

Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

The monitoring sites in Calcasieu Parish (EPA AQS code 22 019 0002, 0008, and 0009) have been in operation since October 1983, September 1992 and October 1992 respectively and have 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 parts per billion (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.

For the 3-year period of 2003, 2004 and 2005, Calcasieu Parish network monitored attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The design value for Carlyss was 113 ppb; Westlake at 98 ppb; and Vinton at 106 ppb. 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 2a-2c illustrates the trend in 8-hour ozone design values in ppb for Calcasieu Parish sites from 1998 through 2005.

Figure 2a: 8-Hour Design Value for Monitor No. 22-019-0002

