y
52455	DIMETHYLBENZANTHRACENE	57976	Y	Y	Y
59832	DIMETHYLBENZIDINE, 3,3-	119937	Y	Y	Y
56524	DIMETHYLBUTANE, 2,3-	79298			Y
52645	DIMETHYLBUTYLACETATE, 1,3-	108849			Y
58228	DIMETHYLCARBAMOYL CHLORIDE	79447	Y	Y	Y
56753	DIMETHYLCYCLOPENTANE	28729524			Y
58675	DIMETHYLDISULFIDE	624920			Y
52207	DIMETHYLETHYLAMINE	598561			Y
58225	DIMETHYLFORMAMIDE	68122	Y	Y	Y
56525	DIMETHYLHEPTANE	30498669			Y
51275	DIMETHYLISOPROPANOLAMINE	108167			Y
52208	DIMETHYLISOPROPYLAMINE	996350			
51555	DIMETHYLPHENOL, 2,4-	105679		Y	Y
52783	DIMETHYL-P-PHTHALATE	120616			Y
52711	DI-N-BUTYL PHTHALATE	84742	Y	Y	Y
58216	DINITRILES			Y	Y
52456	DINITROBENZENE (ALL ISOMERS)	25154545		Y	Y
52447	DINITROBENZENE, M-	99650		Y	Y
52448	DINITROBENZENE, O-	528290		Y	Y
52449	DINITROBENZENE, P-	100254		Y	Y
11910	DINITROCRESOL (ALL ISOMERS)				
11912	DINITRO-O-CRESOL, 4,6-	534521	Y	Y	
51548	DINITROPHENOL, 2,4-	51285	Y	Y	Y
51547	DINITROPHENOLS	25550587		Y	Y
52495	DINITROTOLUENE (ALL ISOMERS)	25321146		Y	Y
52496	DINITROTOLUENE, 2,4-	121142	Y	Y	Y
52497	DINITROTOLUENE, 2,6-	606202		Y	Y
52684	DINONYLPHENOL	1323655			Y
52705	DIOCTYLPHTHALATE, N-	117840			Y
52890	DIOXANE, 1,4-	123911	Y	Y	Y
11687	DIOXIN		Y	Y	
52713	DIOXOLANE, 1,3-	646060			Y
52002	DIPHENYL ETHER	101848	Y		Y
11326	DIPHENYLAMINE	122394	Y	Y	
59836	DIPHENYLHYDRAZINE, 1,2-	122667	Y	Y	Y
58242	DIPHENYLMETHANE-4, 4-DIISOCYANATE	101688	Y	Y	Y
52900	DIPROPYL ETHER	111433			Y
52254	DIPROPYLAMINE	142847			Y
51479	DIPROPYLENE GLYCOL	25265718			Y
52833	DIPROPYLENE GLYCOL METHYL ETHER...	88917220			Y
52901	DIPROPYLENE GLYCOL METHYLENE				Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52835	DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590948			Y
52832	DIPROPYLENEGLYCOL MONOETHYL ETHER	30025388			Y
11630	DIQUAT	85007	Y		
52355	DI-SEC-BUTYL-P-PHENYLDIAMINE, N,N-	101962			Y
11632	DI-SEC-OCTYL PHTHALATE	117817	Y	Y	
59002	DISTILLATE	64742478			Y
58625	DISULFIDES—U				Y
11820	DISULFURAM	97778			
11432	DISYSTON	298044			
53605	DI-TERT-BUTYL PEROXIDE	110054			Y
52441	DI-TERT-BUTYL-P-CRESOL, 2,6-	353593		Y	Y
56681	DODECANE	112403			Y
51375	DODECANEDIOIC ACID	693232		Y	Y
55250	DODECENE	25378227			Y
51051	DODECENYL SUCCINIC ANHY	19780111			Y
51457	DODECYL ALCOHOL	112538			Y
51115	DODECYL BENZENESULFONIC ACID	27176870			Y
53566	DOWICIDE B	136323			Y
11329	DYFONATE	944229			
14810	DYSPROSIUM—DY				
11436	ENDOSULFAN	115297			
52910	EPICHLOROHYDRIN	106898	Y	Y	Y
11439	EPN	2104645	Y		
52912	EPOXY RESIN				Y
51576	EPOXY-1,2-PROPANOL, 3-	556525			Y
14815	ERBIUM-ER				
52600	ESTERS—U				Y
56550	ETHANE	74840			
53396	ETHANE, 1,1,2,2-CL-2-FL-	354143		Y	Y
53524	ETHANE, 1,1,2-CL-1,2,2-FL-	76131		Y	
58710	ETHANETHIOL	75081		Y	Y
51460	ETHANOL	64175			Y
52280	ETHANOLAMINE	141435			Y
52800	ETHERS—U				Y
11442	ETHION	563122			
52632	ETHOXY ETHYLACETATE, 2-	111159	Y		Y
53317	ETHOXY-1,1,2,2,3,3,4,4,4-NONAFLUORO...	163702054			
53318	ETHOXYDIFLUOROMETHY-1,1,1,2,3,3,3-H...	163702065			
52690	ETHOXYLATED NONYLPHENOL,BRANCHED				Y
51486	ETHOXYTRIGLYCOL	112505	Y	Y	Y
52680	ETHYL ACETATE	141786			Y
52700	ETHYL ACRYLATE	140885	Y	Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52450	ETHYL BENZENE	100414	Y	Y	Y
53260	ETHYL CHLORIDE	75003	Y	Y	Y
52720	ETHYL CHLOROFORMATE	541413		Y	Y
52718	ETHYL FORMATE	109944			Y
52877	ETHYL GLYCOL DIMETHYL ETHER	110714	Y		Y
51123	ETHYL HEXANOIC ACID,2-	149575			Y
51521	ETHYL HEXANOL, 2-	104767			Y
52724	ETHYL HEXYL CHLOROFORMATE	24468131			Y
52717	ETHYL ISO-BUTYRATE	97621			Y
58601	ETHYL ISOTHIOCYANATE	542858			Y
52673	ETHYL LACTATE	97643			Y
52773	ETHYL METHACRYLATE	97632			Y
52810	ETHYL METHYL ETHER	540670			Y
52716	ETHYL N-BUTYRATE	105544			Y
52727	ETHYL ORTHOFORMATE	1225102			Y
52719	ETHYL PROPIONATE	105373			Y
52875	ETHYL PROPYL ETHER	628320			Y
54052	ETHYL SEC-AMYL KETONE	541855			Y
58805	ETHYL SILICATE	78104			Y
58798	ETHYL SULFIDE	352932			Y
51496	ETHYL-1, 3-HEXANEDIOL, 2-	94962			Y
52699	ETHYL-2-CYANOACRYLATE	7085850			Y
52721	ETHYL-3-ETHOXYPROPIONATE				Y
52471	ETHYL-3-ETHYOXYPROPRIONATE	763699			Y
51671	ETHYL-3-PROPYL ACROLEIN, 2-	645625			Y
58715	ETHYL-4-METHYLBENZENE, 1-	622968			Y
52681	ETHYLACETOACETATE	141979			Y
52270	ETHYLAMINE	75047			Y
52701	ETHYL-B-ETHOXYPROPIONATE	763699			Y
54051	ETHYLBUTYL KETONE	106354			Y
55300	ETHYLENE	74851		Y	Y
52290	ETHYLENE DIAMINE	107153			Y
53120	ETHYLENE DIBROMIDE	106934	Y	Y	Y
51471	ETHYLENE GLYCOL	107211	Y	Y	Y
51498	ETHYLENE GLYCOL DIACETATE	111557			Y
51474	ETHYLENE GLYCOL DINITRATE	628966			Y
52881	ETHYLENE GLYCOL MONOETHYL ETHER	110805		Y	Y
58440	ETHYLENE OXIDE	75218	Y	Y	Y
59819	ETHYLENE THIOUREA	96457	Y	Y	Y
58230	ETHYLENEAMINE	151564	Y	Y	Y
53304	ETHYLFLUORIDE	353366			
51601	ETHYLHEXALDEHYDE (DOT)	123057			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52702	ETHYLHEXYL ACRYLATE, 2-	103117			Y
58294	ETHYLHEXYL NITRATE, 2-	27247967			Y
59811	ETHYLIDENE DICHLORIDE	75343	Y	Y	Y
55315	ETHYLIDENE NORBORNENE	16219753			Y
52271	ETHYLMORPHOLINE, N-	100743			Y
58712	ETHYLTOLUENE, M-	620144			Y
58711	ETHYLTOLUENE, O-	611143			Y
14820	EUROPIUM—EU				
12400	FATS—ANIMAL				
13110	FATS—VEGETABLE				
51425	FATTY ACID AMIDE				Y
51421	FATTY ALCOHOLS	68439509			Y
59175	FCC FEED				Y
12770	FEATHER MEAL				
13130	FEED MIXTURES				
14210	FELDSPAR				
11340	FERBAM	14484641		Y	
14305	FERRIC SULFATE	100285225			
14761	FERROVANADIUM DUST	12604589		Y	
14376	FINE MINERAL FIBERS		Y		
12740	FISH MEAL				
13140	FLOUR				
59858	FLUOMETURON	2164172		Y	Y
52477	FLUORANTHENE	206440			
58204	FLUORENYLACETAMIDE, N-2-	53963	Y	Y	Y
11230	FLUORIDES (EXCEPT HF)	16984488			
70116	FLUORIDES—INORGANIC GASES				
70115	FLUORINE	7782414		Y	
53400	FLUOROCARBONS—U				
53471	FLUOROTRICHLOROMETHANE	75694		Y	
13150	FOOD PRODUCTS (GENERAL)				
51680	FORMALDEHYDE	50000	Y	Y	Y
51685	FORMALDEHYDE, POLYMER WITH BENZENA...	135108882			Y
11210	FORMALIN	50000	Y	Y	
58236	FORMAMIDE	75127			Y
51180	FORMIC ACID	64186		Y	Y
11180	FORMIC ACID PARTICULATES			Y	
53450	FREONS—U				
59200	FUEL OIL—U				Y
71300	FUNGICIDE INORGANIC GAS—U				
58960	FUNGICIDE ORGANIC GAS—U				Y
11800	FUNGICIDE PART—U				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
51700	FURFURAL	98011		Y	Y
51465	FURFURYL ALCOHOL	98000			Y
14825	GADOLINIUM—GD				
14230	GALLIUM—GA	7440553			
59250	GAS OIL				Y
59003	GASOLINE	8006619			Y
70015	GERMANIUM TETRAHYDRIDE	7782652			
14240	GERMANIUM—GE	7440564			
51702	GLUCONIC ACID	526954			Y
51703	GLUTARALDEHYDE	111308			Y
51475	GLYCERIN MIST	56815			Y
51434	GLYCOL ETHER DPM	34590948		Y	Y
52830	GLYCOL ETHERS (CELLOSOLVES)		Y	Y	Y
58207	GLYCOLONITRILE	107164			Y
51470	GLYCOLS—U				Y
51469	GLYOXYLIC ACID	298124			Y
14250	GOLD—AU	7440575			
13160	GRAIN—U				
14141	GRAPHITE, SYNTHETIC.& NATURAL	7782425			
13170	GRASS SEED				
14220	GUAR GUM				
52788	GUAR GUM VAPOR	9000300			Y
14260	HAFNIUM—HF	7440586			
52911	HALOGENATED ALKYLEPOXIDE				Y
53000	HALOGENATED CARBON COMPOUNDS—U				Y
70100	HALOGEN—U				
13180	HAY				
53295	HCFC-225CA	422560		Y	
53296	HCFC-225CB	507551		Y	
70020	HELIUM	7440597			
11447	HEPTACHLOR	76448	Y	Y	
53399	HEPTAFLUOROPROPANE, 1,1,1,2,3,3,3-	431890			
56575	HEPTANE	142825			Y
56576	HEPTANE ISOMERS				Y
51451	HEPTANOL, 3-	589822			Y
54072	HEPTANONE, 2-	110430			Y
55320	HEPTENES, MIXED ISOMERS				Y
71200	HERBICIDE INORGANIC GAS—U				
58940	HERBICIDE ORGANIC GAS—U				Y
11600	HERBICIDE PART—U				
54021	HEXACHLOROACETONE	116165			Y
11345	HEXACHLOROBENZENE	118741	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
55360	HEXACHLOROBUTADIENE	87683	Y	Y	Y
55350	HEXACHLOROCYCLOPENTADIENE	77474	Y	Y	Y
56560	HEXACHLOROETHANE	67721	Y	Y	Y
11347	HEXACHLORONAPHTHALENE	1335871	Y	Y	
55340	HEXADIENE	42296742			Y
54079	HEXAFLUOROETHANE	76164			Y
53310	HEXAFLUOROPROPANE, 1,1,1,2,3,3-	431630			
53305	HEXAFLUOROPROPANE, 1,1,1,3,3,3-	690391			
52219	HEXAMETHYL DIAMINE	124094		Y	Y
58817	HEXAMETHYLCYCLOTRISILOXANE	541059			
52203	HEXAMETHYLDISILIZANE	999973			Y
58816	HEXAMETHYLDISILOXANE	107460			
58243	HEXAMETHYLENE DIISOCYANATE	822060	Y	Y	Y
59850	HEXAMETHYLENE DIISOCYANATE, 1,6-	822060	Y	Y	Y
58232	HEXAMETHYLENEIMINE	111499			Y
58235	HEXAMETHYLPHOSPHORAMIDE	680319	Y	Y	
56600	HEXANE	110543	Y	Y	Y
56595	HEXANE BRANCHED ISOMERS—U				Y
56730	HEXANE, N-	110543	Y	Y	Y
51520	HEXANOL	111273			Y
51497	HEXAOXATRICOSANE, 5,8,11,13,16,19-	143293			Y
56590	HEXENE	25264931			Y
52822	HEXYL CARBITOL, N-	112594	Y	Y	Y
52852	HEXYL CELLOSOLVE, N-	112254	Y	Y	Y
52218	HEXYLAMINE, N-	111262			Y
53297	HFC 43-10MEE	138495428			
14830	HOLMIUM—HO				
53350	HYDANTOIN, 1,3-DICHLORO-5,5-DIMETHYL-	118525			Y
71400	HYDRAZINE	302012	Y	Y	
71401	HYDRAZINE SULFATE	10034932		Y	
59828	HYDRAZOBENZENE	122667	Y	Y	Y
70173	HYDRIDES—U				
11164	HYDRIOTIC ACID	10034852			
11158	HYDROBROMIC ACID	10035106			
11160	HYDROCHLORIC ACID	7647010	Y	Y	
11166	HYDROCYANIC ACID	74908	Y	Y	
70260	HYDROCYANIC ACID VAPOR	74908	Y	Y	
11162	HYDROFLUORIC ACID	7664393	Y	Y	
70030	HYDROGEN	1333740			
70175	HYDROGEN BROMIDE—HBR	10035106		Y	
70200	HYDROGEN CHLORIDE	7647010	Y	Y	
58240	HYDROGEN CYANIDE GAS	74908	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
70250	HYDROGEN FLUORIDE	7664393	Y	Y	
70275	HYDROGEN IODIDE	10034852			
70061	HYDROGEN PEROXIDE	7722841			
70295	HYDROGEN SELENIDE	7783075	Y	Y	
70300	HYDROGEN SULFIDE	7783064			
52486	HYDROGENATED TERPENYLS	61788327			Y
54295	HYDROQUINONE	123319	Y	Y	Y
59020	HYDROTREATED HEAVY NAPHTHENIC...	64742525			Y
51494	HYDROXYLAMINE	7803498			Y
51222	HYDROXYPROPYL ACRYLATE	25584832			Y
52457	INDENE	95136			Y
14270	INDIUM—IN	7440746			
70000	INORGANIC GASES—U				
71100	INSECTICIDE INORG GAS—U				
58920	INSECTICIDE ORG GAS—U				Y
11400	INSECTICIDES—U				
11235	IODIDES (EXCEPT HI)				
70120	IODINE	7553562			
53550	IODOCARBONS—U				Y
53577	IODOFORM	75478			Y
14290	IRIDIUM—IR	7439885			
14302	IRON (2) CHLORIDE—FECL <sub>2</sub>				
14306	IRON (2) OXIDE—FEO				
14304	IRON (3) CHLORIDE—FECL <sub>3</sub>				
14308	IRON (3) OXIDE—FE <sub>2</sub> O <sub>3</sub>				
14307	IRON PENTACARBONYL	13463406		Y	
14301	IRON SOLUBLE SALT				
14300	IRON—FE	15438310			
56672	ISOCTENE	11071479			Y
52621	ISOAMYL ACETATE	123922		Y	Y
51485	ISOAMYL ALCOHOL	123513		Y	Y
56701	ISOAMYLENE	563451			Y
56625	ISOBUTANE	75285			Y
51490	ISOBUTANOL	78831			Y
55178	ISOBUTENE	115117			Y
52641	ISOBUTYL ACETATE	110190			Y
52213	ISOBUTYL AMINE	78819			Y
53204	ISOBUTYL CHLORIDE	513360			Y
56670	ISOBUTYL ISOBUTYRATE	97858			Y
52774	ISOBUTYL METHACRYLATE	97869			Y
55400	ISOBUTYLENE	115117			Y
51661	ISOBUTYRALDEHYDE	78842		Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52763	ISOBUTYRATE				Y
58233	ISOBUTYRIC ACID	79312			Y
58208	ISOBUTYRONITRILE	78820	Y		Y
52500	ISOCYANATES—U				Y
56650	ISOHEPTANE	31394544			Y
56528	ISOHEXANE (AKA 2-METHYLPENTANE)	107835			Y
56675	ISOOCTANE	26635643			Y
51495	ISOOCTYL ALCOHOL	26952216			Y
56700	ISOPENTANE	78784			Y
51500	ISOPENTANOL	123513			Y
54200	ISOPHORONE	78591	Y		Y
58245	ISOPHORONE DIISOCYANATE	4098719		Y	Y
55450	ISOPRENE	78795			Y
51510	ISOPROPANOL	67630		Y	Y
52740	ISOPROPYL ACETATE	108214			Y
52741	ISOPROPYL CHLOROACETATE	105486			Y
52722	ISOPROPYL CHLOROFORMATE	108236			Y
52920	ISOPROPYL ETHER	108203			Y
52742	ISOPROPYL FORMATE	625558			Y
52745	ISOPROPYL FORMATE	625558			Y
52921	ISOPROPYL GLYCIDYL ETHER	4016142			Y
58704	ISOPROPYL MERCAPTAN	75332		Y	Y
52321	ISOPROPYLAMINE	75310			Y
51582	ISOSAFROLE	120581		Y	Y
51300	ISOVALERIC ACID	503742			Y
59004	JET FUEL				Y
14309	KAOLIN				
11453	KEPONE	143500			
59005	KEROSENE	8008206			Y
54001	KETENE	463514			Y
54000	KETONES—U				Y
51221	LACTIC ACID	50215			Y
58391	LACTONITRILE	78977			Y
14835	LANTHANUM—LA				
52785	LATEX	9016006			Y
14319	LEAD & COMPOUNDS		Y	Y	
14316	LEAD (2) OXIDE	1317368	Y	Y	
14318	LEAD (4) OXIDE	1309600	Y	Y	
14312	LEAD ARSENATE	7784409	Y	Y	
14315	LEAD OXIDE	1317368	Y	Y	
14310	LEAD—PB	7439921	Y	Y	
13190	LEGUMES—U				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
14145	LIGNITE DUST				
55005	LIMONENE	138863			Y
55460	LIMONENE, D-	5989275			Y
11350	LINDANE	58899	Y	Y	
59270	LIQUEFIED PETROLEUM GAS				Y
14330	LITHIUM HYDRIDE	7580678			
14325	LITHIUM—LI	7782890			
59007	LUBRICATING OIL				Y
14840	LUTETIUM—LU				
14337	MAGNESITE				
14342	MAGNESIUM CHLORIDE—MGCL				
11112	MAGNESIUM NITRATE	10377603			
14344	MAGNESIUM OXIDE—MGO	1309484			
14335	MAGNESIUM—MG	7439954			
11460	MALATHION	121755		Y	
51200	MALEIC ACID	110167			Y
58460	MALEIC ANHYDRIDE	108316	Y	Y	Y
58209	MALONONITRILE	109773		Y	Y
15110	MANEB	12427382		Y	
14355	MANGANESE & COMPOUNDS		Y	Y	
15105	MANGANESE CYCLOPENTADIENE	542927	Y	Y	
14354	MANGANESE DIOXIDE—MNO <sub>2</sub>	1313139	Y	Y	
14350	MANGANESE—MN	7439965	Y	Y	
12600	MANURE				
11411	MCI-C00099 CHLORDANE	57749	Y	Y	
12700	MEAL, ANIMAL				
13096	MEAL, VEGETABLE				
12800	MEAT SMOKING				
53630	MEK PEROXIDE	1338234			Y
59827	MELAMINE	108781			Y
55010	MENTHA-1, 5-DIENE, P-	99832			Y
58700	MERCAPTANS—U				Y
14361	MERCURY & COMPOUNDS		Y	Y	
70360	MERCURY VAPOR	7439976	Y	Y	
14360	MERCURY—HG	7439976	Y	Y	
54059	MESITYL OXIDE	141797			Y
52277	META-DIISOPROPYLBENZENE	99627			Y
70350	METAL VAPOR—U				
51515	METALLIC CARBIDES				
52550	METALLIC CARBONATES				
52512	META-XYLENE	108383	Y	Y	Y
52771	METHACRYLATES				Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
51141	METHACRYLIC ACID	79414			Y
58250	METHACRYLONITRILE	126987		Y	Y
60000	METHANE	74828			
51530	METHANOL	67561	Y	Y	Y
52922	METHOXY-1-PROPANOL, 2-	107982			Y
51478	METHOXY-2-ACETOXYPROPANE, 1-	108656			Y
11462	METHOXYCHLOR	72435	Y	Y	
51468	METHOXYETHANOL, 2-	109864	Y	Y	Y
51433	METHOXYTRIGLYCOL	112356	Y	Y	Y
52760	METHYL ACETATE	79209			
51825	METHYL ACETYLENE	74997			Y
52770	METHYL ACRYLATE	96333		Y	Y
52297	METHYL AMINE	74895			Y
52226	METHYL ANILINE, 2-	95534	Y	Y	Y
53125	METHYL BROMIDE	74839	Y	Y	Y
51662	METHYL BUTANAL, 2-	96173			Y
54060	METHYL BUTYL KETONE	591786			Y
52761	METHYL BUTYRATE	623427			Y
51493	METHYL CARBITOL	111773	Y	Y	Y
52854	METHYL CELLOSOLVE	109864	Y	Y	Y
52856	METHYL CELLOSOLVE ACETATE	110496	Y	Y	Y
53280	METHYL CHLORIDE	74873	Y	Y	Y
52723	METHYL CHLOROFORMATE	79221		Y	Y
51532	METHYL CYCLOHEXANOL	25639423			Y
54074	METHYL CYCLOHEXANONE, 2-	583608			Y
11464	METHYL DEMETON	8022002			
54065	METHYL ETHYL KETONE	78933			Y
53530	METHYL FLUORIDE	593533			Y
52784	METHYL FORMATE	107313			
52458	METHYL INDENE	29036257			Y
53575	METHYL IODIDE	74884	Y	Y	Y
51533	METHYL ISOAMYL ALCOHOL	108112			Y
54073	METHYL ISOAMYL KETONE	110123			Y
54070	METHYL ISOBUTYL KETONE	108101	Y	Y	Y
52762	METHYL ISOBUTYRATE	547637			Y
58256	METHYL ISOCYANATE	624839	Y	Y	Y
54075	METHYL ISOPROPYL KETONE	563804			Y
58257	METHYL ISOTHIOCYANATE	556616		Y	Y
58725	METHYL MERCAPTAN	74931			Y
52780	METHYL METHACRYLATE	80626	Y	Y	Y
52476	METHYL NAPHTHALENE	1321944	Y		Y
11466	METHYL PARATHION	298000		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
56601	METHYL PENTANE, 3-	96140			Y
52786	METHYL PROPIONATE	554121			Y
52940	METHYL PROPYL ETHER	557175			Y
54076	METHYL PROPYL KETONE	107879			Y
58281	METHYL PYRIDINE, 3-	108996			Y
58810	METHYL SILICATE	681845			Y
58812	METHYL SILOXANE	2171962			Y
52482	METHYL STYRENE, B-	637503			Y
52815	METHYL TERT-BUTYL ETHER	1634044	Y	Y	Y
52878	METHYL TERT-BUTYL ETHER	1634044	Y	Y	Y
58602	METHYL THIOCYANATE	556649			Y
58606	METHYL THIOPHENE, 2-	554143			Y
58607	METHYL THIOPHENE, 3-	616444			Y
55529	METHYL-1-PENTENE, 2-	763291			Y
51491	METHYL-2,4-PENTANEDIOL, 2-	107415			Y
58255	METHYL-2-CYANOACRYLATE	137053			Y
51435	METHYL-2-PENTANOL, 2-	590363			Y
51419	METHYL-2-PENTANOL, 4-	108112			Y
54058	METHYL-2-PYRROLIDINONE, 1-	872504		Y	Y
54053	METHYL-2-PYRROLIDONE, 1-	120945			Y
51489	METHYL-3-PENTANOL, 2-	565673			Y
58282	METHYL-3-PYRROLIDONE, 2-				Y
52232	METHYL-6-ETHYLANILINE, 2-	24549062			
51431	METHYLAMINOETHANOL, N-	109831			Y
52296	METHYLAMYL ALCOHOL	54972973			Y
52765	METHYLBUTANOL, 2-	137326			Y
52623	METHYLBUTYL ACETATE, 2-	624419			Y
52803	METHYLCHLOROMETHYLETHER	107302	Y	Y	Y
56150	METHYLCYCLOHEXANE	108872			Y
56200	METHYLCYCLOPENTANE	96377			Y
15100	METHYLCYCLOPENTIDIENYL MANAGANESE...	12108133	Y	Y	
52202	METHYLDIETHANOLAMINE	105599			Y
52227	METHYLENE 2-CHLOROANILINE				Y
53251	METHYLENE BROMIDE	74953		Y	Y
53250	METHYLENE CHLORIDE	75092	Y	Y	
59824	METHYLENE BIS, 4,4- (2-CHLORANILINE)	101144	Y	Y	Y
59825	METHYLENE BIS, 4,4- (N,N-DIMETHYLANILINE)	101611	Y	Y	Y
52224	METHYLENE DIANILINE, 4,4-	101779	Y	Y	Y
54080	METHYLENE DICYCLOHEXANAMINE, 4,4-	1761713			Y
58219	METHYLGLUTARONITRILE	4553622			Y
52855	METHYLHEPTANE, 3-	589811			Y
56651	METHYLHEXANE, 3-	589344			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
59807	METHYLHYDRAZINE	60344	Y	Y	Y
52272	METHYLMORPHOLINE-4-OXIDE, 4-	7529228			Y
52488	METHYLNAPHTHALENE, 2-	91576			
11468	MEVINPHOS	7786347		Y	
14370	MICA	12001262			
59817	MICHLER'S KETONE	90948	Y	Y	Y
12305	MILK				
59006	MINERAL OIL				Y
59275	MINERAL SPIRITS				Y
14375	MINERAL WOOL				
11470	MIREX	2385855			
52261	MODIFIED VEGETABLE OILS	8001205			Y
14387	MOLYBDENUM TRIOXIDE	1313275		Y	
14380	MOLYBDENUM—MO	7439987			
54078	MONOCHLOROPENTAFLUOROETHANE	76153		Y	
52279	MONOETHANOLAMINE	141435			Y
52221	MONOMETHYL ANILINE	100618			Y
58525	MONOMETHYL HYDRAZINE	60344	Y	Y	Y
52683	MONONONYLPHENOL	25154523			Y
52299	MORPHOLINE	110918			Y
59842	MUSTARD GAS	505602		Y	Y
59300	NAPHTHA	64741668			Y
59800	NAPHTHA, COAL-TAR				Y
59310	NAPHTHA, PETROLEUM, HEAVY CATALYTIC...	64741680			
59305	NAPHTHA, PETROLEUM, HYDRO TREAT LT	64742490			Y
52460	NAPHTHALENE	91203	Y	Y	Y
58244	NAPHTHALENE DIISOCYANATE	25551284	Y	Y	Y
11365	NAPHTHYL THIOUREA, A-	86884	Y		
52300	NAPHTHYLAMINE	25168109			Y
52301	NAPHTHYLAMINE, B-	91598		Y	Y
59818	NAPHTHYLAMINE, BETA-	91598	Y	Y	Y
55214	NCI-CO3258	135206		Y	Y
14845	NEODYMIUM—ND				
56620	NEOHEXENE	558372			Y
70056	NEON—NE	7440019			
56527	NEOPENTANE	463821			Y
14391	NICKEL & COMPOUNDS		Y	Y	
70385	NICKEL CARBONYL—NI(CO)	13463393	Y	Y	
14390	NICKEL—NI	7440020	Y	Y	
11475	NICOTINE	54115		Y	
14410	NIOBIUM—NB				
11165	NITRIC ACID	7697372		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
70401	NITRIC OXIDE	10102439			
58206	NITRILES				Y
51122	NITRILOTRIACETIC ACID	139139		Y	Y
52311	NITROANILINE, 2-	88744			Y
52312	NITROANILINE, 3-	99092			Y
52313	NITROANILINE, 4-	100016		Y	Y
52438	NITROBENZENE	98953	Y	Y	Y
52525	NITROBIPHENYL, 4-	92933	Y	Y	Y
52524	NITROBIPHENYL, O-	86000	Y		Y
13042	NITROCELLULOSE				
52436	NITROCHLOROBENZENE, P-	100005			Y
58264	NITROETHANE	79243			Y
59857	NITROFEN	1836755	Y	Y	Y
80500	NITROGEN	7727379			
70402	NITROGEN DIOXIDE	10102440			
58266	NITROGEN MUSTARD	51752		Y	Y
70400	NITROGEN OXIDES				
75000	NITROGEN TRIFLUORIDE	7783542			
58265	NITROGLYCERIN	55630		Y	Y
58260	NITROMETHANE	75525			Y
59821	NITRO-O-ANISIDINE, 5-	99592		Y	Y
11930	NITROPHENOL, 2-	88755		Y	
59822	NITROPHENOL, 4-	100027	Y	Y	Y
58271	NITROPROPANE, 1-	108032			Y
58270	NITROPROPANE, 2-	79469	Y	Y	Y
52310	NITROSAMINES—U			Y	Y
59803	NITROSODIETHYLAMINE, N-	55185		Y	Y
59809	NITROSODIMETHYLAMINE, N-	62759	Y	Y	Y
59851	NITROSODI-N-BUTYLAMINE, N	924163		Y	Y
59846	NITROSODI-N-PROPYLAMINE, N	621647		Y	Y
59815	NITROSODIPHENYLAMINE, N-	86306	Y	Y	Y
59841	NITROSODIPHENYLAMINE, P-	156105	Y	Y	Y
59860	NITROSOMETHYL VINYLAMINE, N	4549400		Y	Y
52298	NITROSOMORPHOLINE, N-	59892	Y	Y	Y
59805	NITROSOMORPHOLINE, N	59892	Y	Y	Y
59849	NITROSO-N-ETHYLUREA, N	759739		Y	Y
59848	NITROSO-N-METHYLUREA, N	684935	Y	Y	Y
58381	NITROSO-N-METHYLUREA, N-	684935	Y	Y	Y
59864	NITROSONORNICOTINE, N	16543558		Y	Y
59823	NITROSOPIPERIDINE, N	100754		Y	Y
52439	NITROTOLUENE, 3-	99081			Y
70403	NITROUS OXIDE	10024972			

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
59210	NO. 2 FUEL OIL				Y
59215	NO. 4 FUEL OIL				Y
59220	NO. 5 FUEL OIL				Y
59225	NO. 6 FUEL OIL				Y
53315	NONAFLUORO-4-METHOXYBUTANE, 1,1 ...	163702076			
56703	NONANE	111842			Y
56704	NONENE	27215958			Y
59869	NONYLPHENOXYPOLY(ETHYLENEOXY) ...	9016459			Y
52465	OCTACHLORONAPHTHALENE	2234131	Y	Y	Y
51466	OCTADECANOL, 1-	112925			Y
58819	OCTAMETHYLCYCLOTETRA-SILOXANE	556672			
58818	OCTAMETHYLTRISILOXANE	107517			
56674	OCTANE	111659			Y
56673	OCTENE	25377837			Y
99999	ODOR—U				
55000	OLEFINS—U				Y
51100	ORGANIC ACID—U				Y
58820	ORGANIC PHOSPHORUS OXIDES—U				Y
58800	ORGANIC SILICO-OXIDES—U				Y
58850	ORGANIC SULFUR-OXIDES—U				Y
15000	ORGANO METAL—U				
53600	ORGANO PEROXIDES—U				Y
58847	ORGANO PHOSPHATES				Y
70380	ORGANO-METALLIC VAPOR—U				
14100	ORTHOBORIC ACID	10043353			
14428	OSMIUM TETRAOXIDE	20816120		Y	
14420	OSMIUM—OS				
51205	OXALIC ACID	144627			Y
52704	OXOHEXYL ACETATE				Y
70118	OXYGEN DIFLUORIDE	7783417			
80000	OZONE	10028156		Y	
14430	PALLADIUM—PD	7440053			
53299	PARACHLOROBENZOTRIFLUORIDE	98566			
52278	PARA-DIISOPROPYLBENZENE	100185			Y
59330	PARAFFIN WAX FUMES	8002742			Y
56500	PARAFFIN, LINEAR—U				Y
56001	PARAFFINS, CYCLIC—U				Y
56000	PARAFFINS—U				Y
11890	PARAFORMALDEHYDE	30525894			
59872	PARAMENTHANE	99821			Y
11675	PARAQUAT	1910425		Y	
11480	PARATHION	56382	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
12000	PART—ANIMAL—U				
11900	PART—AROMATIC—U				
11000	PART—CHEMICAL—U				
11317	PART—CRUFORMATE	299865			
12912	PART—EPOXY RESIN				
52913	PART—HYDROCARBON RESINS				Y
12913	PART—HYDROCARBON RESINS—U				
15010	PART—METHYL MERCURY COMPOUNDS		Y	Y	
14000	PART—MINERAL—U				
18234	PART—POLYAMIDES—U				
10010	PART—RADIONUCLIDES		Y		
10000	PART—U				
13000	PART—VEGETABLE—U				
13205	PEANUT MEAL				
13210	PEANUT OIL				
13215	PEANUT PLANT MATERIAL (HULLS, ETC.)				
13200	PEANUTS—U				
70034	PENTABORANE	19624227			
52434	PENTACHLOROBENZENE	608935		Y	Y
53240	PENTACHLOROETHANE	76017		Y	Y
53282	PENTACHLOROFLUOROETHANE	354563			Y
52464	PENTACHLORONAPHTHALENE	1321648	Y		Y
11346	PENTACHLORONITROBENZENE	82688	Y	Y	
51560	PENTACHLOROPHENOL	87865	Y	Y	Y
55500	PENTADIENE	504609			Y
51751	PENTADIENE, (E)-1,3-	2004708			Y
51755	PENTADIENE, 1,4-	591935			Y
51476	PENTAERYTHRITOL	115775			Y
51484	PENTAETHYLENE GLYCOL	4792158			Y
53311	PENTAFLUOROBUTANE, 1,1,1,3,3-	406586			
52443	PENTAFLUROETHANE	354336			
53308	PENTAFLUOROPROPANE, 1,1,1,2,3-	431312			
53309	PENTAFLUOROPROPANE, 1,1,1,3,3-	460731			
53306	PENTAFLUOROPROPANE, 1,1,2,2,3-	679867			
53307	PENTAFLUOROPROPANE, 1,1,2,3,3-	24270664			
56750	PENTANE	109660			Y
56752	PENTANE, N-	109660			Y
55525	PENTENE, 1-	109671			Y
55526	PENTENE, 2-	109682			Y
55527	PENTENE, CIS-2-	627203			Y
58218	PENTENENITRILE, 4-	592518		Y	Y
58212	PENTENENITRILES—U				Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
58741	PERACETIC ACID	79210		Y	Y
70113	PERCHLORIC ACID	7601903			
53360	PERCHLOROETHANE	67721	Y	Y	Y
55550	PERCHLOROETHYLENE	127184	Y	Y	
58740	PERCHLOROMETHYLMERCAPTAN	594423		Y	Y
70111	PERCHLORYLFLUORIDE	7616946			
14440	PERLITE				
70060	PEROXIDES—U				
71000	PESTICIDE INORGANIC GAS—U				
58900	PESTICIDE ORGANIC GAS—U				Y
11300	PESTICIDE PART—U				
59009	PETROLEUM DISTILLATE	8002059		Y	Y
52259	PETROLEUM DISTILLATES	8042475			Y
59011	PETROLEUM NAPHTHA				Y
59012	PETROLEUM SULFONATE	61789853			Y
59866	PHENANTHRENE	85018	Y	Y	Y
51550	PHENOL	108952	Y	Y	Y
51575	PHENOL FORMALDEHYDE RESIN	9003354			Y
51568	PHENOL, 2-(2H-BENZOTRIAZOL-2-YL)-6-...	73936911			Y
51549	PHENOLS—U				Y
11482	PHENOLTHIAZINE	92842	Y		
52682	PHENYL ACETATE	122792			Y
52858	PHENYL CELLOSOLVE	122996	Y	Y	Y
52950	PHENYL ETHER (VAPOR)	101848	Y		Y
52951	PHENYL GLYCIDYL ETHER	122601			Y
52469	PHENYL MERCAPTAN	108985			Y
51511	PHENYL-2 PROPANOL, 2-	617947			Y
52350	PHENYLENEDIAMINE, P-	106503	Y	Y	Y
52517	PHENYLENEDIAMINE, P-	106503	Y	Y	Y
52437	PHENYLHYDRAZINE	100630			Y
58849	PHENYLPHOSPHINE	638211			Y
56780	PHENYLPROPANE, 1-	103651			Y
11483	PHORATE	298022			
53320	PHOSGENE	75445	Y	Y	Y
70025	PHOSGENE	75445	Y	Y	
14450	PHOSPHATE ROCK				
71121	PHOSPHINE	7803512	Y	Y	
70430	PHOSPHOR, GAS—U				
11170	PHOSPHORIC ACID	7664382			
14464	PHOSPHORUS PENTACHLORIDE	10026138		Y	
14465	PHOSPHORUS PENTASULFIDE	1314803		Y	
14466	PHOSPHORUS TRICHLORIDE	7719122		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
14460	PHOSPHORUS-P	7723140	Y	Y	
71122	PHOSPHORYL CHLORIDE	10025873			
14467	PHTHALIC ACID	88993			
58470	PHTHALIC ANHYDRIDE	85449	Y	Y	Y
11678	PICLORAM	1918021		Y	
58280	PICOLINE	108996			Y
11960	PICRIC ACID	88891		Y	
11240	PIGMENTS—U				
51901	PINENE, ALPHA-	80568			Y
51902	PINENE, BETA-	127913			Y
52322	PIPERIDINE	110894			Y
51760	PIPERYLENE, CIS-	1574410			Y
51765	PIPERYLENE, TRANS-	2004708			Y
11375	PIVAL	83261			
51250	PIVALIC ACID	75989			Y
52707	PIVALOYL CHLORIDE	3282302			Y
13084	PLANT MATERIAL (LEAF, STEM, BUR)				
11250	PLASTICS—U				
59350	PLATFORMATE	64741635			Y
14470	PLATINUM—PT	7440064			
21318	PM <sub>10</sub> 1,2-DIBROMO-3-CHLOROPROPANE	96128	Y	Y	
21688	PM <sub>10</sub> 2,4,5-T CONTAM. WTH TCDD				
21625	PM <sub>10</sub> 2,4-DICHLOROPHENOXYACETIC ACID	94757	Y	Y	
21312	PM <sub>10</sub> 2-CL-6-(3CLME)PYRIDINE	114261		Y	
21930	PM <sub>10</sub> 2-NITROPHENOL	88755		Y	
21990	PM <sub>10</sub> 3,5-DINITRO-O-TOLUAMIDE				
21912	PM <sub>10</sub> 4,6-DINITRO-O-CRESOL	534521	Y	Y	
21402	PM <sub>10</sub> ABATE	3383968	Y	Y	
25005	PM <sub>10</sub> ACRYLIC POLYOL				
21303	PM <sub>10</sub> ALDRIN	309002		Y	
23010	PM <sub>10</sub> ALFALFA				
21631	PM <sub>10</sub> ALKYL PHTHALATES				
24605	PM <sub>10</sub> ALUMINUM (III) SILICATE (2:1)	1302767			
24012	PM <sub>10</sub> ALUMINUM CHLORIDE—ALCL <sub>3</sub>	7446700		Y	
24014	PM <sub>10</sub> ALUMINUM HYDRXIDE—AL(OH) <sub>3</sub>	21645512			
24016	PM <sub>10</sub> ALUMINUM OXIDE—AL <sub>2</sub> O <sub>3</sub>	1344281		Y	
24010	PM <sub>10</sub> ALUMINUM—AL	7429905		Y	
21118	PM <sub>10</sub> AMMATE				
21105	PM <sub>10</sub> AMMONIUM CHLORIDE—NH <sub>4</sub> CL				
21100	PM <sub>10</sub> AMMONIUM COMPOUNDS—U				
21104	PM <sub>10</sub> AMMONIUM FLUORIDE	12125018			
21110	PM <sub>10</sub> AMMONIUM NITRATE—NH <sub>4</sub> NO <sub>3</sub>	6484522		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
21115	PM <sub>10</sub> AMMONIUM SULFATE—(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783202		Y	
24604	PM <sub>10</sub> AMORPHOUS SILICA				
21365	PM <sub>10</sub> A-NAPHTHYL THIOUREA	86884	Y		
21905	PM <sub>10</sub> ANTHRACENE	120127	Y	Y	
24023	PM <sub>10</sub> ANTIMONY & COMPOUNDS		Y	Y	
24022	PM <sub>10</sub> ANTIMONY TETRAHEDRITE		Y	Y	
24020	PM <sub>10</sub> ANTIMONY—SB	7440360	Y	Y	
24036	PM <sub>10</sub> ARSENIC & COMPOUNDS		Y	Y	
24032	PM <sub>10</sub> ARSENIC TRIOXIDE—AS <sub>2</sub> O <sub>3</sub>	1327533	Y	Y	
24030	PM <sub>10</sub> ARSENIC—AS	7440382	Y	Y	
24035	PM <sub>10</sub> ARSINE, ASH <sub>3</sub>	7784421	Y	Y	
24040	PM <sub>10</sub> ASBESTOS—U	1332214	Y	Y	
21305	PM <sub>10</sub> AZINPHOS METHYL	86500			
24052	PM <sub>10</sub> BARITE—BASO <sub>4</sub>	7727437			
24054	PM <sub>10</sub> BARIUM CARBONATE—BACO <sub>3</sub>			Y	
24051	PM <sub>10</sub> BARIUM COMPOUNDS			Y	
24056	PM <sub>10</sub> BARIUM CYANIDE—BA(CN) <sub>2</sub>	542621	Y	Y	
24058	PM <sub>10</sub> BARIUM HYDROXIDE—BA(OH)			Y	
24059	PM <sub>10</sub> BARIUM SILICIDE			Y	
24050	PM <sub>10</sub> BARIUM—BA	7440393		Y	
24018	PM <sub>10</sub> BAUXITE	1318167			
21308	PM <sub>10</sub> BAYGON	114261	Y	Y	
24060	PM <sub>10</sub> BENTONITE	1302789			
24071	PM <sub>10</sub> BERYLLIUM COMPOUNDS		Y	Y	
24070	PM <sub>10</sub> BERYLLIUM—BE	7440417	Y	Y	
24087	PM <sub>10</sub> BISMUTH TELLURIDE	1304821			
24088	PM <sub>10</sub> BISMUTH TELLURIDE SE-DO	12010570			
24080	PM <sub>10</sub> BISMUTH—BI	7440699			
22100	PM <sub>10</sub> BLOOD				
22720	PM <sub>10</sub> BLOOD MEAL				
22730	PM <sub>10</sub> BONE MEAL				
24095	PM <sub>10</sub> BORON OXIDE	1303862			
24090	PM <sub>10</sub> BORON—B	7440428			
25200	PM <sub>10</sub> C.I. ACID BLUE 9, DIAMMONIUM S	2650182		Y	
25205	PM <sub>10</sub> C.I. ACID BLUE 9, DISODIUM SAL	38444459			
25206	PM <sub>10</sub> C.I. ACID GREEN 3, MONOSODIUM	4680788		Y	
25195	PM <sub>10</sub> C.I. BASIC GREEN 4	569642		Y	
25197	PM <sub>10</sub> C.I. BASIC RED 1, MONOHYDROCHL	989388		Y	
25198	PM <sub>10</sub> C.I. DIRECT BLACK 38	1937377		Y	
25199	PM <sub>10</sub> C.I. DIRECT BLUE 6, TETRASODIUM	2602462		Y	
25207	PM <sub>10</sub> C.I. DIRECT BROWN 95	16071866		Y	
25201	PM <sub>10</sub> C.I. DISPERSE YELLOW 3	2832408		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
25191	PM <sub>10</sub> C.I. FOOD RED 15	81889		Y	
25204	PM <sub>10</sub> C.I. FOOD RED 5	3761533		Y	
25202	PM <sub>10</sub> C.I. SOLVENT ORANGE 7	3118976		Y	
25192	PM <sub>10</sub> C.I. SOLVENT YELLOW	97563		Y	
25196	PM <sub>10</sub> C.I. SOLVENT YELLOW 14	842079		Y	
25194	PM <sub>10</sub> C.I. SOLVENT YELLOW 34	492808		Y	
25193	PM <sub>10</sub> C.I. VAT YELLOW 4	128665		Y	
24115	PM <sub>10</sub> CADMIUM COMPOUNDS	7440439	Y	Y	
24114	PM <sub>10</sub> CADMIUM NITRATE—CD(NO <sub>3</sub> )	10325947	Y	Y	
24112	PM <sub>10</sub> CADMIUM OXIDE—CDO	1306190	Y	Y	
24110	PM <sub>10</sub> CADMIUM—CD	7440439	Y	Y	
24120	PM <sub>10</sub> CALCIUM	7440702			
24122	PM <sub>10</sub> CALCIUM ALUMNATE SILICATE				
24121	PM <sub>10</sub> CALCIUM ARSENATE	7778441	Y	Y	
24123	PM <sub>10</sub> CALCIUM CARBONATE—CACO <sub>3</sub>	471341			
24125	PM <sub>10</sub> CALCIUM CYANAMIDE	156627	Y	Y	
24124	PM <sub>10</sub> CALCIUM FLUORIDE—CAF <sub>2</sub>	7789755			
24129	PM <sub>10</sub> CALCIUM HYDROXIDE				
24126	PM <sub>10</sub> CALCIUM OXIDE—CAO	1305788			
24127	PM <sub>10</sub> CALCIUM SILICATE CASIO <sub>3</sub>	1344952			
24128	PM <sub>10</sub> CALCIUM SULFATE CASO <sub>4</sub> —2H <sub>2</sub> O	7778189			
21406	PM <sub>10</sub> CARBARYL	63252	Y	Y	
21408	PM <sub>10</sub> CARBOFURAN	1563662		Y	
24142	PM <sub>10</sub> CARBON BLACK	1333864			
24140	PM <sub>10</sub> CARBON—C	7440440			
23040	PM <sub>10</sub> CELLULOSE				
23041	PM <sub>10</sub> CELLULOSE ACETOBUTYRATE				
24149	PM <sub>10</sub> CEMENT (PORTLAND)				
24805	PM <sub>10</sub> CERIUM—CE				
24154	PM <sub>10</sub> CESIUM HYDROXIDE	21351791			
24150	PM <sub>10</sub> CESIUM—CS	7440462			
23162	PM <sub>10</sub> CHAFF				
22315	PM <sub>10</sub> CHEESE				
21411	PM <sub>10</sub> CHLORDANE	57749	Y	Y	
21413	PM <sub>10</sub> CHLORINATED CAMPHEN	8001352	Y	Y	
21481	PM <sub>10</sub> CHLOROPHENOLS—OTHER	95578		Y	
21314	PM <sub>10</sub> CHLOROPYRIFOS				
24161	PM <sub>10</sub> CHROMATES INSOLUBLE PARTICLES	20736645	Y	Y	
24165	PM <sub>10</sub> CHROME—HEXAVALENT	1333820	Y	Y	
21155	PM <sub>10</sub> CHROMIC ACID	7738945	Y	Y	
24164	PM <sub>10</sub> CHROMIUM & COMPOUNDS		Y	Y	
24162	PM <sub>10</sub> CHROMIUM OXIDE—CRO	1308389	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
24160	PM <sub>10</sub> CHROMIUM—CR	7440473	Y	Y	
24163	PM <sub>10</sub> CHROMIUM SOLUBLE SALTS	7440473	Y	Y	
23050	PM <sub>10</sub> CITRUS PEELS				
21315	PM <sub>10</sub> CLOPIDOL	2971906			
24144	PM <sub>10</sub> COAL				
24171	PM <sub>10</sub> COBALT & COMPOUNDS		Y	Y	
24170	PM <sub>10</sub> COBALT—CO	7440484	Y	Y	
23060	PM <sub>10</sub> COFFEE				
24146	PM <sub>10</sub> COKE				
24147	PM <sub>10</sub> COKE OVEN EMISSIONS		Y		
23070	PM <sub>10</sub> COMPOSTED MATERIAL				
21150	PM <sub>10</sub> CONDENSED INORGANIC ACIDS—U				
21200	PM <sub>10</sub> CONDENSED ORGANICS—U				
24193	PM <sub>10</sub> COPPER (FUME)			Y	
24194	PM <sub>10</sub> COPPER COMPOUNDS			Y	
24190	PM <sub>10</sub> COPPER—CU	7440508		Y	
23092	PM <sub>10</sub> COTTON HULLS				
23082	PM <sub>10</sub> COTTON LINT				
23090	PM <sub>10</sub> COTTONSEED				
23094	PM <sub>10</sub> COTTONSEED LINT				
23080	PM <sub>10</sub> COTTON—U				
21618	PM <sub>10</sub> CRAG HERBICIDE				
21317	PM <sub>10</sub> CRUFOMATE	229865			
24222	PM <sub>10</sub> CRYOLITE	15096523			
21060	PM <sub>10</sub> CURENE 442	101144	Y	Y	
21225	PM <sub>10</sub> CYANIDES (SOLID)—U	57125	Y	Y	
22300	PM <sub>10</sub> DAIRY PRODUCTS—U				
21418	PM <sub>10</sub> DASANIT	115902			
25203	PM <sub>10</sub> DDE	72559	Y	Y	
21420	PM <sub>10</sub> DDT	50293	Y		
21422	PM <sub>10</sub> DDVP	62737	Y	Y	
21424	PM <sub>10</sub> DEMETON	8065483			
21426	PM <sub>10</sub> DIACETONE ALCOHOL	123422			
24203	PM <sub>10</sub> DIATOMACEOUS EARTH	61790532			
24200	PM <sub>10</sub> DIATOMITE	61790532			
21419	PM <sub>10</sub> DIAZINON	333415		Y	
21428	PM <sub>10</sub> DIBROM			Y	
21320	PM <sub>10</sub> DICOUMAROL	66762	Y		
21430	PM <sub>10</sub> DIELDRIN	60571			
21910	PM <sub>10</sub> DINITROCRESOL (ALL ISOMERS)				
21687	PM <sub>10</sub> DIOXIN		Y	Y	
21326	PM <sub>10</sub> DIPHENYLAMINE	122394	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
21630	PM <sub>10</sub> DIQUAT	85007	Y		
21632	PM <sub>10</sub> DI-SEC-OCTYL PHTHALATE	117817	Y	Y	
21820	PM <sub>10</sub> DISULFURAM	97778			
21432	PM <sub>10</sub> DISYSTON	298044			
21329	PM <sub>10</sub> DYFONATE	944229			
24810	PM <sub>10</sub> DYSPROSIUM—DY				
21436	PM <sub>10</sub> ENDOSULFAN	115297			
21439	PM <sub>10</sub> EPN	2104645	Y		
22912	PM <sub>10</sub> EPOXY RESIN				
24815	PM <sub>10</sub> ERBIUM—ER				
21442	PM <sub>10</sub> ETHION	563122			
24820	PM <sub>10</sub> EUROPIUM—EU				
22400	PM <sub>10</sub> FATS ANIMAL				
23110	PM <sub>10</sub> FATS VEGETABLE				
22770	PM <sub>10</sub> FEATHER MEAL				
23130	PM <sub>10</sub> FEED MIXTURES				
24210	PM <sub>10</sub> FELDSPAR				
21340	PM <sub>10</sub> FERBAM	14484641		Y	
24305	PM <sub>10</sub> FERRIC SULFATE	100285225			
24761	PM <sub>10</sub> FERROVANADIUM DUST			Y	
24376	PM <sub>10</sub> FINE MINERAL FIBER		Y		
22740	PM <sub>10</sub> FISH MEAL				
23140	PM <sub>10</sub> FLOUR				
21230	PM <sub>10</sub> FLUORIDES (EXCEPT HF)				
23150	PM <sub>10</sub> FOOD PRODUCTS (GENERAL)				
21210	PM <sub>10</sub> FORMALIN	50000	Y	Y	
21180	PM <sub>10</sub> FORMIC ACID			Y	
21800	PM <sub>10</sub> FUNGICIDE PART—U				
24825	PM <sub>10</sub> GADOLINIUM—GD				
24230	PM <sub>10</sub> GALLIUM—GA	7440553			
24240	PM <sub>10</sub> GERMANIUM—GE	7440564			
24250	PM <sub>10</sub> GOLD—AU	7440575			
23160	PM <sub>10</sub> GRAIN—U				
24141	PM <sub>10</sub> GRAPHITE, SYNTH. & NATURAL	7782425			
23170	PM <sub>10</sub> GRASS SEED				
24220	PM <sub>10</sub> GUAR GUM				
24260	PM <sub>10</sub> HAFNIUM—HF	7440586			
23180	PM <sub>10</sub> HAY				
21447	PM <sub>10</sub> HEPTACHLOR	76448	Y	Y	
21600	PM <sub>10</sub> HERBICIDE PART—U				
21345	PM <sub>10</sub> HEXACHLOROBENZENE	118741	Y	Y	
21347	PM <sub>10</sub> HEXACHLORONAPHTHALENE	1335871	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
24830	PM <sub>10</sub> HOLMIUM—HO				
21164	PM <sub>10</sub> HYDRIOTIC ACID	10034852			
21158	PM <sub>10</sub> HYDROBROMIC ACID	10035106			
22913	PM <sub>10</sub> HYDROCARBON RESINS—U				
21160	PM <sub>10</sub> HYDROCHLORIC ACID	7647010	Y	Y	
21166	PM <sub>10</sub> HYDROCYANIC ACID	74908	Y	Y	
21162	PM <sub>10</sub> HYDROFLUORIC ACID	7664393	Y	Y	
24270	PM <sub>10</sub> INDIUM—IN	7440746			
21400	PM <sub>10</sub> INSECTICIDES—U				
21235	PM <sub>10</sub> IODIDES (EXCEPT HI)				
24290	PM <sub>10</sub> IRIDIUM—IR	7439885			
24302	PM <sub>10</sub> IRON 2 CHLORIDE—FECL <sub>2</sub>				
24306	PM <sub>10</sub> IRON 2 OXIDE—FEO				
24304	PM <sub>10</sub> IRON 3 CHLORIDE—FECL <sub>3</sub>				
24308	PM <sub>10</sub> IRON 3 OXIDE—FE <sub>2</sub> O <sub>3</sub>				
24307	PM <sub>10</sub> IRON PENTACARBONYL	13463406		Y	
24301	PM <sub>10</sub> IRON SOLUBLE SALT				
24300	PM <sub>10</sub> IRON—FE	15438310			
24309	PM <sub>10</sub> KAOLIN				
21453	PM <sub>10</sub> KEPONE	143500			
24835	PM <sub>10</sub> LANTHANUM—LA				
24319	PM <sub>10</sub> LEAD & COMPOUNDS		Y	Y	
24312	PM <sub>10</sub> LEAD ARSENATE	7784409	Y	Y	
24315	PM <sub>10</sub> LEAD OXIDE	1317368	Y	Y	
24316	PM <sub>10</sub> LEAD 2 OXIDE	1317368	Y	Y	
24318	PM <sub>10</sub> LEAD 4 OXIDE	1309600	Y	Y	
24310	PM <sub>10</sub> LEAD—PB	7439921	Y	Y	
23190	PM <sub>10</sub> LEGUMES—U				
24145	PM <sub>10</sub> LIGNITE DUST				
21350	PM <sub>10</sub> LINDANE	58899	Y	Y	
24330	PM <sub>10</sub> LITHIUM HYDRIDE	7580678			
24325	PM <sub>10</sub> LITHIUM—LI	7782890			
24840	PM <sub>10</sub> LUTETIUM—LU				
24337	PM <sub>10</sub> MAGNESITE				
24342	PM <sub>10</sub> MAGNESIUM CHLORIDE—MGCL				
21112	PM <sub>10</sub> MAGNESIUM NITRATE	10377603			
24344	PM <sub>10</sub> MAGNESIUM OXIDE—MGO	1309484			
24335	PM <sub>10</sub> MAGNESIUM—MG	7439954			
21460	PM <sub>10</sub> MALATHION	121755		Y	
25110	PM <sub>10</sub> MANEB	1247382		Y	
24355	PM <sub>10</sub> MANGANESE COMPOUNDS	7439965	Y	Y	
25105	PM <sub>10</sub> MANGANESE CYCLOPENTADIENE	542927	Y	Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
24354	PM <sub>10</sub> MANGANESE DIOXIDE—MNO <sub>2</sub>	1313139	Y	Y	
24350	PM <sub>10</sub> MANGANESE—MN	7439965	Y	Y	
22600	PM <sub>10</sub> MANURE				
22700	PM <sub>10</sub> MEAL ANIMAL				
23096	PM <sub>10</sub> MEAL VEGETABLE				
22800	PM <sub>10</sub> MEAT SMOKING				
24361	PM <sub>10</sub> MERCURY & COMPOUNDS		Y	Y	
24360	PM <sub>10</sub> MERCURY—HG	7439976	Y	Y	
21462	PM <sub>10</sub> METHOXYCHLOR	72435	Y	Y	
21464	PM <sub>10</sub> METHYL DEMETON				
25010	PM <sub>10</sub> METHYL MERCURY COMPOUNDS		Y	Y	
21466	PM <sub>10</sub> METHYL PARATHION			Y	
21468	PM <sub>10</sub> MEVINPHOS			Y	
24370	PM <sub>10</sub> MICA	12001262			
22305	PM <sub>10</sub> MILK				
24375	PM <sub>10</sub> MINERAL WOOL				
21470	PM <sub>10</sub> MIREX				
25100	PM <sub>10</sub> MMT (ANTIKNOCK)	12108133	Y	Y	
24387	PM <sub>10</sub> MOLYBDENIUM TRIOXIDE			Y	
24380	PM <sub>10</sub> MOLYBDENUM—MO	7439987			
24845	PM <sub>10</sub> NEODYMIUM—ND				
24391	PM <sub>10</sub> NICKEL & COMPOUNDS		Y	Y	
24390	PM <sub>10</sub> NICKEL—NI	7440020	Y	Y	
21475	PM <sub>10</sub> NICOTINE			Y	
24410	PM <sub>10</sub> NIOBIUM—NB				
21165	PM <sub>10</sub> NITRIC ACID			Y	
23042	PM <sub>10</sub> NITROCELLULOSE	9004700			
25000	PM <sub>10</sub> ORGANO METAL—U			Y	
24100	PM <sub>10</sub> ORTHOBORIC ACID				
24428	PM <sub>10</sub> OSMIUM TETRAOXIDE	20816120		Y	
24420	PM <sub>10</sub> OSMIUM—OS				
24430	PM <sub>10</sub> PALLADIUM—PD	7440053			
21890	PM <sub>10</sub> PARAFORMALDEHYDE	30525894			
21675	PM <sub>10</sub> PARAQUAT	1910425		Y	
21480	PM <sub>10</sub> PARATHION	56382	Y	Y	
22000	PM <sub>10</sub> PART—ANIMAL—U				
21900	PM <sub>10</sub> PART—AROMATIC—U				
21000	PM <sub>10</sub> PART—CHEMICAL—U				
24000	PM <sub>10</sub> PART—MINERAL—U				
20000	PM <sub>10</sub> PART—U				
23000	PM <sub>10</sub> PART—VEGETABLE—U				
23205	PM <sub>10</sub> PEANUT MEAL				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
23210	PM <sub>10</sub> PEANUT OIL				
23215	PM <sub>10</sub> PEANUT PLANT MATERIAL (HULLS...				
23200	PM <sub>10</sub> PEANUTS—U				
21346	PM <sub>10</sub> PENTACHLORONITROBENZENE	82688	Y	Y	
24440	PM <sub>10</sub> PERLITE				
21300	PM <sub>10</sub> PESTICIDE PART—U				
21482	PM <sub>10</sub> PHENOLTHIAZINE	92842	Y		
21483	PM <sub>10</sub> PHORATE				
24450	PM <sub>10</sub> PHOSPHATE ROCK				
24464	PM <sub>10</sub> PHOSPHORUS PENTACHLORIDE	10026138		Y	
24465	PM <sub>10</sub> PHOSPHORUS PENTASULFIDE	1314803		Y	
24466	PM <sub>10</sub> PHOSPHORUS TRICHLORIDE	7719122		Y	
24460	PM <sub>10</sub> PHOSPHORUS—P	7723140	Y	Y	
21170	PM <sub>10</sub> PHOSPORIC ACID				
24467	PM <sub>10</sub> PHTHALIC ACID	88993			
21678	PM <sub>10</sub> PICLORAM	1918021		Y	
21960	PM <sub>10</sub> PICRIC ACID	88891		Y	
21240	PM <sub>10</sub> PIGMENTS—U				
21375	PM <sub>10</sub> PIVAL				
23084	PM <sub>10</sub> PLANT MATERIAL (LEAF, STM, BUR)				
21250	PM <sub>10</sub> PLASTICS—U				
24470	PM <sub>10</sub> PLATINUM—PT	7440064			
28234	PM <sub>10</sub> POLYAMIDES—U				
21255	PM <sub>10</sub> POLYETHYLENE	9002884			
21256	PM <sub>10</sub> POLYETHYLENE GLYCOL	25322683			
21260	PM <sub>10</sub> POLYPROPYLENE	9003070			
21251	PM <sub>10</sub> POLYTETRAFLUOROETHYLENE	9002840			
21267	PM <sub>10</sub> POLYVINYL ALCOHOL	9002895			
21266	PM <sub>10</sub> POLYVINYL ACETATE	9003207			
21265	PM <sub>10</sub> POLYVINYLCHLORIDE	9002862			
24482	PM <sub>10</sub> POTASSIUM BIFLUORIDE				
24484	PM <sub>10</sub> POTASSIUM CYANIDE—KCN	151508	Y	Y	
24486	PM <sub>10</sub> POTASSIUM HYDROXIDE—KOH	1310583			
24488	PM <sub>10</sub> POTASSIUM OXIDE—K <sub>2</sub> O				
24137	PM <sub>10</sub> POTASSIUM SILICATE				
24489	PM <sub>10</sub> POTASSIUM SULFATE—K <sub>2</sub> SO <sub>4</sub>				
24480	PM <sub>10</sub> POTASSIUM—K	7440097			
22760	PM <sub>10</sub> POULTRY MEAL				
24850	PM <sub>10</sub> PRASEODYMIUM—PR				
24855	PM <sub>10</sub> PROMETHIUM—PM				
24500	PM <sub>10</sub> PROTACTINIUM—PA				
24510	PM <sub>10</sub> PUMICE				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
21485	PM <sub>10</sub> PYRETHRUM				
24520	PM <sub>10</sub> RADIUM—RA	7440144	Y		
24800	PM <sub>10</sub> RARE EARTH MINERALS—U				
24530	PM <sub>10</sub> RHENIUM—RE				
24541	PM <sub>10</sub> RHODIUM FUME AND DUST				
24540	PM <sub>10</sub> RHODIUM—RH				
23144	PM <sub>10</sub> RICE				
21380	PM <sub>10</sub> RONNEL				
23218	PM <sub>10</sub> ROSIN				
21488	PM <sub>10</sub> ROTENONE	83794	Y		
24550	PM <sub>10</sub> RUBIDIUM—RB				
24560	PM <sub>10</sub> RUTHENIUM—RU	7440188			
21185	PM <sub>10</sub> SALICYLIC ACID	69727			
24860	PM <sub>10</sub> SAMARIUM—SM				
24570	PM <sub>10</sub> SAND				
23045	PM <sub>10</sub> SAWDUST				
24580	PM <sub>10</sub> SCANDIUM—SC				
23164	PM <sub>10</sub> SEED COATS				
24595	PM <sub>10</sub> SELENIUM & COMPOUNDS		Y	Y	
24594	PM <sub>10</sub> SELENIUM HEXAFLUORIDES	7783791	Y	Y	
24590	PM <sub>10</sub> SELENIUM—SE	7782492	Y	Y	
24601	PM <sub>10</sub> SILICA OXIDE				
24602	PM <sub>10</sub> SILICA,CRYSTALLINE				
24603	PM <sub>10</sub> SILICONE CARBIDE				
24600	PM <sub>10</sub> SILICON—SI				
24611	PM <sub>10</sub> SILVER COMPOUNDS			Y	
24610	PM <sub>10</sub> SILVER—AG	7440224		Y	
24615	PM <sub>10</sub> SOAPSTONE > 1% CRYSTALLINES				
24623	PM <sub>10</sub> SODIUM ACETATE	127093			
24621	PM <sub>10</sub> SODIUM AZIDE	26628228		Y	
24633	PM <sub>10</sub> SODIUM BISULFITE	7631905			
24639	PM <sub>10</sub> SODIUM BOROHYDRIDE	16940662			
24622	PM <sub>10</sub> SODIUM CARBONATE—NA <sub>2</sub> CO <sub>3</sub>				
24625	PM <sub>10</sub> SODIUM CHLORATE	7775099			
24636	PM <sub>10</sub> SODIUM HYDROSULFIDE	16721805			
24630	PM <sub>10</sub> SODIUM HYDROXIDE—NAOH	1310732		Y	
24631	PM <sub>10</sub> SODIUM NITRITE	7632000		Y	
24635	PM <sub>10</sub> SODIUM STEARATE	822162			
24638	PM <sub>10</sub> SODIUM SULFATE (SOLUTION)	7757826			
24637	PM <sub>10</sub> SODIUM SULFIDE				
24620	PM <sub>10</sub> SODIUM—NA				
24640	PM <sub>10</sub> SOIL & CLAY—U				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
23225	PM <sub>10</sub> SOYBEAN MEAL				
23230	PM <sub>10</sub> SOYBEAN OIL				
23235	PM <sub>10</sub> SOYBEAN PLANT MATERIAL (HULL...				
23220	PM <sub>10</sub> SOYBEAN—U				
23250	PM <sub>10</sub> SPICES—U				
23168	PM <sub>10</sub> STARCH				
24653	PM <sub>10</sub> STRONTIUM CHROMATE (1:1)	7789062	Y	Y	
24654	PM <sub>10</sub> STRONTIUM SULFATE—SR <sub>SO</sub> <sub>4</sub>				
24650	PM <sub>10</sub> STRONTIUM—SR				
21220	PM <sub>10</sub> SUBTILISINS				
23270	PM <sub>10</sub> SUGAR BEET PULP				
23280	PM <sub>10</sub> SUGAR CANE (BAGASSE)				
23260	PM <sub>10</sub> SUGAR—U				
24641	PM <sub>10</sub> SULFATES—U				
24663	PM <sub>10</sub> SULFUR MONOCHLORIDE				
24667	PM <sub>10</sub> SULFUR PENTAFLUORIDE				
21175	PM <sub>10</sub> SULFURIC ACID			Y	
24660	PM <sub>10</sub> SULFUR—S				
24670	PM <sub>10</sub> TALC				
23219	PM <sub>10</sub> TALL OIL				
24680	PM <sub>10</sub> TANTALUM—TA				
23290	PM <sub>10</sub> TEA				
21385	PM <sub>10</sub> TEDP	3689245			
24690	PM <sub>10</sub> TELLURIUM—TE				
21492	PM <sub>10</sub> TEPP	107493			
24865	PM <sub>10</sub> TERBIUM—TB				
25125	PM <sub>10</sub> TERT-BUTYL CHROMATE	1189851	Y	Y	
21980	PM <sub>10</sub> TETRYL	479458			
24701	PM <sub>10</sub> THALLIUM COMPOUNDS			Y	
24700	PM <sub>10</sub> THALLIUM—TL			Y	
25208	PM <sub>10</sub> THIADIAZOLE				
21895	PM <sub>10</sub> THIRAM	137268		Y	
24710	PM <sub>10</sub> THORIUM—TH				
24870	PM <sub>10</sub> THULIUM—TM				
24720	PM <sub>10</sub> TIN—SN				
24735	PM <sub>10</sub> TITANIUM DIOXIDE				
24737	PM <sub>10</sub> TITANIUM TETRACHLORIDE	7550450	Y	Y	
24730	PM <sub>10</sub> TITANIUM—TI				
24045	PM <sub>10</sub> TREMOLITE	14567738	Y	Y	
25020	PM <sub>10</sub> TRIBUTYL TIN COMPOUNDS	688733		Y	
25130	PM <sub>10</sub> TRICYCLOHEXYLTINHYDROXIDE	13121705			
25021	PM <sub>10</sub> TRIETHYL TIN COMPOUNDS	997502		Y	

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
25022	PM <sub>10</sub> TRIMETHYL TIN COMPOUNDS	17272570		Y	
21989	PM <sub>10</sub> TRINITROTOLUENE	118967			
24632	PM <sub>10</sub> TRISODIUM PHOSPHATE—TSP	7601549			
24740	PM <sub>10</sub> TUNGSTEN—W				
23295	PM <sub>10</sub> TURPENTINE	8006642			
24750	PM <sub>10</sub> URANIUM	7440611	Y		
21050	PM <sub>10</sub> URETHANE	51796	Y	Y	
24760	PM <sub>10</sub> VANADIUM			Y	
24770	PM <sub>10</sub> VERMICULITE				
24775	PM <sub>10</sub> WELDING FUMES				
23146	PM <sub>10</sub> WHEAT				
22310	PM <sub>10</sub> WHEY				
23297	PM <sub>10</sub> WOOD DUST (NONALLERGENIC)				
23300	PM <sub>10</sub> YEAST				
24875	PM <sub>10</sub> YTTERBIUM—YB				
24782	PM <sub>10</sub> ZINC CHLORIDE—ZnCl <sub>2</sub>			Y	
24785	PM <sub>10</sub> ZINC COMPOUNDS			Y	
24783	PM <sub>10</sub> ZINC DIAKYL DITHIOPHOSPHATE			Y	
24784	PM <sub>10</sub> ZINC OXIDE—ZnO			Y	
25190	PM <sub>10</sub> ZINC STEARATE			Y	
24780	PM <sub>10</sub> ZINC—Zn			Y	
24795	PM <sub>10</sub> ZIRCONIUM SILICATE				
24790	PM <sub>10</sub> ZIRCONIUM—Zr				
55050	POLY DIMETHYLDIALYLAMMONIUM ...	26062793			Y
58234	POLYAMIDES—U				Y
52257	POLYAMINE H SPECIAL	37268681			Y
52461	POLYBROMINATED BIPHENYL	67774327	Y	Y	Y
52462	POLYCHLORINATED BIPHENYLS	1336363	Y	Y	Y
50002	POLYCYCLIC ORGANIC MATTER		Y	Y	Y
11255	POLYETHYLENE	9002884			
59875	POLYETHYLENE GLYCOL	25322683			Y
11256	POLYETHYLENE GLYCOL	25322683			
52470	POLYNUCLEAR AROMATICS		Y	Y	Y
51492	POLYOL				Y
11260	POLYPROPYLENE	9003070			
11251	POLYTETRAFLUOROETHYLENE	9002840			
11266	POLYVINYL ACETATE	9003207			
11267	POLYVINYL ALCOHOL	9002895			
11265	POLYVINYLCHLORIDE	9002862			
14482	POTASSIUM BIFLUORIDE				
14484	POTASSIUM CYANIDE —KCN	151508	Y	Y	
14486	POTASSIUM HYDROXIDE—KOH	1310583			

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
14488	POTASSIUM OXIDE—K <sub>2</sub> O				
14137	POTASSIUM SILICATE				
14489	POTASSIUM SULFATE—K <sub>2</sub> SO <sub>4</sub>				
14480	POTASSIUM—K	7440097			
12760	POULTRY MEAL				
14850	PRASEODYMIUM—PR				
59375	PROCESS FUEL GAS				Y
14855	PROMETHIUM—PM				
55610	PROPADIENE	463490			Y
56775	PROPANE	74986			Y
59852	PROPANE SULTONE	1120714	Y	Y	Y
58880	PROPANE SULTONE, 1,3-	1120714	Y	Y	Y
51477	PROPANEDIOL, 1,3-	504632			Y
51225	PROPANOIC ACID, 2-METHYL-MONOES...	25265774			Y
51570	PROPANOL, N-	71238			Y
51129	PROPANOL-2-METHOXY-ACETATE, 1-	70657704			Y
51512	PROPARGYL ALCOHOL	107197		Y	Y
59867	PROPASOL				Y
54022	PROPIOLACTONE, BETA-	57578	Y	Y	Y
51721	PROPIONALDEHYDE	123386	Y	Y	Y
58291	PROPIONAMIDE	79050			Y
51220	PROPIONIC ACID	79094			Y
58481	PROPIONIC ANHYDRIDE	123626			Y
58290	PROPIONITRILE	107120			Y
52819	PROPOXUR (BAYGON)	114261	Y	Y	Y
51455	PROPROXYETHANOL, 2-	2807309	Y	Y	Y
51454	PROPROXYPROPANOL	30136131			Y
52630	PROPYL ACETATE	109604			Y
52831	PROPYL CELLOSOLVE	2807309	Y		Y
53335	PROPYL CHLORIDE, N-	540545			Y
52791	PROPYL FORMATE, N-	110747			Y
54015	PROPYL KETONE, DI-N-	123193			Y
58701	PROPYL MERCAPTAN	107039			Y
58293	PROPYL NITRATE, N-	627134			Y
52796	PROPYL PROPIONATE	106365			Y
52320	PROPYLAMINE, N-	107108			Y
55600	PROPYLENE	115071		Y	Y
51545	PROPYLENE CHLOROXYDRIN	78897			Y
53330	PROPYLENE DICHLORIDE	78875	Y	Y	Y
51472	PROPYLENE GLYCOL	57556			Y
52834	PROPYLENE GLYCOL MONOMETHYL ETHER	107982			Y
52836	PROPYLENE GLYCOL PHENYL ETHER	4169044			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
51488	PROPYLENE GLYCOL T-BUTYL ETHER	57018527		Y	Y
58480	PROPYLENE OXIDE	75569	Y	Y	Y
58292	PROPYLENEIMINE	75558	Y	Y	Y
14500	PROTACTINIUM—PA				
14510	PUMICE				
52478	PYRENE	129000			
11485	PYRETHRUM	8003347			
58300	PYRIDINE	110861		Y	Y
11312	PYRIDINE (2-CL-6-(3CLME))	1929824		Y	
58997	PYROLYSIS GASOLINE	68606100			Y
54055	PYRROLIDONE, 2-	616455			Y
51230	PYRUVIC ACID	127173			Y
52472	QUINOLINE	91225	Y	Y	Y
54290	QUINONE	106514	Y	Y	Y
59814	QUINTOZENE	82688	Y	Y	Y
20010	RADIONUCLIDES		Y		
14520	RADIUM—RA	7440144	Y		
59400	RAFFINATE	68514294			Y
14800	RARE EARTH MINERALS—U				
51681	RC SOLDER PYRO.PROD.				Y
59425	REDUCED CRUDE				Y
59450	REFORMATE	68514794			Y
59410	REFORMER FEED				Y
59230	RESIDUAL FUEL OIL				Y
14530	RHENIUM—RE				
14541	RHODIUM FUME AND DUST				
14540	RHODIUM—RH				
13144	RICE				
11380	RONNEL	299843			
13218	ROSIN				
11488	ROTENONE	83794	Y		
14550	RUBIDIUM—RB				
14560	RUTHENIUM—RU	7440188			
59812	SACCHARIN	81072		Y	Y
58565	SAFROLE	94597		Y	Y
11185	SALICYLIC ACID	69727			
14860	SAMARIUM—SM				
14570	SAND				
13045	SAWDUST				
14580	SCANDIUM—SC				
52622	SEC-AMYL ACETATE	626380			Y
52643	SEC-BUTYL ACETATE	105464			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
51580	SEC-BUTYL ALCOHOL	78922		Y	Y
53205	SEC-BUTYL CHLORIDE	78864			Y
52725	SEC-BUTYL CHLOROFORMATE	17462587			Y
52737	SEC-BUTYLBENZENE	135988			Y
51554	SEC-BUTYLPHENOL, O-	89725			Y
13164	SEED COATS				
14595	SELENIUM & COMPOUNDS		Y	Y	
14594	SELENIUM HEXAFLUORIDE	7783791	Y	Y	
70045	SELENIUM, GASEOUS	7782492	Y	Y	
14590	SELENIUM—SE	7782492	Y	Y	
70468	SILANE	7803625			
14601	SILICA OXIDE				
70460	SILICA, GAS—U				
14602	SILICA,CRYSTALLINE				
70625	SILICON TETRAFLOURIDE	7783611			
14603	SILICONE CARBIDE				
14600	SILICON—SI				
14611	SILVER COMPOUNDS			Y	
14610	SILVER—AG	7440224		Y	
14615	SOAPSTONE > 1% CRYSTALLINES				
14623	SODIUM ACETATE				
14621	SODIUM AZIDE	26628228		Y	
14633	SODIUM BISULFITE	7631905			
14639	SODIUM BOROHYDRIDE				
53447	SODIUM BUTYLNAPHTHALENE SULFONATE	25638179	Y		Y
14622	SODIUM CARBONATE—NA <sub>2</sub> CO <sub>3</sub>				
14625	SODIUM CHLORATE	7775099			
71001	SODIUM CRESOXIDE	34689468			
53448	SODIUM FLUOROACETATE	62748		Y	Y
53449	SODIUM FORMALDEHYDE BISULFITE	870724			Y
14636	SODIUM HYDROSULFIDE				
70485	SODIUM HYDROXIDE, GAS	1310732			
14630	SODIUM HYDROXIDE—NAOH				
70490	SODIUM HYPOCHLORITE	7681529			
71002	SODIUM METHYLDITHIOCARBAMATE, N-	137428		Y	
14631	SODIUM NITRITE			Y	
14635	SODIUM STEARATE	822162			
14638	SODIUM SULFATE (SOLUTION)				
14637	SODIUM SULFIDE				
58791	SODIUM SULFONATE				Y
14620	SODIUM—NA				
14640	SOIL & CLAY—U				

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
59015	SOLVENT REFINED HEAVY NAPHTHENIC...	64741964			Y
13225	SOYBEAN MEAL				
13230	SOYBEAN OIL				
13235	SOYBEAN PLANT MATERIAL (HULLS, ETC.)				
13220	SOYBEAN—U				
13250	SPICES—U				
13168	STARCH				
51240	STEARIC ACID	57114			Y
59360	STODDARD SOLVENT	8052413			Y
14653	STRONTIUM CHROMATE (1:1)	7789062	Y	Y	
14654	STRONTIUM SULFATE—SR <sub>SO<sub>4</sub></sub>				
14650	STRONTIUM—SR	7440246			
58350	STRYCHNINE	57249		Y	Y
52480	STYRENE	100425	Y	Y	Y
52479	STYRENE OXIDE	96093	Y	Y	Y
52483	SUBSTITUTED STYRENES				Y
11220	SUBTILISINS	1395217			
51722	SUCCINALDEHYDE	638379			Y
52712	SUCCINIC ACID, DIMETHYL ESTER	106650			Y
58211	SUCCINONITRILE	110612			Y
13270	SUGAR BEET PULP				
13280	SUGAR CANE (BAGASSE)				
13260	SUGAR—U				
14641	SULFATES—U				
58750	SULFIDES—U				Y
51467	SULFOLANE	126330			Y
70510	SULFUR DIOXIDE	7446095			
70511	SULFUR DIOXIDE (LIQUID)			Y	
70600	SULFUR HALIDES—U				
70615	SULFUR HEXAFLUORIDE	2551624			
14663	SULFUR MONOCHLORIDE	10025679			
70500	SULFUR OXIDE—U				
14667	SULFUR PENTAFLUORIDE	5714227			
70616	SULFUR TETRAFLUORIDE	7783600			
70515	SULFUR TRIOXIDE	7446119			
11175	SULFURIC ACID	7664939		Y	
70516	SULFURIC ACID (VAPOR)			Y	
51561	SULFURIZED ALKYL PHENOL				Y
14660	SULFUR—S	7704349			
71115	SULFURYL FLUORIDE	2699798		Y	
52264	SWEETENED MIDDLE DISTILLATE	64741862			Y
14670	TALC	14807966			

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
13219	TALL OIL				
14680	TANTALUM—TA	7440257			
13290	TEA				
11385	TEDP	3689245			
70058	TELLURIUM HEXAFLUORIDE	7783804			
14690	TELLURIUM—TE				
11492	TEPP	107493			
14865	TERBIUM—TB				
51350	TEREPHTHALIC ACID	100210			Y
59868	TERGITAL				Y
59870	TERGITOL	139888			Y
52485	TERPENE	68153140			Y
52487	TERPHENYLS	26140603	Y		Y
51401	TERPINEOL	8000417			Y
51590	TERT BUTYL ALCOHOL	75650		Y	Y
52642	TERT-BUTYL ACETATE	540885			Y
53207	TERT-BUTYL CHLORIDE	507200			Y
15125	TERT-BUTYL CHROMATE	1189851	Y	Y	
52736	TERT-BUTYLBENZENE	98066			Y
58742	TERT-BUTYLPEROXY-2-ETHYLHEXANOATE	3006824			Y
58745	TERT-BUTYLPEROXYISOPROPYL- ISOPHENYL...	96319550			Y
58743	TERT-BUTYLPEROXYNEODECANOATE	26748414			Y
52498	TERT-BUTYLTOLUENE, P-	98511			Y
52209	TERTIARY BUTYL AMINE	75649			Y
53395	TETRACHLORDIFLUOROETHN	28605745			Y
52432	TETRACHLOROBENZENES	12408105			Y
59856	TETRACHLORODIBENZO-P-DIOXIN, 2,3,7,8-	1746016	Y	Y	Y
53391	TETRACHLOROETHANE, 1,1,1,2-	630206		Y	Y
53390	TETRACHLOROETHANE, 1,1,2,2-	79345	Y	Y	Y
52466	TETRACHLORONAPHTHALENE	1335882	Y		Y
50554	TETRACHLOROVINPHOS	961115		Y	Y
51565	TETRACHLORPHENO, 2,3,4,6-	58902		Y	Y
58050	TETRAETHYL LEAD	78002	Y	Y	
51483	TETRAETHYLENE GLYCOL	112607			Y
58051	TETRAETHYLENEPENTAMINE	112572			Y
53104	TETRAFLUROETHANE, 1,1,1,2-	811972			
53289	TETRAFLUROETHANE, 1,1,2,2-	359353			
58500	TETRAHYDROFURAN	109999			Y
52305	TETRAHYDRONAPHTHALENE, 1,2,3,4-	119642			Y
58713	TETRAMETHYL BENZENE (ALL ISOMERS)	25619607			Y
58100	TETRAMETHYL LEAD	75741	Y	Y	
58375	TETRAMETHYLSUCCINONITRI	3333526			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
58376	TETRANITROMETHANE	509148			Y
11980	TETRYL	479458			
14701	THALLIUM COMPOUNDS			Y	
14700	THALLIUM—TL			Y	
15208	THIADIAZOLE	289065			
59808	THIOACETAMIDE	62555		Y	Y
51536	THIOBIS, 4,4- (6-TERT-BUTYL-M-CRESOL)	96695	Y		Y
59840	THIODIANILINE, 4,4-	139651	Y	Y	Y
71500	THIONYL CHLORIDE	7719097			
58605	THIOPHENE	110021			Y
58377	THIOUREA	62566		Y	Y
11895	THIRAM	137268		Y	
59853	THORIUM DIOXIDE	1314201		Y	Y
14710	THORIUM—TH	7440291			
14870	THULIUM—TM				
14720	TIN—SN	7440315			
14735	TITANIUM DIOXIDE	13463677			
14737	TITANIUM TETRACHLORIDE	7550450	Y	Y	
14730	TITANIUM—TI	7440326			
11990	TOLUAMIDE (3,5-DINITRO-O)				
52490	TOLUENE	108883	Y	Y	Y
52508	TOLUENE DIISOCYANATE (MIXED ISOMERS)	26471625		Y	Y
52506	TOLUENE DIISOCYANATE, 2,4-	584849	Y	Y	Y
52505	TOLUENE DIISOCYANATE—TD	91087		Y	Y
51110	TOLUENE SULFONIC ACID, P-	104154			Y
52507	TOLUENE-2, 6-DIISOCYANATE	91087		Y	Y
52375	TOLUENE-2,4-DIAMINE	95807	Y	Y	Y
59847	TOLUIDINE HYDROCHLORIDE, O-	636215		Y	Y
52499	TOLUIDINE, O-	95534	Y	Y	Y
39999	TOTAL PM <sub>2.5</sub> PARTICULATE				
70495	TOTAL REDUCED SULFUR—TRS				
59862	TOXAPHENE	8001352	Y	Y	Y
55179	TRANS-2-BUTENE	624646			Y
55528	TRANS-2-PENTENE	646048			Y
14045	TREMOLITE	14567738	Y	Y	
52266	TRI(DIMETHYLAMINOMETHYL)PHENOL ...	90722			Y
59810	TRIAZIQUONE	68768		Y	Y
58840	TRIBUTYL PHOSPHATE	126738			Y
15020	TRIBUTYL TIN COMPOUNDS	688733		Y	
59801	TRICHLORFON	52686		Y	Y
53283	TRICHLORO-2,2,2-TRIFLUOROETHANE, 1...	354585			Y
51130	TRICHLOROACETIC ACID	76039			Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
52427	TRICHLOROBENZENE, 1,2,4-	120821	Y	Y	Y
52425	TRICHLOROBENZENES (ALL)	12002481		Y	Y
53208	TRICHLOROBUTANE, 1,2,3-	18338404			Y
53290	TRICHLOROETHANE, 1,1,1-	71556	Y	Y	
53291	TRICHLOROETHANE, 1,1,2-	79005	Y	Y	Y
55650	TRICHLOROETHYLENE	79016	Y	Y	Y
52467	TRICHLORONAPHTHALENE	1321659	Y		Y
51566	TRICHLOROPHENOL, 2,4,5-	95954	Y	Y	Y
51567	TRICHLOROPHENOL, 2,4,6-	88062	Y	Y	Y
53340	TRICHLOROPROPANE	25735299			Y
55700	TRICHLOROPROPYLENE	67664942			Y
53292	TRICHLOROTRIFLUOROETHANE	76131		Y	
58845	TRICRESYL PHOSPHATE	1330785	Y		Y
15130	TRICYCLOHEXYLTINHYDROXIDE	13121705			
52282	TRIETHANOLAMINE	102716			Y
58814	TRIETHOXYMETHYLSILANE	2031676			Y
58830	TRIETHYL PHOSPHATE	78400			Y
15021	TRIETHYL TIN COMPOUNDS	997502		Y	
52330	TRIETHYLAMINE	121448	Y	Y	Y
51482	TRIETHYLENE GLYCOL	112276			Y
52258	TRIETHYLENEDIAMINE	280579			Y
52335	TRIETHYLENETETRAMINE	112243			Y
53394	TRIFLUOROETHANE, 1,1,1-	420462			Y
53221	TRIFLUOROMETHANE	75467			
53527	TRIFLUOROMONOBROMOMETHANE	75638		Y	Y
59855	TRIFLURALIN	1582098	Y	Y	Y
51432	TRIGLYCOL MONOBUTYL ETHER	143226	Y	Y	Y
56555	TRIMETHOXYETHANE, 1,1,1-	1445450			Y
52428	TRIMETHYL BENZENE	25551137			Y
52417	TRIMETHYL BENZENE, 1,2,3-	526738			Y
52416	TRIMETHYL BENZENE, 1,2,4-	95636		Y	Y
52418	TRIMETHYL BENZENE, 1,3,5-	108678			Y
56677	TRIMETHYL PHOSPHATE	512561			
56678	TRIMETHYL PHOSPHITE	121459			
15022	TRIMETHYL TIN COMPOUNDS	17272570		Y	
56676	TRIMETHYL-1,3-PENTANEDIOL, 2,2,4- MONO...	25265774			Y
52764	TRIMETHYL-2,2,4-PENTADIOL, 1,1,3-	144194			Y
52340	TRIMETHYLAMINE	75503			Y
52419	TRIMETHYLNONAHOL, 4,2,6,8-	123171			Y
56609	TRIMETHYLPENTANE, 2,2,3-	564023			Y
56610	TRIMETHYLPENTANE, 2,2,4-	540841	Y		Y
56751	TRIMETHYLPENTANE, 2,2,4-	540841	Y	Y	Y

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
56605	TRIMETHYLPENTANE, 2,3,4-	565753			Y
58815	TRIMETHYLSILANOL	1066406			Y
11989	TRINITROTOLUENE	118967			
58520	TRIOXANE	110883			Y
58846	TRIPHENYL PHOSPHATE	115866	Y		Y
59837	TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE	126727		Y	Y
14632	TRISODIUM PHOSPHATE (TSP)				
14740	TUNGSTEN—W				
13295	TURPENTINE	8006642			
59475	UDEX CHARGE				Y
56683	UNDECANE	1120214			Y
14750	URANIUM	7440611	Y		
58378	UREA	57136			Y
58374	UREA FORMALDEHYDE	9011056		Y	Y
11050	URETHANE	51796	Y	Y	
59490	VACUUM BOTTOMS				Y
51740	VALERALDEHYDE	110623			Y
51360	VALERIC ACID	109524		Y	Y
14760	VANADIUM	7440622		Y	
58921	VAPONA	62737	Y	Y	Y
14770	VERMICULITE	1318009			
52891	VINYL ACETATE	108054	Y	Y	Y
51461	VINYL ALCOHOL	557755			Y
51463	VINYL BROMIDE	593602	Y	Y	Y
55800	VINYL CHLORIDE	75014	Y	Y	Y
58380	VINYL CYANIDE	107131	Y	Y	Y
55530	VINYL CYCLOHEXENE	100403			Y
52787	VINYL PROPIONATE	105384			Y
52484	VINYL TOLUENE	25013154			Y
54056	VINYL-2-PYRROLIDONE, N-	88120			Y
52790	VINYLACETYLENE	689974			Y
58550	VINYLCYCLOHEXANE DIOXIDE	106876			Y
55850	VINYLDENE CHLORIDE	75354	Y	Y	Y
59871	VM&P NAPHTHA	64742898			Y
59000	VOC GAS MIXTURE—U				Y
58400	VOC OXYGENATED—U				Y
58410	VOC SURFACTANTS—U				Y
58000	VOC WITH LEAD—U		Y		Y
58200	VOC WITH NITROGEN—U				Y
50001	VOC—UNCLASSIFIED				Y
14775	WELDING FUMES				
13146	WHEAT				

## Contaminant Codes

Contam Code	Contaminant Name	CAS No.	HAP	TOXIC	VOC
12310	WHEY				
13297	WOOD DUST (NONALLERGENIC)				
52514	XYLENE, O-	95476	Y	Y	Y
52516	XYLENE, P-	106423	Y	Y	Y
52510	XYLENE—U	1330207	Y	Y	Y
52518	XYLENOL, 3,4-	95658			Y
52519	XYLENOL, 3,5-	108689			Y
59816	XYLIDINE, 2,6-	87627		Y	Y
13300	YEAST				
14875	YTTERBIUM—YB				
14782	ZINC CHLORIDE—ZnCl <sub>2</sub>			Y	
14785	ZINC COMPOUNDS			Y	
14783	ZINC DIAKYLDITHIOPHOSPHATE			Y	
14784	ZINC OXIDE—ZNO			Y	
15190	ZINC STEARATE	557051		Y	
14780	ZINC—ZN	7440666		Y	
59863	ZINEB	12122677		Y	Y
14795	ZIRCONIUM SILICATE	14940682			
14790	ZIRCONIUM—ZR	7440677			

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## **Appendix II—Abatement Codes**

This appendix contains the abatement codes used to complete the Abatement Device Information form. The codes are listed alphabetically by device description.

**AB Code:** The numeric code of the abatement device

**Abatement Device:** A text description of the device



<b>AB Code</b>	<b>Abatement Device</b>
401	Absorption Tower, Gravity Spray Tower
406	Absorption Tower, Packed Bed
402	Absorption Tower, Plate—Bubble Cap
405	Absorption Tower, Plate—Floating Cap
404	Absorption Tower, Plate—Parallel Bars
403	Absorption Tower, Plate—Perforated (Sieve)
48	Activated Carbon Adsorption
460	Adsorption—Continuous
461	Adsorption—Continuous, Activated Carbon
450	Adsorption—Fixed Bed
451	Adsorption—Fixed Bed, Activated Carbon
452	Adsorption—Fixed Bed, Alumina
453	Adsorption—Fixed Bed, Bauxite
454	Adsorption—Fixed Bed, Bone Char
455	Adsorption—Fixed Bed, Fuller's Earth
456	Adsorption—Fixed Bed, Magnesia
457	Adsorption—Fixed Bed, Silica Gel
458	Adsorption—Fixed Bed, Strontium Sulfate
500	Afterburner
503	Afterburner, Boiler Or Heater (With Or Without Heat Recovery)
502	Afterburner, Catalytic
501	Afterburner, Direct Flame
68	Alkaline Fly Ash Scrubbing
40	Alkalized Alumina
400	Absorption Tower
31	Carbon Injection
39	Catalytic Oxidation—Flue Gas Desulfurization
631	Catalytic Reduction
7	Centrifugal Collector—High Efficiency
9	Centrifugal Collector—Low Efficiency
8	Centrifugal Collector—Medium Efficiency
630	Chemical Alteration
620	Chemical Oxidation
624	Chemical Oxidation, Air Oxidation
622	Chemical Oxidation, Chlorine
623	Chemical Oxidation, Hypochlorite
625	Chemical Oxidation, Oxidation Using Oxygen
621	Chemical Oxidation, Permanganate

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<b>AB Code</b>	<b>Abatement Device</b>
660	Claus Tail Gas Cleanup
664	Claus Tail Gas Cleanup, Clean Air
661	Claus Tail Gas Cleanup, IFP
662	Claus Tail Gas Cleanup, Scot
663	Claus Tail Gas Cleanup, Stretford
665	Claus Tail Gas Cleanup, Sulfreen
667	Claus Tail Gas Cleanup, Takahak
666	Claus Tail Gas Cleanup, Wellman-Bevon
613	CO Removal, Catalytic Thermal Reduction
612	CO Removal, CO Boiler
21	Direct Flame Afterburner
36	Dual Alkali Scrubbing
350	Electrostatic Precipitation
10	Electrostatic Precipitator—High Efficiency
12	Electrostatic Precipitator—Low Efficiency
11	Electrostatic Precipitator—Medium Efficiency
351	ESP, Single Stage, Wire/Plate—Dry
352	ESP, Single Stage, Wire/Plate—Wet
353	ESP, Single Stage, Wire/Tube—Dry
354	ESP, Single Stage, Wire/Tube—Wet
355	ESP, Two Stage (Electronic Air Cleaner)
16	Fabric Filter—High Temperature
18	Fabric Filter—Low Temperature
17	Fabric Filter—Medium Temperature
300	Filter—Fabric (Baghouse)
302	Filter—Fabric (Baghouse), Auxiliary Air Shaking
301	Filter—Fabric (Baghouse), Mechanical Shaking
305	Filter—Fabric (Baghouse), Pressure Jet
304	Filter—Fabric (Baghouse), Pulse Jet (Venturi)
307	Filter—Fabric (Baghouse), Reverse Air Flow
306	Filter—Fabric (Baghouse), Reverse Jet (Ring)
303	Filter—Fabric (Baghouse), Sonic Cleaning
310	Filter—Fixed Panel
314	Filter—Fixed Panel, Aggregate Bed (Sand, etc.)
311	Filter—Fixed Panel, Fibrous Mat And Paint Boot
315	Filter—Fixed Panel, Fluidized Bed
312	Filter—Fixed Panel, Metal Mesh Mat
313	Filter—Fixed Panel, Paper Mat

<b>AB Code</b>	<b>Abatement Device</b>
316	Filter—Fixed Panel, Sintered Metal Filter
320	Filter—Roll Type
322	Filter—Roll Type, Self-Cleaning
321	Filter—Roll Type, Throw-Away Fibrous Mat
23	Flare, Flaring
510	Flare—Waste Gas
515	Flare—Waste Gas, Burning Pit
511	Flare—Waste Gas, Elevated (> 30Ft.)
512	Flare—Waste Gas, Elevated (> 30Ft.) Smokeless
513	Flare—Waste Gas, Ground (< 30Ft.)
514	Flare—Waste Gas, Ground (< 30Ft.) Smokeless
26	Flue Gas Recirculation
4	Gravity Collector—High Efficiency
6	Gravity Collector—Low Efficiency
5	Gravity Collector—Medium Efficiency
640	Hydrogen Sulfide Control
641	Hydrogen Sulfide Control, Aqueous Amine Process
645	Hydrogen Sulfide Control, Claus Process
644	Hydrogen Sulfide Control, Iron Oxide
643	Hydrogen Sulfide Control, Potassium Carbonate
642	Hydrogen Sulfide Control, Seaboard Process
540	Incinerator—Municipal Waste
543	Incinerator—Municipal Waste, Multi-Chamber (Controlled Air)
542	Incinerator—Municipal Waste, Multi-Chamber (Conventional)
541	Incinerator—Municipal Waste, Single Chamber
550	Incinerator—Pathological Waste
553	Incinerator—Pathological Waste, Multi-Chamber (Controlled Air)
552	Incinerator—Pathological Waste, Multi-Chamber (Conventional)
551	Incinerator—Pathological Waste, Single Chamber
560	Incinerator—Scrap Metal
563	Incinerator—Scrap Metal (Furnaces), Multi-Chamber (Controlled Air)
562	Incinerator—Scrap Metal (Furnaces), Multi-Chamber(Conventional)
561	Incinerator—Scrap Metal (Furnaces), Single Chamber
520	Incinerator—Waste Gas
523	Incinerator—Waste Gas, Multi-Chamber (Controlled Air)
522	Incinerator—Waste Gas, Multi-Chamber (Conventional)
521	Incinerator—Waste Gas, Single Chamber-Thermal Oxidizer
530	Incinerator—Waste Liquid

Emissions Inventory Forms and Instructions

AB Code	Abatement Device
533	Incinerator—Waste Liquid, Multi-Chamber (Controlled Air)
532	Incinerator—Waste Liquid, Multi-Chamber (Conventional)
531	Incinerator—Waste Liquid, Single Chamber (Thermal Oxidize)
570	Incinerator—Wire (Non-PVC)
573	Incinerator—Wire (Non-PVC) Multi-Chamber (Controlled Air)
572	Incinerator—Wire (Non-PVC) Multi-Chamber (Conventional)
571	Incinerator—Wire (Non-PVC) Single Chamber
580	Incinerator—Wire (PVC)
583	Incinerator—Wire (PVC), Multi-Chamber (Controlled Air)
582	Incinerator—Wire (PVC), Multi-Chamber (Conventional)
581	Incinerator—Wire (PVC), Single Chamber
590	Incinerator—Wood Waste
593	Incinerator—Wood Waste, Multi-Chamber (Controlled Air)
592	Incinerator—Wood Waste, Multi-Chamber (Conventional)
591	Incinerator—Wood Waste, Single Chamber
594	Incinerator—Wood Waste, Teepee
595	Incinerator—Wood Waste, Trench (Air Curtain)
150	Inertial Collector—Dry, Centrifugal-Dynamic Collector
140	Inertial Collector—Dry, Centrifugal-Fixed Scroll
130	Inertial Collector—Dry, Centrifugal—Multiple Cyclone
120	Inertial Collector—Dry, Centrifugal—Single Cyclone
100	Inertial Collector—Dry, Gravity
101	Inertial Collector—Dry, Gravity, Balloon Duct
104	Inertial Collector—Dry, Gravity, Grit Arrestor
103	Inertial Collector—Dry, Gravity, Multi-Tray (Howard Settling Chamber)
102	Inertial Collector—Dry, Gravity, Settling Chamber
110	Inertial Collector—Dry, Momentum
111	Inertial Collector—Dry, Momentum, Baffle Chamber
115	Inertial Collector—Dry, Momentum, Impingement Collector
113	Inertial Collector—Dry, Momentum, Louvre-Type Collector
114	Inertial Collector—Dry, Momentum, Shutter-Type Collector
112	Inertial Collector—Dry, Momentum, Venturi Baffle Chamber
250	Inertial Collector—Wet, Centrifugal—Dynamic Collector
251	Inertial Collector—Wet, Centrifugal—Dynamic Collector, Rotoclone
240	Inertial Collector—Wet, Centrifugal—Fixed, Scroll
230	Inertial Collector—Wet, Centrifugal—Multiple Cyclone
220	Inertial Collector—Wet, Centrifugal-Single Cyclone
200	Inertial Collector—Wet, Gravity

<b>AB Code</b>	<b>Abatement Device</b>
201	Inertial Collector—Wet, Gravity, Balloon Duct
204	Inertial Collector—Wet, Gravity, Grit Arrestor
203	Inertial Collector—Wet, Gravity, Multi-Tray (Howard Settling Chamber)
202	Inertial Collector—Wet, Gravity, Settling Chamber
210	Inertial Collector—Wet, Momentum
211	Inertial Collector—Wet, Momentum, Baffle Chamber
215	Inertial Collector—Wet, Momentum, Impingement Collector
213	Inertial Collector—Wet, Momentum, Louvre-Type Collector
214	Inertial Collector—Wet, Momentum, Shutter-Type Collector
212	Inertial Collector—Wet, Momentum, Venturi Baffle Chamber
224	Inertial Collector—Wet, Reverse Flow—High Efficiency
800	Leak Detection And Repair Program
49	Liquid Filtration System
29	Low-Excess-Air Firing
35	Magnesium Oxide Scrubbing
900	Misc. Method of Control
902	Misc. Method of Control, Closed Loop (SCS)
906	Misc. Method of Control, Floating Roof
999	Misc. Method of Control, Misc Unclassified
907	Misc. Method of Control, Misc Water Sprays
903	Misc. Method of Control, Odor Masking Agent
905	Misc. Method of Control, Surface Filming Agent
901	Misc. Method of Control, Tall Stack
904	Misc. Method of Control, Temperature Control
14	Mist Eliminator—High Velocity
15	Mist Eliminator—Low Velocity
24	Modified Furnace Or Burner Design
66	Molecular Sieve
98	Moving Bed Dry Scrubber
133	Multi Cyclone—Dry, Reverse Flow (< 9 In.)
134	Multi Cyclone—Dry, Reverse Flow (> 9 In.)
131	Multi Cyclone—Dry, Straight Flow—Fixed Impinger
132	Multi Cyclone—Dry, Straight Flow—Moving Impinger
233	Multi Cyclone—Wet, Reverse Flow (< 9 In.)
234	Multi Cyclone—Wet, Reverse Flow (> 9 In.)
231	Multi Cyclone—Wet, Straight Flow—Fixed Impinger
232	Multi Cyclone—Wet, Straight Flow—Moving Impinger
46	Process Change

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AB Code	Abatement Device
54	Process Enclosed
60	Process Gas Recovery
273	Scrubber, Disintegrator
275	Scrubber, Hot Water Hydro-Jet
271	Scrubber, Jet Ejector Type
276	Scrubber, Paint Booth (Water Curtain)
272	Scrubber, Self-Induced Spray
274	Scrubber, Steam Hydro-jet
260	Scrubber—High Energy Venturi Cyclone
263	Scrubber—High Energy Venturi, High Efficiency (> 30 In.)
261	Scrubber—High Energy Venturi, Low Efficiency (< 15 In.)
262	Scrubber—High Energy Venturi, Medium Efficiency (15–30 In.)
270	Scrubber—Misc. Types
646	Selector Process
124	Single Cyclone—Dry, Reverse Flow—High Efficiency
123	Single Cyclone—Dry, Reverse Flow—Low Efficiency
121	Single Cyclone—Dry, Straight Flow—Fixed Impinger
122	Single Cyclone—Dry, Straight Flow—Moving Impinger
223	Single Cyclone—Wet, Reverse Flow—Low Efficiency
221	Single Cyclone—Wet, Straight Flow—Fixed Impinger
222	Single Cyclone—Wet, Straight Flow—Moving Impinger
611	SO <sub>2</sub> Removal, Ammonia/Double Alkali
609	SO <sub>2</sub> Removal, Cat-Ox process (Monsanto)
608	SO <sub>2</sub> Removal, Citrate Process (Bureau of Mines)
602	SO <sub>2</sub> Removal, Cominco Absorption Process
601	SO <sub>2</sub> Removal, Contact Sulfuric Acid Process
603	SO <sub>2</sub> Removal, DMA Absorption Process
607	SO <sub>2</sub> Removal, Elemental Sulfur Reduction
610	SO <sub>2</sub> Removal, Kiyoura-Ito (Japan)
606	SO <sub>2</sub> Removal, Limestone Dry-Scrubbing
605	SO <sub>2</sub> Removal, Limestone Wet-Scrubbing
604	SO <sub>2</sub> Removal, Wellman-Lord Process
69	Sodium Carbonate Scrubbing
70	Sodium-Alkali Scrubbing
52	Spray Tower
25	Staged Combustion
28	Steam or Water Injection
600	Sulfur Dioxide Removal

<b>AB Code</b>	<b>Abatement Device</b>
45	Sulfur Plant
650	Sulfur Recovery Plant
651	Sulfur Recovery Plant, Claus-1 Converter
652	Sulfur Recovery Plant, Claus-2 Converter
653	Sulfur Recovery Plant, Claus-3 Converter
43	Sulfuric Acid Plant—Contact Process
51	Tray-Type Gas Adsorption Column
30	Use of Fuel With Low Nitrogen Content
410	Vapor Condenser
412	Vapor Condenser, Contact
411	Vapor Condenser, Surface
670	Vapor Recovery
47	Vapor Recovery System
53	Venturi Scrubber
67	Wet Lime Slurry Scrubbing
3	Wet Scrubber—Low Efficiency
2	Wet Scrubber—Medium Efficiency

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# ABBREVIATIONS

AEIR	annual emissions inventory report
AEIU	annual emissions inventory update
AMS	area and mobile source
API	American Petroleum Institute
AVO	aural/visual/olfactory
Btu	British thermal unit(s)
CAS	Chemical Abstracts Service
CEMS	continuous emissions monitoring system(s)
CFR	Code of Federal Regulations (40 CFR <i>xx</i> = Title 40, Code of Federal Regulations, section <i>xx</i> )
CIN	control identification number
Cl <sub>2</sub>	chlorine
CEO	Chief Engineer's Office
CHP	combined heat and power
CO	carbon monoxide
CFR	Code of Federal Regulations
EAS	Emissions Assessment Section
EE	emissions events
EGU	electric generating unit
EI	emissions inventory
EIQ	emissions inventory questionnaire
EPA	United States Environmental Protection Agency
EPN	emission point number
FCAA	federal Clean Air Act
FCCU	fluid catalytic cracking unit
GOR	gas/oil ratio
H <sub>2</sub> S	hydrogen sulfide
HAP	hazardous air pollutant
HCN	hydrogen cyanide
HF	hydrogen fluoride
HRSG	heat recovery steam generator
HRVOC	highly reactive volatile organic compound

HVAC	heating, ventilation, and air conditioning
IEI	initial emissions inventory
lb(s)	pound(s)
LDAR	leak detection and repair
MM	million
MSS	maintenance, startup, and shutdown
NAAQS	national ambient air quality standards
NAD83	North American Datum of 1983
NH <sub>3</sub>	ammonia
NSCR	nonselective catalytic reduction
NO <sub>x</sub>	oxides of nitrogen
Pb	lead
PEMS	predictive emissions monitoring system(s)
PM	particulate matter
PM <sub>2.5</sub>	particulate matter no larger than 2.5 microns in diameter
PM <sub>10</sub>	particulate matter no larger than 10 microns in diameter
ppd	pounds per day
ppm	parts per million
psi	pounds per square inch
psia	pounds per square inch, absolute
psig	pounds per square inch, gauge
RATA	relative accuracy test audit
RN	regulated entity reference number
SIC	Standard Industrial Classification
SCC	source classification code
SO <sub>2</sub>	sulfur dioxide
SOCMI	synthetic organic chemical manufacturing industry
SMSS	scheduled maintenance, startup, and shutdown
SRU	sulfur recovery unit
STARS	State of Texas Air Reporting System
STEERS	State of Texas Environmental Electronic Reporting System
TAC	Texas Administrative Code (30 TAC <i>xx</i> = Title 30, Texas Administrative Code, Section <i>xx</i> )
TCAA	Texas Clean Air Act

TCEQ	Texas Commission on Environmental Quality
THSC	Texas Health and Safety Code
TOC	total organic carbon
TRI	Toxics Release Inventory
tpy	tons per year
—u	unclassified
UTM	Universal Transverse Mercator
VOC	volatile organic compound
VRU	vapor recovery unit



# GLOSSARY

The definitions in this glossary are intended to assist in understanding matters related to the annual emissions inventory. **Nothing in this glossary supersedes any information in any state or federal law, rule, or regulation. In the case of any discrepancy between information herein vs. information in a state or federal law, rule, or regulation, the law, rule, or regulation takes precedence.**

**abatement code**—A numeric code that identifies an abatement device. A list of abatement codes is available in Appendix II of this publication.

**abatement device**—A piece of equipment or recognized operation that limits, controls, or abates emissions of certain contaminants associated with certain processes. Examples include baghouses, flares, scrubbers, condensers, vapor recovery units, and component fugitive Inspection and Maintenance programs. Synonymous with *control device*.

**account**—See Title 30, Texas Administrative Code (TAC), Section 101.1. *For sources where a permit is required under 30 TAC Chapter 122 (Federal Operating Permits)*, all sources aggregated as a site. *For all other sources*, any combination of sources under common ownership or control and located on one or more properties that are contiguous, or contiguous except for intervening roads, railroads, rights-of-way, waterways, or similar divisions.

**affected county**—Any county designed as an affected county under Texas Health and Safety Code 386.001.

**API gravity**—The weight per unit volume of hydrocarbon liquids as measured by a system recommended by the American Petroleum Institute:

$$API\ gravity = \frac{141.5}{Specific\ Gravity} \times 131.5$$

**attainment county**—A county where levels of criteria air pollutants meet the national ambient air quality standards for the pollutants. Attainment areas are defined using federal pollutant limits set by the EPA. Refer to FCAA 107(d) for further explanations of “nonattainment” and “attainment” designations. Compare *nonattainment county*.

**Chemical Abstract Service (CAS) number**—A unique number assigned to a substance. Although the EAS identifies each substance with a *contaminant code* rather than with its CAS number, the CAS number should be included when adding a new contaminant to the emissions inventory. This additional information will be used for quality assurance.

**condensate**—A liquid hydrocarbon with an API gravity greater than 40° API at 60° F (and a specific gravity less than 0.8251).

**contaminant**—A substance emitted into the air.

**contaminant code**—A contaminant’s five-digit identifying code. A list of contaminant codes is available in Appendix I of this publication.

**control device**—See *abatement device*.

**control identification number (CIN)**—A label that uniquely identifies an abatement device; limited to 10 alphanumeric characters. Please note that no two separate abatement devices within an emissions inventory may share the same CIN.

**electric generating unit (EGU)**—For emissions inventory purposes, an EGU is defined as a boiler, auxiliary steam boiler, I.C. engine, or stationary gas turbine (including duct burners used in turbine exhaust ducts) that generates electric energy for compensation.

**emissions**—Air contaminants generated by a facility. See also *contaminant*.

**Emissions Assessment Section (EAS)**—The section of the TCEQ’s Chief Engineer’s Office responsible for the emissions inventory process.

**emissions event**—Any upset event or unscheduled maintenance, startup, or shutdown activity from a common cause that results in unauthorized emissions of air contaminants from one or more points at a regulated entity.

**emissions inventory forms**—The forms used to add new structural information to an EI or to supply material usage data. Blank forms, as well as the instructions for completing the forms, are available in this publication.

**emissions inventory questionnaire (EIQ)** —A computer printout that shows an site’s self-reported data, including, but not limited to, account information, contact information, process structural data, facility identification data, control device data, emission point data, and path emissions for a given calendar year.

**emissions inventory structure**—The way that a site’s facilities, abatement devices, and emission points are represented in the emissions inventory. Formerly *account structure*.

**emission point**—The geographical location (point) where emissions enter the air. An emission point is described by its group, profile and characteristics. Each emission point in the emissions inventory is uniquely identified by an *emission point number*.

**emission point number (EPN)**—A label that uniquely identifies a given emission point; limited to 10 characters. Please note that no two distinct emission points in an EI may share the same EPN. The EPNs on the EIQ must match those on the permit.

**excess opacity event**—An event where an opacity reading meets or exceeds 15 additional percentage points above an applicable opacity limit, averaged over a six-minute period.

**expected maximum capacity**—The projected greatest capacity of a facility based on its physical and operational design or configuration and planned operation.

**facility**—A unit, device, structure or area capable of generating air contaminants. Each facility in the emission inventory is uniquely named by a facility identification number (FIN). For purposes of Texas’ emissions inventory, “facility” does not refer to the entire site, but rather to an individual process unit at the site.

**facility identification number (FIN)**—A label that uniquely identifies a given facility; limited to 10 alphanumeric characters. Please note that no two distinct facilities may share the same FIN. The FINs on the EIQ must match those on the permit.

**gas/oil ratio (GOR)**—The relation of gas in cubic feet to the production of oil in barrels.

**hazardous air pollutant (HAP)**—An air pollutant designated as hazardous by the EPA. All HAPs should be listed individually (speciated) in the emissions inventory. HAPs are identified in federal Clean Air Act 112(b); the 1990 Act allows the EPA to modify the list as necessary. A current list can be found on the EPA’s Web site.

**highly reactive volatile organic compounds (HRVOCs)**—For emissions inventory purposes, the compounds ethylene, propylene, all isomers of butene, and 1,3-butadiene. This definition applies to all areas of the state, not just those counties subject to the HRVOC rules found in 30 TAC 115.

**Maximum Allowable Emissions Rate Table (MAERT)**—As defined in 30 TAC 116.10, a table included with a preconstruction permit issued under Chapter 116 that contains the allowable emission rates established by the permit for a facility.

**micron**—One-millionth of a meter. Also called *micrometer*.

**nonattainment county**—A defined region within the state designated by the EPA as failing to meet the national ambient air quality standard for a pollutant for which a standard exists. The EPA will designate the area as nonattainment under the provisions of FCAA 107(d). For the official list and boundaries of nonattainment areas, see 40 CFR Part 81 and pertinent *Federal Register* notices.

**nonreactive organic compounds**—A group of organic compounds that do not significantly contribute to ozone formation.

**non-reportable emissions event**—Any emissions event that in any 24-hour period does not result in an unauthorized emission from any emissions point equal to or in excess of the reportable quantity as defined in 30 TAC 101.1.

**non-reportable scheduled maintenance, startup, shutdown activity**—An SMSS activity that is recorded as required by 30 TAC 101.211.

**ozone season**—The period from May 1 through September 30 of a year as defined in Title 40, Code of Federal Regulations (40 CFR), Part 51.

**path**—Consists of a facility (tracked by its FIN) that generates emissions; an associated emission point (tracked by its EPN) where emissions enter the atmosphere; and any abatement devices (tracked by CINs) that control emissions. All paths must consist of at least a FIN and an EPN. If emissions produced at a FIN are not abated before entering the atmosphere at the associated EPN, then the path consists only of a FIN and an EPN. If, however, an abatement device controls emissions between the FIN and the EPN, then the associated path consists of a FIN, a CIN, and an EPN.

**percent max capacity**—The ratio of a facility’s annual operating capacity to the facility’s maximum capacity:

$$\text{Percent Max Capacity} = \frac{\text{Capacity}_{\text{actual}}}{\text{Capacity}_{\text{maximum}}} \times 100$$

For a definition of *Capacity<sub>maximum</sub>*, see *expected maximum capacity*.

**percent time offline (PTO)**—The ratio of the device’s downtime to the annual operating time.

$$PTO = \frac{\text{Hours Offline}}{\text{Annual Operating Hours}} \times 100$$

**particulate matter**—Any material, except uncombined water, that exists as a solid or liquid in the atmosphere or in a gas stream at standard conditions.

**PM<sub>2.5</sub>**—Portion of particulate matter with an aerodynamic diameter less than or equal to 2.5 microns. PM<sub>2.5</sub> is a subset of PM and PM<sub>10</sub>.

**PM<sub>10</sub>**—Portion of particulate matter with an aerodynamic diameter less than or equal to 10 microns. PM<sub>10</sub> is a subset of PM.

**potential to emit (PTE)**—The maximum capacity of a facility or stationary source to emit a pollutant under its physical and operational design. Any physical or enforceable operational limitation on the capacity of the facility or stationary source to emit a pollutant, including the use of air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, should be treated as part of its design only if the limitation or the effect it would have on emissions is federally enforceable. Secondary emissions, as defined in 40 CFR 51.165(a)(1)(viii), do not count in determining a stationary source's potential to emit.

**regulated entity**— As defined at 30 TAC 101.1, all regulated units, facilities, equipment, structures, or sources at one street address or location that are owned or operated by the same person. The term includes any property under common ownership or control identified in a permit or used in conjunction with the regulated activity at the same street address or location. Owners or operators of pipelines, gathering lines, and flowlines under common ownership or control in a particular county may be treated as a single regulated entity for purposes of assessment and regulation of emissions events.

**regulated entity reference number**—A number that the Central Registry assigns to a location where a TCEQ-regulated activity occurs.

**regulated pollutant**—Includes any VOC; any pollutant subject to the federal Clean Air Act, Section 111; any pollutant listed as a hazardous air pollutant under FCAA Section 112; each pollutant for which a national primary ambient air quality standard has been promulgated (including carbon monoxide); and any other air pollutant subject to requirements under TCEQ rules, regulations, permits, orders of the Commission, or court orders.

**reportable emissions event**—Any emissions event that, in any 24-hour period, results in an unauthorized emission from any emissions point equal to or in excess of the reportable quantity as defined in 30 TAC 101.1.

**reportable scheduled maintenance, startup, shutdown activity**—An SMSS activity as defined in 30 TAC 101.1, where prior notice and a final report is submitted as required by 30 TAC 101.211.

**scheduled maintenance, startup, shutdown (SMSS) activity**—An activity as defined in 30 TAC 101.1 that is used in reporting required by Section 101.211.

**site**—As stated in 30 TAC 122.10, the total of all stationary sources located on one or more contiguous or adjacent properties, which are under common control of the same person (or persons under common control). A research-and-development operation and a collocated manufacturing facility are considered a single site if they each have the same two-digit Major

Group Standard Industrial Classification (SIC) code (as described in the Standard Industrial Classification Manual, 1987) or if the research-and-development operation is a support facility for the manufacturing facility.

**site centroid**—The physical center of a site, represented in coordinate form (latitude and longitude or UTM). Formerly *account centroid*.

**source classification code (SCC)**—An eight-digit EPA-developed code that identifies a specific industrial process.

**speciation**—Categorization of the individual chemical substances, or species, within an emission.

**State of Texas Air Reporting System (STARS)**—The database where emissions inventory data are stored.

**structure**—The representation, in the TCEQ database, of the paths (formerly “links”) in an EI. EI structure should reflect the processes as shown on the site’s process flow diagram. For more information on proper EI structure, consult the appropriate sections of this book.

**Title V permit**—An operating permit required by Title V of the federal Clean Air Act as amended in 1990.

**toxic**—A chemical so designated by the EPA. Toxic chemicals are identified in 40 CFR 372.65.

**volatile organic compounds (VOCs)**—A group of compounds that photochemically react in the atmosphere to form ozone. The official definition is found in 40 CFR 51.100(s), except 51.100(s)(2–4), as amended on November 29, 2004 (69 *Federal Register* 69290).





# CONTACTING THE EAS

## Emissions Inventory Mailing Addresses

It is essential that you send your emissions inventory to the correct address. Failure to do so may delay or prevent delivery of your letter or package.

### USPS

Send correspondence via the United States Postal Service (e.g., overnight mail, priority mail, certified mail) to:

Emissions Inventory Data, MC 166  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

### Overnight Service

Send correspondence via special overnight carrier (for example, Airborne, FedEx, United Parcel Service) to:

Emissions Inventory Data, MC 166  
Texas Commission on Environmental Quality  
12100 Park 35 Circle, Bldg. E., Third Floor  
Austin, Texas 78753

## EAS Staff Mailing Addresses

To send mail to a particular EAS staff member, please use the appropriate address from above, replacing *Emissions Inventory Data, MC 166* with [staff member's name], *MC 164*.

## EAS Help Line

For general questions concerning forms or emissions calculation methodology, call the EAS Help Line at 512-239-1773.

## EAS Web Page

Information on emissions inventory trends, total criteria emissions for each site that reported an EI for the previous year, tools for completing an EI, this manual, and *2011 Emissions Inventory Guidelines* (publication number RG-360A/11) are available on the EAS Web page at <[www.tceq.texas.gov/goto/ieas](http://www.tceq.texas.gov/goto/ieas)>.