

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2351A

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<br>Point No. (1) | Source<br>Name (2)              | Air Contaminant<br>Name (3) | Emission Rates * |         |
|---------------------------|---------------------------------|-----------------------------|------------------|---------|
|                           |                                 |                             | lb/hr            | TPY **  |
| 4                         | Emergency Flare                 | CO                          | 0.01             | 0.05    |
|                           |                                 | NO <sub>x</sub>             | 0.01             | 0.02    |
|                           |                                 | VOC                         | 0.001            | 0.001   |
| 6                         | Amine Reboiler                  | CO                          | 2.14             | 9.38    |
|                           |                                 | NO <sub>x</sub>             | 2.55             | 11.16   |
|                           |                                 | PM <sub>10</sub>            | 0.19             | 0.85    |
|                           |                                 | SO <sub>2</sub>             | 0.02             | 0.07    |
|                           |                                 | VOC                         | 0.14             | 0.61    |
| 7                         | Acid Gas Flare                  | CO                          | 0.60             | 2.63    |
|                           |                                 | H <sub>2</sub> S            | 0.07             | 0.31    |
|                           |                                 | NO <sub>x</sub>             | 0.21             | 0.91    |
|                           |                                 | SO <sub>2</sub>             | 6.58             | 28.84   |
|                           |                                 | VOC                         | 0.04             | 0.16    |
| 9                         | Tail Gas Incinerator<br>(5) (7) | CO                          | 14.00            | 61.30   |
|                           |                                 | H <sub>2</sub> S            | 7.64             | 29.07   |
|                           |                                 | NO <sub>x</sub>             | 21.93            | 83.40   |
|                           |                                 | PM <sub>10</sub>            | 0.78             | 3.43    |
|                           |                                 | SO <sub>2</sub>             | 363.30           | 1381.50 |
|                           |                                 | SO <sub>3</sub>             | 1.91             | 8.36    |
|                           |                                 | VOC                         | 0.83             | 3.64    |
| 10                        | Storage Tanks 2 and 3           | NaOH                        | 0.01             | 0.01    |
|                           |                                 | VOC                         | 0.01             | 0.01    |
| 11                        | Line Heater (6)                 | CO                          | 0.12             | 0.54    |
|                           |                                 | NO <sub>x</sub>             | 0.15             | 0.65    |
|                           |                                 | PM <sub>10</sub>            | 0.01             | 0.05    |
|                           |                                 | SO <sub>2</sub>             | 0.001            | 0.001   |

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|---------------------------|----------------------------|-----------------------------|------------------|-------|
|                           |                            |                             | lb/hr            | TPY** |
| 13                        | Caterpillar 3516           | CO                          | 4.78             | 20.96 |
|                           |                            | NO <sub>x</sub>             | 4.31             | 18.86 |
|                           |                            | VOC                         | 2.79             | 12.20 |
|                           |                            | PM <sub>10</sub>            | 0.08             | 0.36  |
|                           |                            | SO <sub>2</sub>             | 0.01             | 0.02  |
|                           | Caterpillar 3516           | CO                          | 4.78             | 20.96 |
|                           |                            | NO <sub>x</sub>             | 4.31             | 18.86 |
|                           |                            | VOC                         | 2.79             | 12.20 |
|                           |                            | PM <sub>10</sub>            | 0.08             | 0.36  |
|                           |                            | SO <sub>2</sub>             | 0.01             | 0.02  |
|                           | Glycol Dehydrator Reboiler | CO                          | 0.16             | 0.72  |
|                           |                            | NO <sub>x</sub>             | 0.20             | 0.88  |
|                           |                            | VOC                         | 0.01             | 0.05  |
|                           |                            | PM <sub>10</sub>            | 0.02             | 0.11  |
|                           |                            | SO <sub>2</sub>             | 0.001            | 0.01  |
| FUG                       | Fugitives (4)              | H <sub>2</sub> S            | 1.37             | 6.01  |
|                           |                            | VOC                         | 3.82             | 16.75 |
|                           | 1997 Project Fugitives (4) | VOC                         | 0.11             | 0.47  |
| FUG3                      | RLS Project Fugitives (4)  | VOC                         | 0.05             | 0.20  |
| FUG 4                     | MSD Facility Fugitives (4) | VOC                         | 0.11             | 0.49  |

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources use area name or fugitive source name.
- (3) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.  
SO<sub>2</sub> - sulfur dioxide  
SO<sub>3</sub> - sulfur trioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NaOH - sodium hydroxide  
H<sub>2</sub>S - hydrogen sulfide
- (4) Emissions rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) For emissions occurring when the SRU is not operating.
- (6) The heater shall be used six months a year.
- (7) SO<sub>3</sub> emissions are half of one percent of SO<sub>2</sub> emissions.

The individual tons per year (TPY) emission rates for each storage tank may be exceeded by such tank so long as the aggregate emissions from all storage tanks do not exceed 145.96 tpy.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule: 8,760 hours/year.

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

Dated October 27, 2006