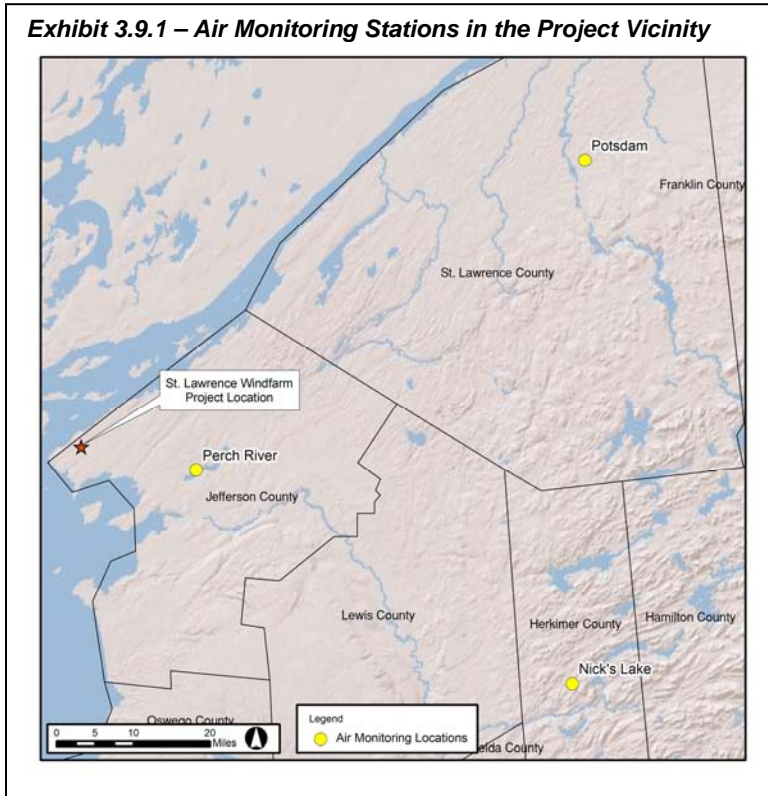


3.9 Air Quality

3.9.1 Affected Environment

The NYSDEC Division of Air Resources publishes air quality data annually. The most recent air quality data available is the 2007 *Annual New York State Air Quality Report - Ambient Air Monitoring System* (NYSDEC, 2007). This report includes ambient air quality data through 2007, as well as long-term monitoring trends in air quality derived from data collected at monitoring stations across the State. The following is a summary of existing air quality as reported therein. Concentrations are taken from monitoring stations located in Jefferson County, New York, or the nearest location (Exhibit 3.9.1).

Ambient air quality standards are shown in parentheses. Short-term concentrations are based on the highest and second-highest measured concentrations (consistent with the applicable standard not to be exceeded more than once per year) unless otherwise noted.



Sulfur Dioxide (SO₂) [Nick's Lake #2167-03]
 Annual - 0.0009 parts per million (ppm) (0.03 ppm)
 24-hour - 0.006 ppm (0.14 ppm)
 3-hour - 0.010 ppm (0.50 ppm)

Inhalable Particulates (PM₁₀) [Nick's Lake #2167-03]
 2004 Annual – 13 micrograms per cubic meter (ug/m³)
 (Sampling terminated in 2005)

Inhalable Particulates Less Than 2.5 Microns (PM_{2.5}) [Potsdam #4477-01]
 Annual Average of Last 3 Years – 6.7 ug/mg³ (15 ug/m³)
 Average of 98th Percentile of Last Three Years – 22 ug/mg³ (65 ug/m³)