

**CEMEX Brooksville South Cement Plant - Kiln No. 2**

**Mercury Input Mass Balance**

Limit	122	Lbs/Yr. 12 Month Rolling Total
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DS - Dust Shuttling (dust removed from system and used to make finished cement)

0.008 - Method detection limit

Raw Mill Hg mg/kg and total tons based on proportional material Hg results of all materials used for the month

Lbs. Hg = (mg/kg Hg X 0.002) X Total Tons of Material																		
Where: 0.002 = mg/kg -To- Lbs./Ton Conversion Factor CRC																		
Year	Month	Raw Mill			Coal			Tires			Dust Removed			Hg Removal - DS		Total Pounds Hg Input	12 Month Rolling	
		Hg <sub>1</sub> mg/kg	Total Tons	Pounds Input Hg	Hg mg/kg	Total Tons	Pounds Input Hg	Hg mg/kg	Total Tons	Pounds Input Hg	Hg mg/kg	Total Tons	12 Mon. Rolling Tons	Pounds Hg Removed	12 Mon. Rolling Total Lbs		Total Lbs Hg Input	Input Less Lbs Hg Removed
2009	Jan	0.0290	58,896.9	3.421	0.016	3,902.0	0.125	0.000	0.0	0.0000			0.00	0.00	0.00	3.55	3.55	3.55
	Feb	0.0371	68,227.9	5.061	0.012	4,509.0	0.108	0.000	0.0	0.0000			0.00	0.00	0.00	5.17	8.72	8.72
	Mar	0.0358	60,230.9	4.311	0.011	4,997.0	0.110	0.000	0.0	0.0000			0.00	0.00	0.00	4.42	13.14	13.14
	Apr	0.0218	10,576.9	0.460	0.011	803.0	0.018	0.004	0.0	0.0000			0.00	0.00	0.00	0.48	13.61	13.61
	May	0.0365	123,903.1	9.042	0.012	8,992.0	0.216	0.008	0.0	0.0000			0.00	0.00	0.00	9.26	22.87	22.87
	Jun	0.0324	28,662.3	1.855	0.045	1,710.0	0.154	0.008	0.0	0.0000			0.00	0.00	0.00	2.01	24.88	24.88
	Jul	0.0288	39,892.1	2.298	0.011	2,983.0	0.066	0.008	0.0	0.0000			0.00	0.00	0.00	2.36	27.24	27.24
	Aug	0.0263	38,000.3	1.997	0.046	2,934.2	0.270	0.008	0.0	0.0000			0.00	0.00	0.00	2.27	29.51	29.51
	Sep	0.0355	114,389.7	8.121	0.028	7,845.2	0.439	0.015	0.0	0.0000			0.00	0.00	0.00	8.56	38.07	38.07
	Oct	0.0641	92,272.4	11.831	0.019	6,675.7	0.254	0.380	0.0	0.0000			0.00	0.00	0.00	12.09	50.15	50.15
	Nov	0.0490	38,353.7	3.760	0.034	2,722.7	0.185	0.570	0.0	0.0000			0.00	0.00	0.00	3.95	54.10	54.10
	Dec	0.0641	63,638.1	8.162	0.024	4,061.3	0.195	0.008	0.5	0.0000			0.00	0.00	0.00	8.36	62.46	62.46
2010	Jan	0.0279	95,004.2	5.309	0.008	6,334.6	0.099	0.008	54.2	0.0008			0.00	0.00	0.00	5.41	64.32	64.32
	Feb	0.0262	71,056.6	3.730	0.014	4,355.4	0.122	0.007	130.1	0.0019			0.00	0.00	0.00	3.85	63.00	63.00
	Mar	0.0313	107,919.6	6.763	0.008	6,211.0	0.097	0.007	322.9	0.0046	10.48	746.4	746.40	15.64	15.64	6.86	65.45	49.80
	Apr	0.0372	73,613.5	5.474	0.015	4,476.3	0.134	0.010	528.8	0.0105	6.57	1,151.9	1,898.30	15.14	30.78	5.62	70.59	39.81
	May	0.0275	51,891.0	2.858	0.034	2,852.8	0.194	0.008	414.3	0.0067	3.60	1,264.9	3,163.20	9.11	39.89	3.06	64.39	24.50
	Jun	0.0312	28,009.7	1.747	0.035	1,481.3	0.104	0.007	21.9	0.0003	1.60	88.8	3,252.02	0.28	40.17	1.85	64.23	24.06
	Jul	0.0311	117,683.0	7.318	0.022	6,866.0	0.302	0.008	596.4	0.0089	1.72	1,064.4	4,316.42	3.67	43.84	7.63	69.50	25.66
	Aug	0.0000	0.0	0.000	0.000	0.0	0.000	0.000	0.0	0.0000		312.3	4,628.72	0.00	43.84	0.00	67.23	
	Sep	0.0000	0.0	0.000	0.000	0.0	0.000	0.000	0.0	0.0000			4,628.72	0.00	43.84	0.00	58.67	
	Oct	0.0000	0.0	0.000	0.000	0.0	0.000	0.000	0.0	0.0000			4,628.72	0.00	43.84	0.00	46.59	
	Nov	0.0000	0.0	0.000	0.000	0.0	0.000	0.000	0.0	0.0000			4,628.72	0.00	43.84	0.00	42.64	
	Dec	0.0000	0.0	0.000	0.000	0.0	0.000	0.000	0.0	0.0000			4,628.72	0.00	43.84	0.00	34.28	

Please note that the July dust concentration was changed from 0.16 monthly composite to 1.72 the average of the daily samples for July, a more accurate representation