

**S03 - GENERAL SLUDGE PROCESSING-UNCONTROLLED**

**CALCULATION METHODS**

$E_a = U_a \text{ (lbs/year)} \times EF \text{ (lbs/lbs sludge)}$

$E_h = U_h \text{ (lbs/hour)} \times EF \text{ (lbs/lbs sludge)}$

**NOTES:**

- Emission factors are based on Encina Waste Water Treatment Plant test data obtained on 1991 and 1993.

| Pollutant           | District Emission Factor (lbs/ton sludge produced) | Reference Document                      | EPA Factor | Units   | Comments |
|---------------------|--|---|------------|---------|----------|
| TOG                 | 3.44   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| VOC                 | 0.34   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Ammonia             | 0.402  | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Benzene             | 0.000406   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Ethylene Dichloride | 0.000744   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Hydrogen Sulfide    | 0.000686   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Methylene Chloride  | 0.000922   | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Sodium Hydroxide    | 0.0000872  | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Toluene             | 0.00576  | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |
| Xylenes (mixed)     | 0.00097  | Emission Testing of Two Water Scrubbers |            | lbs/ton |          |

Last Updated on 04/19/2023  
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