

Appendix H Air Quality Monitoring Results, Northern Dakota County

Air Quality Monitoring Results in Northern Dakota County¹

Carbon Monoxide

Pollutant	Year*	Location	Reported Concentration	Air Quality Standard ⁺
CO – 1 hr	2020	Lakeville	1 parts per million (ppm)	35 ppm
	2021		1.3 ppm	
	2022		1.3 ppm	
CO – 8 hr	2020	Lakeville	0.6 ppm	9 ppm
	2021		0.9 ppm	
	2022		0.9 ppm	

Notes:

CO - 1 hr: A monitoring site meets the 1-hour carbon monoxide standard if the annual 2nd high 1-hour carbon monoxide concentration is less than or equal to the standard.

CO - 8 hr: A monitoring site meets the 8-hour carbon monoxide standard if the annual 2nd high non-overlapping 8-hour carbon monoxide concentration is less than or equal to the standard. (9 ppm)

Lead

Pollutant	Year*	Location	Reported Concentration	Air Quality Standard ⁺
Lead - 3 mon	2020	Eagan	0.08 micrograms per cubic meter (ug/m3)	0.15 ug/m3
	2021	Eagan	0.08 ug/m3	
	2021	Apple Valley	0 ug/m3	
	2022	Eagan	0.1 ug/m3	
	2022	Apple Valley	0 ug/m3	

Notes:

Lead - 3-mon: A monitoring site meets the lead standard if the maximum 3-month rolling average lead concentration during a 3-year period is less than or equal to the standard. (0.15 ug/m3)

¹ MPCA Data Services:

<https://public.tableau.com/app/profile/mpca.data.services/viz/CriteriaPollutantDataExplorer/CriteriaPollutantDataExplorer>

Nitrogen Dioxide

Pollutant	Year*	Location	Reported Concentration	Air Quality Standard ⁺
NO2 - 1 hr	2020	Lakeville	41 parts per billion (ppb)	100 ppb
	2021	Lakeville	39 ppb	
	2022	Lakeville	37 ppb	
NO2 - Annual	2020	Lakeville	7 ppb	53 ppb
	2021	Lakeville	8 ppb	
	2022	Lakeville	7 ppb	

Notes:

NO2 - 1 hr: A monitoring site meets the 1-hour nitrogen dioxide standard if the 3-year average of the annual 98th-percentile daily maximum 1-hour nitrogen dioxide concentration is less than or equal to the standard.

NO2 - Annual: A monitoring site meets the 1-hour nitrogen dioxide standard if the 3-year average of the annual 98th-percentile daily maximum 1-hour nitrogen dioxide concentration is less than or equal to the standard.

Particulate Matter

Pollutant	Year*	Location	Reported Concentration	Air Quality Standard ⁺
PM2.5 - Annual	2020	Lakeville	7.2 ug/m3	12 ug/m3
		Apple Valley	7.3 ug/m3	
	2021	Lakeville	7.6 ug/m3	
		Apple Valley	7 ug/m3	
	2022	Lakeville	7.4 ug/m3	
		Apple Valley	6.7 ug/m3	
PM2.5 - Daily	2020	Lakeville	18 ug/m3	35 ug/m3
		Apple Valley	19 ug/m3	
	2021	Lakeville	21 ug/m3	
		Apple Valley	21 ug/m3	
	2022	Lakeville	22 ug/m3	
		Apple Valley	19 ug/m3	

Pollutant	Year*	Location	Reported Concentration	Air Quality Standard†
TSP - Annual	2020	Eagan	31 ug/m3	75 ug/m3
		Apple Valley	18 ug/m3	
	2021	Eagan	36 ug/m3	
		Apple Valley	22 ug/m3	
	2022	Eagan	31 ug/m3	
		Apple Valley	19 ug/m3	
TSP - Daily	2020	Eagan	80 ug/m3	260 ug/m3
		Apple Valley	64 ug/m3	
	2021	Eagan	99 ug/m3	
		Apple Valley	70 ug/m3	
	2022	Eagan	114 ug/m3	
		Apple Valley	94 ug/m3	

Notes:

PM2.5 - Annual: A monitoring site meets the annual fine particle standard if the 3-year average of the seasonally weighted annual average concentration is less than or equal to the standard.

PM2.5 - Daily: A monitoring site meets the daily fine particle standard if the 3-year average of the annual 98th-percentile daily average concentration is less than or equal to the standard.

TSP - Annual: A monitoring site meets the annual TSP standard if the annual geometric mean TSP concentration is less than or equal to the level of the standard.

TSP - Daily: A monitoring site meets the daily TSP standard if the 2nd highest 24-hour average TSP concentration is less than or equal to the level of the standard.