

C15 - TERTIARY CRUSHING, PROCESS MATERIAL, OTHER SITE SPECIFIC CONTROLS, AWR / MPI / DISTRICT 4/9/96 METHODOLOGY

CALCULATION METHODS

(Fugitive Releases)

$$E_a = U_a \times EF \times C_i \times (1 - \% \text{capture}) \times (1 - \% \text{fugitive control})$$

$$E_h = U_h \times EF \times C_i \times (1 - \% \text{capture}) \times (1 - \% \text{fugitive control})$$

(Ducted Releases)

$$E_a = CFM \times 60 \times \text{hrs/yr} \times (0.008 / 7000) \times C_i$$

$$E_h = CFM \times 60 \times (0.008 / 7000) \times C_i$$

NOTES:

- The AWR / MPI / District Crushing Operation Emission Factors for this material are 0.00240 lbs PM10 and 0.00507 lbs TSP per ton of material processed.
 - The PM10 factor is based upon the uncontrolled PM10 tertiary crushing value in Section 11.19.2, Table 11.19.2-2 of AP-42 (1/95) and the District - AWR - MPI agreement dated 4/9/96.
 - The TSP factor is calculated using a (0.74/0.35) ratio of particle size multipliers from Section 13.2.4 of AP-42 and the above PM10 value.
 - The trace metal default concentrations are based on an AWR material analysis for crushed miscellaneous base, (Profile 7), submitted to the District in July 1996. Use site specific data if available.
 - Ducted emissions are assumed to be released at a particulate rate of 0.008 grains/ft3. No additional capture or control efficiencies should be applied.
 - Tertiary crushers with site specific fugitive dust controls may be evaluated with this procedure.
 - Per the AWR / MPI / District agreement;
- "Primary Material" = Feed streams containing >4 inch material.
- "Process" Material = Feed Streams containing material >1/2 inch and <4 inches.
- "Fines" Material = Feed streams Exclusively containing material <1/2 inch, or
- "Fines" Material = Crushers manufacturing product that is 30% or more by weight < #4 mesh.
- "Dry" Material = "Process" streams with an average moisture content of <1.5% and "Fines" streams with an average moisture content of < 3.0%.
- "Wet" Material = "Process" streams with an average moisture content of 1.5% or more and "Fines" streams with an average moisture content of 3.0% or more.

POLLUTANT	Default Composition	EPA REFERENCE	AP-42	(UNITS)	COMMENTS
	(ppmw)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	1,000,000	AP-42, Sections 11.19.2 and 13.2.4 (1/95).			
PM10	1,000,000	AP-42, Sections 11.19.2 and 13.2.4 (1/95).			
ALUMINUM	15,000				Based on local test results.
ARSENIC	22				Based on local test results.

BARIUM	225				Based on local test results.
BERYLLIUM	1				Based on local test results.
CADMIUM	1				Based on local test results.
CHROMIUM HEXAVALENT	0				Based on local test results. No Cr+6 detected in any samples analyzed.
CHROMIUM NONHEXAVALENT	28				Based on local test results.
COBALT	11				Based on local test results.
COPPER	37				Based on local test results.
LEAD	50				Based on local test results.
MANGANESE	530				Based on local test results.
MERCURY	0				Based on local test results. No mercury detected in any samples analyzed.
NICKEL	28				Based on local test results.
SELENIUM	1				Based on local test results.
SILICA, CRYSTALLINE	100,000				Based on local test results.
ZINC	99				Based on local test results.

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