

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20057

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

### AIR CONTAMINANTS DATA

| Emission      | Source   | Air Contaminant | Emission Rates * |       |
|---------------|----------|-----------------|------------------|-------|
| Point No. (1) | Name (2) | Name (3)        | lb/hr            | TPY** |

#### APPLICABLE TO BOTH DMTA OPERATION AND HMP OPERATION

|         |                   |                 |       |      |
|---------|-------------------|-----------------|-------|------|
| K-1798  | Flare Stack       | PM              | 0.01  | 0.01 |
|         |                   | VOC             | 0.01  | 0.01 |
|         |                   | NO <sub>x</sub> | 0.02  | 0.07 |
|         |                   | SO <sub>2</sub> | 0.01  | 0.01 |
|         |                   | CO              | 0.02  | 0.07 |
| WB-1769 | HMP Scrubber      | VOC             | 0.1   | 0.03 |
|         |                   | Formaldehyde    | 0.01  | 0.01 |
|         |                   | MEK             | 0.01  | 0.01 |
|         |                   | MeOH            | 0.01  | 0.01 |
| PK-1901 | Cooling Tower (4) | VOC             | 0.40  | 1.76 |
| K-1970  | DMTA Generator    | VOC             | 1.59  | 0.02 |
|         |                   | PM              | 1.39  | 0.02 |
|         |                   | CO              | 4.24  | 0.06 |
|         |                   | SO <sub>2</sub> | 1.30  | 0.02 |
|         |                   | NO <sub>x</sub> | 19.65 | 0.26 |

#### DMTA OPERATION ONLY

|        |            |                  |      |      |
|--------|------------|------------------|------|------|
| K-1790 | Vent Stack | PM               | 0.01 | 0.01 |
|        |            | VOC              | 0.40 | 1.74 |
|        |            | NO <sub>x</sub>  | 2.06 | 9.05 |
|        |            | SO <sub>2</sub>  | 0.52 | 2.29 |
|        |            | CO               | 0.05 | 0.23 |
|        |            | Cl <sub>2</sub>  | 0.01 | 0.09 |
|        |            | HCl              | 0.10 | 0.44 |
|        |            | H <sub>2</sub> S | 0.01 | 0.02 |

|         |                              |                  |      |      |
|---------|------------------------------|------------------|------|------|
| S582F-1 | Storage Tank Farm (4)        | VOC              | 1.37 | 6.00 |
|         |                              | Cl <sub>2</sub>  | 0.04 | 0.19 |
|         |                              | H <sub>2</sub> S | 0.15 | 0.64 |
|         |                              | HCl              | 0.28 | 1.22 |
| S582F-2 | Process Unit Fugitives (4)   | VOC              | 0.88 | 3.86 |
| D-1868  | HCl/Cl <sub>2</sub> Scrubber | HCl              | 0.01 | 0.01 |

HMP OPERATION ONLY

|         |                              |                 |      |      |
|---------|------------------------------|-----------------|------|------|
| K-1790  | Vent Stack                   | VOC             | 0.44 | 0.77 |
|         |                              | NO <sub>x</sub> | 0.60 | 0.99 |
|         |                              | SO <sub>2</sub> | 0.01 | 0.01 |
|         |                              | CO              | 0.10 | 0.15 |
|         |                              | PM              | 0.01 | 0.01 |
|         |                              | Formaldehyde    | 0.02 | 0.03 |
|         |                              | MEK             | 0.01 | 0.01 |
|         |                              | MeOH            | 0.02 | 0.07 |
| D-1868  | HCl/Cl <sub>2</sub> Scrubber | VOC             | 0.01 | 0.01 |
| S582F-1 | Tank Farm Fugitives (4)      | VOC             | 0.16 | 0.30 |
|         |                              | Formaldehyde    | 0.01 | 0.03 |
|         |                              | MEK             | 0.01 | 0.01 |
|         |                              | MeOH            | 0.15 | 0.67 |
| S582F-2 | Process Unit Fugitives (4)   | VOC             | 0.42 | 1.84 |
|         |                              | Formaldehyde    | 0.01 | 0.03 |
|         |                              | MEK             | 0.01 | 0.01 |
|         |                              | MeOH            | 0.08 | 0.35 |
| S582F-3 | Wastewater Fugitives (4)     | Formaldehyde    | 0.01 | 0.01 |
|         |                              | MEK             | 0.01 | 0.01 |
|         |                              | MeOH            | 0.02 | 0.07 |

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AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2) | Air Contaminant<br>Name (3) | <u>Emission Rates *</u><br>lb/hr      TPY** |
|---------------------------|--------------------|-----------------------------|---|
|---------------------------|--------------------|-----------------------------|---|

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(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1. The VOC does not include hazardous air pollutants.

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

Cl<sub>2</sub> - chlorine

HCl - hydrochloric acid mist

H<sub>2</sub>S - hydrogen sulfide

MEK - methyl ethyl ketone

MeOH - methyl alcohol

(4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

5,160 hours per year (hrs/yr) for DMTA operation and 3,600 hrs/yr for HMP operation.

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

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|---------------------------|--------------------|-----------------------------|-------------------------|-------|
|                           |                    |                             | lb/hr                   | TPY** |

Dated April 11, 2006