

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3537

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 Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|---------------------------------|-----------------------------|------------------|-------|
| TPY | | | lb/hr | |
| 1 | Steam Exhaust Stack | Pine Oil | 2.17 | 9.51 |
| | | Dipentene | 2.17 | 9.51 |
| | | Turpentine | 6.52 | 28.56 |
| 2 | Crude Pine Oil Reactor R-118 | Pine Oil | 0.26 | <0.01 |
| 3 | Boiler, ABCO | CO | 0.03 | 0.01 |
| | | NOx | 0.12 | 0.04 |
| | | VOC | <0.01 | <0.01 |
| | | SO2 | <0.01 | <0.01 |
| 4 | Boiler, Continental | CO | 0.35 | 1.01 |
| | | NOx | 1.41 | 4.06 |
| | | VOC | 0.01 | 0.04 |
| | | SO2 | <0.01 | 0.01 |
| 5 | Bulk Loading Rack | Pine Oil | 0.13 | <0.01 |
| | | Dipentene | 0.11 | <0.01 |
| | | Turpentine | 0.11 | 0.02 |
| 6 | Rail Car Loading | Pine Oil | 0.17 | <0.01 |
| | | Dipentene | 0.15 | <0.01 |
| 7 | Tank 101 | Crude Pine Oil | 0.35 | 0.08 |
| 8 | Tank 102 | Turpentine | 0.31 | 0.07 |

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|---------------------------|--------------------|-----------------------------|------------------|-------|
| TPY | | | | lb/hr |
| 9 | Tank 103 | Pine Oil | 0.18 | <0.01 |
| 10 | Tank 104 | Pine Oil | 0.18 | <0.01 |
| 11 | Tank 105 | Pine Oil | 0.18 | <0.01 |
| 12 | Tank 106 | Pine Oil | 0.18 | <0.01 |
| 13 | Tank 107 | Dipentene | 0.16 | <0.01 |
| 14 | Tank 108 | M Sol | 0.16 | <0.01 |
| 15 | Tank 109 | Pine Oil | 0.23 | <0.01 |
| 16 | Tank 110 | Dipentene | 0.18 | <0.01 |
| 17 | Tank 111 | Pine Oil | 0.18 | 0.01 |
| 18 | Tank 112 | Pine Oil | 0.18 | 0.01 |
| 19 | Tank 113 | Pine Oil | 0.09 | <0.01 |
| 20 | Tank 114 | Crude Pine Oil | 0.31 | 0.02 |
| 21 | Tank 115 | Isopropyl Alcohol | 5.04 | 0.04 |
| 22 | Tank 117 | Pine Oil | 0.26 | 0.01 |
| 23 | Tank 119 | Pine Oil | 0.20 | <0.01 |
| 24 | Tank 120 | Turpentine | 0.16 | <0.01 |
| 25 | Tank 121 | Tall Oil | 0.13 | <0.01 |

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|---------------------------|--------------------|-----------------------------|------------------|-------|
| TPY | | | | lb/hr |
| 26 | Tank 123 | Pine Oil | 0.33 | <0.01 |
| 27 | Tank 124 | Pine Oil | 0.13 | <0.01 |
| 28 | Tank 125 | Pine Oil | 0.13 | <0.01 |
| 29 | Tank 145 | Turpentine | 0.23 | <0.01 |
| 30 | Tank 175 | Pine Oil | 0.18 | <0.01 |
| 31 | Tank 176 | Pine Oil | 0.33 | <0.01 |
| 32 | Tank 177A | Pine Oil | 0.05 | <0.01 |
| 33 | Tank 177B | Pine Oil | 0.05 | <0.01 |
| 34 | Tank 179 | Turpentine | 0.23 | 0.03 |
| 35 | Tank 180 | Pine Oil | 0.18 | <0.01 |
| 36 | Tank 181 | Turpentine | 0.16 | <0.01 |
| 37 | Tank 182 | Pine Oil | 0.18 | <0.01 |
| 38 | Tank 183 | Turpentine | 0.23 | 0.02 |
| 39 | Tank 184 | Turpentine | 0.23 | 0.02 |
| 40 | Tank 185 | Turpentine | 0.23 | 0.02 |
| 41 | Tank 187 | Terpene | 0.23 | 0.02 |
| 42 | Tank 188 | Pine Oil | 0.02 | <0.01 |

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| | | | | |
|----|-----------|----------|------|-------|
| 43 | Tank 189A | Pine Oil | 0.02 | <0.01 |
| 44 | Tank 189B | Pine Oil | 0.02 | <0.02 |
| 45 | Tank 190 | Pine Oil | 0.02 | <0.01 |
| 46 | Tank 192 | Pine Oil | 0.46 | 0.02 |
| 47 | Tank 193 | Pine Oil | 0.06 | <0.01 |
| 48 | Tank 194 | Pine Oil | 0.03 | <0.01 |
| 49 | Fugitives | VOC | 1.34 | 5.88 |

- (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 General Rule 101.1
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide
 CO - carbon monoxide
- (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

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Dated _____