Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

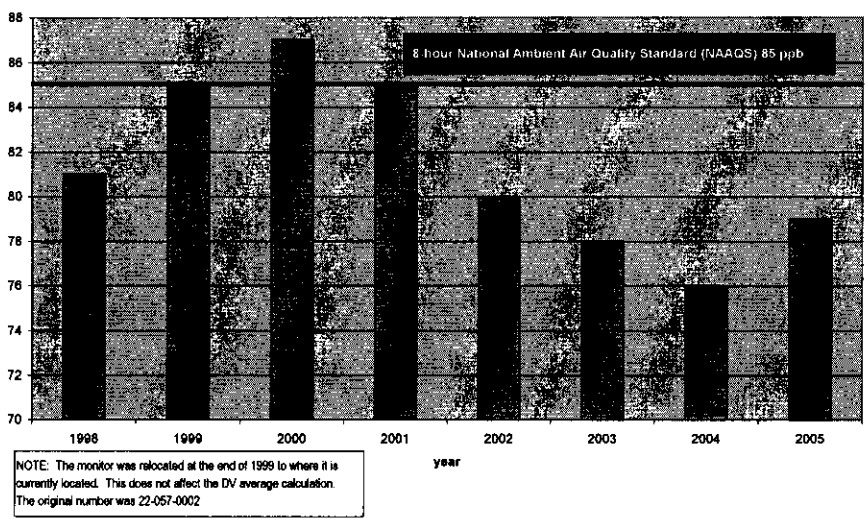
The monitoring site in Lafourche Parish (EPA AQS code 22 057 0004)[3] has been in operation since October 1, 1983 and has been operated in accordance with the requirements of 40 CFR 58 and the EPA-approved Quality Assurance Program Plan. The NAAQS for 1-hour ozone is 120 ppb based on a 1-hour average sample. Because of rounding, a 1-hour monitor reading of 125 ppb is considered an exceedance of the 1-hour ozone standard, whereas a reading of 124 ppb is considered as meeting the standard.

The Lafourche site continued to monitor attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The most recent three years of ozone monitoring data (2003-2005) for Lafourche Parish indicate an ozone design value of 98 ppb for 2003, 97 ppb for 2004 and 97 ppb for 2005. EPA revoked the 1-hour ozone standard effective June 15, 2005.

5.2 Attainment of the 8-Hour Ozone Standard

The NAAQS for 8-hour ozone is 80 ppb based on the three-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area. An 8-hour monitor reading of 85 ppb is considered an exceedance of the 8-hour ozone standard and a reading of 84 ppb is considered as meeting the standard. Figure 2 illustrates the trend in 8-hour ozone design values in ppb for the Lafourche site from 1998 through 2005.

FIGURE 2: THIBODAUX SITE
LAFOURCHE PARISH
OZONE DESIGN VALUES (DV) 1998 - 2005



[3] This monitor was originally placed at the corner of Madewood Drive and Ardoyne Street. The reference number for that site is 22-057-0002

Table 5-1 indicates that the area has monitored attainment for the latest four complete three-year periods.

Table 5-1 Lafourche Parish

8-Hour Ozone Design Values 1998-2005

Year	Highest	2nd	3rd	4th	# of days > 0.084 ppm	Design Value (ppm)
1998	0.099	0.095	0.090	0.089	4	0.081
1999	0.099	0.092	0.089	0.087	5	0.085
2000	0.100	0.089	0.088	0.085	5	0.087
1999	0.099	0.092	0.089	0.087	5	0.085
2000	0.100	0.089	0.088	0.085	5	0.087
2001	0.094	0.093	0.085	0.084	3	0.085
2000	0.100	0.089	0.088	0.085	5	0.087
2001	0.094	0.093	0.085	0.084	3	0.085
2002	0.075	0.074	0.074	0.072	0	0.080
2001	0.094	0.093	0.085	0.084	3	0.085
2002	0.075	0.074	0.074	0.072	0	0.080
2003	0.084	0.084	0.082	0.080	0	0.078
2002	0.075	0.074	0.074	0.072	0	0.080
2003	0.084	0.084	0.082	0.080	0	0.078
2004	0.083	0.080	0.079	0.078	0	0.076
2003	0.084	0.084	0.082	0.080	0	0.078
2004	0.083	0.080	0.079	0.078	0	0.076
2005	0.087	0.083	0.081	0.081	1	0.079