C04 - CONCRETE BATCH PLANT, CENTRAL MIX OPERATION, SECTION 11.12 AP-42 (1/95), W/BAGHOUSE CONTROLS

CALCULATION METHODS

Ea = Ua (yd3/yr) x EF (lbs TSP/ yd3) x Ci (lb/lb TSP)

Eh = Uh (yd3/hr) x EF (lbs TSP/ yd3) x Ci (lb/lb TSP)

NOTES:

- Ducted TSP emission factor (weigh hopper & mixer) = 0.11 lbs/yd3. Fugitive TSP emission factor (truck loading) = 0 lbs/yd3.
- Control efficiencies must be included in emission factors since the calculation procedure will not refer to the control efficiency data.
- TSP emission factors are based on EPA data in Section 11.12 of AP-42 (1/95).
- TSP emission factors represent controlled releases (i.e.; after baghouse).
- Trace metal emission factors are based on sample analyses submitted to the District for AB2588 purposes (~1996).

POLLUTANT	District Emission Factor	REFERENCE	Default	(UNITS)	COMMENTS
	(lbs/lb TSP)	DOCUMENT	Composition		
NOX					
CO					
SOX					
TOG					
ROG					
TSP	1.00	AP-42, 1/95, Sect 11.12, Table 11.12-2	1.00	lbs/lb TSP	TSP emission factors = 0.04 (weigh hopper) and 0.07 (mixer loading).
PM10	0.92	ARB PM10 Report (12/87)	0.92	lbs/lb TSP	ARB report indicates 92% of TSP is PM10 or less.
ALUMINUM	0.011960	Based on local sample analyses	13000	PPMW	Based on AWR Technical Report 96-07 (7/96)
ARSENIC	0.000014	Based on local sample analyses	15	PPMW	Based on AWR Technical Report 96-07 (7/96)
BERYLLIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
CADMIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
CHROMIUM HEXAVALENT	0.000002	Based on local sample analyses	2	PPMW	Based on AWR Technical Report 96-07 (7/96)
CHROMIUM NONHEXAVALENT	0.000046	Based on local sample analyses	50	PPMW	Based on AWR Technical Report 96-07 (7/96)
COPPER	0.000042	Based on local sample analyses	46	PPMW	Based on AWR Technical Report 96-07 (7/96)
LEAD	0.000030	Based on local sample analyses	33	PPMW	Based on AWR Technical Report 96-07 (7/96)
MANGANESE	0.000386	Based on local sample analyses	420	PPMW	Based on AWR Technical Report 96-07 (7/96)
MERCURY					
NICKEL	0.000017	Based on local sample analyses	18	PPMW	Based on AWR Technical Report 96-07 (7/96)
SELENIUM	0.000001	Based on local sample analyses	1	PPMW	Based on AWR Technical Report 96-07 (7/96)
SILICA, CRYSTALLINE	0.092000	Based on local sample analyses	100000	PPMW	Assume 10% crystalline silica in baghouse emissions
ZINC	0.000129	Based on local sample analyses	140	PPMW	Based on AWR Technical Report 96-07 (7/96)

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