



**TABLE 3-21  
MOTOR VEHICLE EMISSION BUDGETS AND ESTIMATED EMISSIONS  
FOR THE DALLAS-FORT WORTH NINE-COUNTY NONATTAINMENT AREA**

Year	VOC (tons/day)		NO <sub>x</sub> (tons/day)	
	Model Emissions	Adjusted Emissions <sup>1</sup>	Model Emissions	Adjusted Emissions <sup>1</sup>
<b>Emission Budgets<sup>2</sup></b>	<b>104.14</b>	n/a	<b>201.32</b>	n/a
2007	104.14	101.21	206.72	198.18
2010	84.22	83.97	148.13	147.98
2015	60.92	61.18	72.85	74.02
2025	45.30	45.30	37.90	37.90

<sup>1</sup> Adjusted based on mobile source emission reduction strategies (MoSERS).  
<sup>2</sup> Estimated emissions including the 5% reduction due to implementation of transportation plan (IOP), as reported in the SIP.

Source: Transportation Conformity for the Dallas/Fort Worth Nonattainment Area, (TP and TIP, Amended April 2005)

### 3.4.2 Existing Setting

#### Local Climate

The Dallas/Fort Worth metropolitan area has a continental climate with annual temperatures ranging from below 10 degrees to over 100 degrees Fahrenheit (°F). Average monthly temperature ranges from 44 °F in January to 86 °F in July. Prevailing winds are from the south, and the level to rolling terrain of the metropolitan area allows air masses to move easily over the region. As a result, long-term air pollution episodes resulting from stagnant air masses are uncommon. Air pollution episodes in the Dallas-Fort Worth area are usually associated with the summer months, with high temperature and intense sunlight, which is more conducive to ozone production than winter months.

#### Background Concentrations

The proposed Project Corridor is located in the DFW area, which is designated as moderate nonattainment for 8-hour O<sub>3</sub> levels. The “nonattainment” designation for O<sub>3</sub> indicates that violations of the federal standards for O<sub>3</sub> have been observed at air monitoring sites within the region. The moderate nonattainment category is defined by an O<sub>3</sub> design value between 138 and 160 parts per billion (ppb) for the fourth highest monitored 1-hour average O<sub>3</sub> concentration at the same monitoring site over a three-year period. The Texas Commission on Environmental Quality (TCEQ) and the City of Dallas operate air-monitoring stations throughout the metropolitan area. Two are located in the vicinity of the proposed Project Corridor. The Hinton Street monitoring station (C60/C401), located at 1415 Hinton Street, is approximately 2.7 miles southeast of the eastern end of the proposed project; and the Grapevine Fairway monitoring station (C70/C182), located at 4100 Fairway Drive is approximately 7.9 miles northwest of the Project Corridor. The monitoring stations are shown in **Figure 3-17**.

In the DFW region there are only three monitoring stations that collect 1-hour and 8-hour CO data. The CO background concentrations for analysis of the DART Northwest Corridor were obtained from the Hinton Street monitoring station. Other criteria pollutants, including O<sub>3</sub>, PM<sub>2.5</sub>, and NO<sub>2</sub> are also monitored at this station. The nearest monitoring locations for PM<sub>10</sub> are the Convention Center (C312) and the Boys Club (C134) Stations that are located approximately 7.5 miles southeast and 10 miles southwest of the eastern end of the proposed project, respectively. The most recent data available from these monitoring stations encompassed the years 2002 to 2005.