INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	**47: Cemented Batch Plant - Screened Material Transfers**												
PF1.051	Loader Feed to HPGR Feed Incline Conveyor (via Hopper)	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	**48: Cemented Batch Plant - Crusher**												
S2.071	HPGR Crusher (IN: HPGR Feed Incline Conveyor; OUT: Ground Alluvium Conveyor)	24	8,760	250	940,000	ton	Cartridge Filter	N/A	PM	0.02	gr/dscf	1.80	7.88	NDEP Default Grain Loading
									PM_{10}	0.02	gr/dscf	1.80	7.88	
									$PM_{2.5}$	0.02	gr/dscf	1.80	7.88	
	System No. & Name:	**49: Cemented Batch Plant - Crushed Material Transfers**												
PF1.052	Ground Alluvium Conveyor to Stockpile	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	**50: Cemented Batch Plant Mixing**												
S2.072	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	24	8,760	10	50,000	ton	Vent Filter	Controlled EF	PM	0.0184	lb/ton	0.18	0.46	AP-42, 11.12-2 (6/06), Mixer Loading [Central Mix] (controlled); AP-42, 13.2.4 (6/06) particle size
									PM_{10}	0.0055	lb/ton	0.055	0.14	
									$PM_{2.5}$	0.00083	lb/ton	0.0083	0.021	
	System No. & Name:	**51: Cemented Batch Plant Cement Storage Silo**												
S2.073	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	24	8,760	50	50,000	ton	Vent Filter	Controlled EF	PM	0.00099	lb/ton	0.050	0.025	AP-42, 11.12-2 (6/06), Cement Loading [Central Mix] (controlled); AP-42, 13.2.4 (6/06) particle size
									PM_{10}	0.00034	lb/ton	0.017	0.0085	
									$PM_{2.5}$	0.000050	lb/ton	0.0025	0.0013	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.053	Loader to Apron Feeder (via Static Grizzly)	24	8,760	450	2,000,000	ton	None	N/A	PM	0.0030	lb/ton	1.35	3.00	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.50	1.10	
									$PM_{2.5}$	0.00017	lb/ton	0.075	0.17	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.054	Apron Feeder Discharge to Belt Conveyor #1	24	8,760	450	2,000,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.68	1.50	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.25	0.55	
									$PM_{2.5}$	0.00017	lb/ton	0.037	0.083	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.055	Belt Conveyor #1 Discharge to Belt Conveyor #2	24	8,760	450	2,000,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.68	1.50	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.25	0.55	
									$PM_{2.5}$	0.00017	lb/ton	0.037	0.083	

*Exact format may be changed, but requested information is still required.