

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 18161

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) | <u>Emission Rates*</u> |       |
|---------------------------|--------------------|-----------------------------|------------------------|-------|
|                           |                    |                             | lb/hr                  | TPY** |
| X-A-0                     | Loading            | VOC                         | 3.11                   | 1.03  |
| X-A-1                     | Loading            | VOC                         | 3.11                   | 1.03  |
| X-A-2                     | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-3                     | Tank Car Washing   | VOC                         | 0.02                   | 0.07  |
| X-A-4                     | Loading            | VOC                         | 1.10                   | 0.08  |
| X-A-5                     | Loading            | VOC                         | 1.95                   | 0.04  |
| X-A-6                     | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-7                     | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-8                     | Loading            | VOC                         | 5.64                   | 0.04  |
| X-A-9                     | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-10                    | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-11                    | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-12                    | Loading            | VOC                         | 3.11                   | 1.03  |
| X-A-13                    | Loading            | VOC                         | 1.46                   | 0.15  |
| X-A-14                    | Loading            | VOC                         | 1.46                   | 0.53  |
| X-A-15                    | Loading            | VOC                         | 0.36                   | <0.01 |

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|---------------------------|---------------------------------|-----------------------------|-----------------|-------|
|                           |                                 |                             | lb/hr           | TPY** |
| X-A-16                    | Loading                         | VOC                         | 1.46            | 0.15  |
| X-A-17                    | Loading                         | VOC                         | 1.46            | 0.15  |
| X-A-18                    | Loading                         | VOC                         | 1.46            | 0.15  |
| X-A-19                    | Byproduct Oil                   | VOC                         | 0.20            | <0.01 |
| X-A-20                    | Loading                         | VOC                         | 2.67            | 0.36  |
| X-A-24                    | Wastewater                      | VOC                         | 0.34            | <0.01 |
| X-B-1                     | Cooling Tower                   | VOC                         | <0.01           | <0.01 |
| X-C-1                     | Hot Oil Heater<br>(20 MMBtu/hr) | VOC                         | 0.11            | 0.48  |
|                           |                                 | NO <sub>x</sub>             | 1.20            | 5.26  |
|                           |                                 | CO                          | 1.68            | 7.36  |
|                           |                                 | PM <sub>10</sub>            | 0.15            | 0.67  |
|                           |                                 | SO <sub>2</sub>             | 0.01            | 0.05  |
| X-D-1                     | Flare                           | VOC                         | 0.21            | 0.93  |
|                           |                                 | NO <sub>x</sub>             | 0.31            | 1.34  |
|                           |                                 | CO                          | 1.56            | 6.83  |
| X-E-1                     | HCl Scrubber                    | Cl <sub>2</sub>             | <0.01           | <0.01 |
| X-E-2                     | Scrubber                        | VOC                         | 29.91           | 1.62  |
|                           |                                 | MA                          | 0.01            | <0.01 |
| X-E-3                     | Scrubber                        | VOC                         | <0.01           | <0.01 |
|                           |                                 | HF                          | 0.01            | 0.05  |
|                           |                                 | SiF <sub>4</sub>            | 0.10            | 0.45  |
|                           |                                 | BF <sub>3</sub>             | 0.04            | 0.16  |
| X-G-0                     | Tank T-1103                     | VOC                         | 0.76            | 0.22  |
| X-G-1                     | Tank T-1105                     | VOC                         | <0.01           | <0.01 |

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|                           |                    |                             | lb/hr                  | TPY** |
| X-G-2                     | Tank T-1135        | VOC                         | 0.05                   | <0.01 |
| X-G-7                     | Tank T-1322        | VOC                         | 0.60                   | 0.48  |
| X-G-8                     | Tank T-1313        | VOC                         | 0.83                   | 0.65  |
| X-G-9                     | Tank T-1380        | VOC                         | 2.97                   | 1.22  |
| X-G-10                    | Tank T-1602        | VOC                         | <0.01                  | <0.01 |
| X-G-11                    | Tank T-1102        | VOC                         | <0.01                  | <0.01 |
| X-G-12                    | Tank T-1301        | VOC                         | <0.01                  | <0.01 |
| X-G-13                    | Tank T-1311A       | VOC                         | 1.02                   | 0.01  |
| X-G-14                    | Tank T-1311B       | VOC                         | 0.53                   | 0.02  |
| X-G-15                    | Tank T-1311C       | VOC                         | 0.99                   | 0.03  |
| X-G-16                    | Tank T-1305        | VOC                         | 0.30                   | 0.03  |
| X-G-17                    | Tank T-1311D       | VOC                         | <0.01                  | <0.01 |
| X-G-18                    | Tank T-1314        | VOC                         | 0.24                   | <0.01 |
| X-G-19                    | Tank T-1317        | VOC                         | 0.26                   | 0.01  |
| X-G-20                    | Tank T-1309        | VOC                         | 0.33                   | 0.03  |
| X-G-21                    | Tank T-1310        | VOC                         | 0.12                   | 0.02  |
| X-G-22                    | Tank T-1334        | VOC                         | <0.01                  | <0.01 |
| X-G-23                    | Tank T-1335        | VOC                         | 0.85                   | 0.18  |

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|---------------------------|--------------------|-----------------------------|------------------------|-------|
|                           |                    |                             | lb/hr                  | TPY** |
| X-G-24                    | Tank-T-1315        | VOC                         | 1.23                   | 0.14  |
| X-G-25                    | Tank T-1316        | VOC                         | <0.01                  | <0.01 |
| X-G-26                    | Tank T-1336        | VOC                         | 0.31                   | 0.07  |
| X-G-29                    | Tank T-1171        | VOC                         | <0.01                  | <0.01 |
| X-G-31                    | Tank T-1354        | VOC                         | 3.31                   | 0.35  |
| X-G-32                    | Tank T-1390        | VOC                         | 1.25                   | 0.22  |
| X-G-33                    | Drum               | VOC                         | 0.71                   | 0.03  |
| X-GZ-0                    | Fugitives (4)      | VOC                         | 2.18                   | 9.54  |
|                           |                    | MA                          | <0.01                  | <0.01 |
|                           |                    | Cl <sub>2</sub>             | 0.04                   | 0.19  |
|                           |                    | BF <sub>3</sub>             | 0.12                   | 0.52  |
|                           |                    | HF                          | 0.10                   | 0.42  |
| X-H-0                     | Tank T-1341        | VOC                         | 0.01                   | <0.01 |
| X-H-1                     | Tank T-1343        | VOC                         | 0.54                   | 0.05  |
| X-H-2                     | Tank T-1345        | VOC                         | 0.11                   | 0.02  |
| X-H-3                     | Tank T-1346        | VOC                         | 0.01                   | <0.01 |
| X-H-4                     | Tank T-1330A       | VOC                         | 0.28                   | 0.06  |
| X-H-5                     | Tank T-1330B       | VOC                         | 0.01                   | 0.01  |
| X-H-6                     | Tank T-1321        | VOC                         | 1.68                   | 0.02  |
| X-H-7                     | Tank T-1349        | VOC                         | <0.01                  | <0.01 |

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|                           |                    |                             | lb/hr                  | TPY** |
| X-H-8                     | Tank T-1347        | VOC                         | 0.04                   | <0.01 |
| X-H-9                     | Tank T-1312        | VOC                         | 0.83                   | 0.65  |
| X-H-11                    | Tank T-1325        | VOC                         | 1.03                   | 0.60  |
| X-H-12                    | Tank T-1326        | VOC                         | 0.38                   | 0.04  |
| X-H-13                    | Tank T-1358        | VOC                         | 2.67                   | 0.29  |
| X-H-14                    | Tank T-1359        | VOC                         | 2.67                   | 0.29  |
| X-H-16                    | Tank T-1355        | VOC                         | 2.97                   | 0.32  |
| X-H-17                    | Tank T-1356        | VOC                         | 2.97                   | 0.32  |
| X-H-18                    | Tank T-1357        | VOC                         | 2.97                   | 0.32  |
| X-I-0                     | Tank T-1360A       | VOC                         | 2.67                   | 0.29  |
| X-I-1                     | Tank T-1360B       | VOC                         | 2.67                   | 0.29  |
| X-I-2                     | Tank T-1360C       | VOC                         | 2.67                   | 0.29  |
| X-I-5                     | Tank T-1140        | VOC                         | <0.01                  | <0.01 |
| X-I-7                     | Tank T-1603        | VOC                         | 0.05                   | <0.01 |
| X-I-8                     | Tank T-1340        | VOC                         | 1.28                   | 0.16  |
| X-I-14                    | Tank T-1606        | VOC                         | 0.25                   | <0.01 |
| X-I-15                    | Tank T-1612        | VOC                         | 0.08                   | 0.01  |
| X-I-16                    | Tank T-1628        | VOC                         | 0.06                   | 0.01  |

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|---------------------------|--------------------|-----------------------------|------------------------|-------|
|                           |                    |                             | lb/hr                  | TPY** |
| X-J-1                     | Tank T-1401        | VOC                         | 2.55                   | 0.72  |
| X-J-2                     | Tank T-1402        | VOC                         | 0.11                   | 0.23  |
| X-J-3                     | Tank T-1415        | VOC                         | 0.10                   | 0.01  |
| X-J-4                     | Tank T-1404        | VOC                         | 0.91                   | 0.58  |
| X-J-5                     | Tank T-1405        | VOC                         | 0.01                   | 0.01  |
| X-J-6                     | Tank T-1445        | VOC                         | 0.01                   | 0.01  |
| X-J-8                     | Tank T-1409        | VOC                         | 0.04                   | 0.03  |
| X-J-9                     | Tank T-1411        | VOC                         | 0.03                   | 0.02  |
| X-J-10                    | Tank T-1412        | VOC                         | 0.83                   | 0.05  |
| X-J-11                    | Tank T-1413        | VOC                         | 9.02                   | 0.10  |
| X-J-12                    | Tank T-1414        | VOC                         | <0.01                  | <0.01 |
| X-J-13                    | Tank T-1416        | VOC                         | 1.22                   | 0.06  |
| X-J-14                    | Tank T-1417        | VOC                         | 0.04                   | <0.01 |
| X-J-22                    | Tank D-1242        | VOC                         | <0.01                  | <0.01 |
| X-PD-4                    | Tank D-1124        | VOC                         | <0.01                  | <0.01 |
| X-WI-7                    | Tank I-1657        | VOC                         | <0.01                  | 0.01  |

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1

Cl<sub>2</sub> - chlorine

MA - maleic anhydride

HF - hydrogen fluoride

SiF<sub>4</sub> - silicon tetrafluoride

BF<sub>3</sub> - boron trifluoride

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

CO - carbon monoxide

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 particulate matter greater than 10 microns is emitted.

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

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day \_\_\_\_ Days/week \_\_\_\_ Weeks/year \_\_\_\_ or Hrs/year 8,760

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

Dated April 11, 2002