

TABLE V-8.—AVERAGE LEVELS OF TOTAL CARBON BY COMMODITY MEASURED IN $\mu\text{g}/\text{m}^3$ ($\text{EC} \times 1.3$)
[Estimated 8-hour Full Shift Equivalent TC Concentration ($\mu\text{g}/\text{m}^3$)]

EC \times 1.3	Metal	Stone	Other N/M	Trona	All mines
Number of Samples	189	519	151	15	874
Maximum	2,014	1,743	824	194	2,014
Median	239	136	129	91	153
Mean	296	214	170	90	222
Std. Error	19	10	11	13	8
95% CI Upper	333	233	191	119	236
95% CI Lower	258	195	148	62	207

The mean TC values as calculated by OC + EC are also somewhat lower than the interim compliance limit of 400 $\mu\text{g}/\text{m}^3$. The mean (median) TC value for

metal mines is 323(285) $\mu\text{g}/\text{m}^3$. The mean for stone is 263(200), other N/M is 202(168) and for trona mines is 128(126) $\mu\text{g}/\text{m}^3$. Table V-9 lists

additional statistics for TC values compiled by commodity.

TABLE V-9.—AVERAGE LEVELS OF TOTAL CARBON BY COMMODITY MEASURED IN $\mu\text{g}/\text{m}^3$ (OC + EC)
[Estimated 8-hour Full Shift Equivalent TC Concentration ($\mu\text{g}/\text{m}^3$)]

OC + EC	Metal	Stone	Other N/M	Trona	All mines
Number of Samples	189	519	151	15	874
Maximum	1,742	1,559	740	218	1,742
Median	285	200	168	126	209
Mean	323	263	202	128	263
Std. Error	17	11	11	12	8
95% CI Upper	356	284	223	154	278
95% CI Lower	289	243	181	102	248

Tables V-10 and V-11 show total DPM exposures for the baseline and the 31-Mine Study. For baseline sampling DPM was calculated by $\text{EC} \times 1.3 \times 1.25$. The 1.25 factor represents the assumption that TC comprises 80

percent of DPM. Section VI-B-3 discusses the relationship between elemental and total carbon. The mean (median) value is 369(299) $\mu\text{g}/\text{m}^3$ for metal mines, 267(170) for stone mines, 212(162) for other NM, and 113(113) $\mu\text{g}/$

m^3 for trona mines. The total DPM exposures for table V-11 were calculated as $(\text{OC} + \text{EC}) \times 1.25$. The mean values from the baseline samples appear to be lower than the mean values obtained during the 31-Mine Study.

TABLE V-10.—BASELINE DPM CONCENTRATIONS ($\text{EC} \times 1.3 \times 1.25$, $\mu\text{g}/\text{m}^3$), BY MINE CATEGORY

	Metal	Stone	Other N/M	Trona	All mines
Number of Samples	189	519	151	15	874
Maximum	2518	2178	1030	242	2518
Median	299	170	162	113	191
Mean	369	267	212	113	277
Std. Error	24	12	14	17	9
95% UCL	416	291	239	149	296
95% LCL	323	243	185	77	259

TABLE V-11.—BASELINE DPM CONCENTRATIONS $((\text{EC} + \text{OC}) \times 1.25$, $\mu\text{g}/\text{m}^3$), BY MINE CATEGORY

	Metal	Stone	Other N/M	Trona	All mines
Number of Samples	189	519	151	15	874
Maximum	2177	1949	925	273	2177
Median	357	250	211	158	261
Mean	403	329	252	160	329
Std. Error	21	13	13	15	10
95% CI Upper	445	355	279	193	348
95% CI Lower	361	303	226	127	310