

Exhibit 5 – Safety Margin Testing

A series of emissions analyses were undertaken to assist GA EPD in developing the MVEB safety margins. These tests include a worst case scenario of the RTP horizon year, 2040, which produces 10% more VMT than projected, 1 million more inhabitants (reflected in source type population), and an age distribution 2 years older than current data suggests for the year 2040. These analyses were developed to help GA EPD establish a realistic motor vehicle emissions budget safety margin for use in transportation conformity. 2040 and the 2040 worst case emissions are reflected in Table 1 and 2, below.

Table 1 – 2040 Scenario Testing Daily Ozone Precursor Emissions

Pollutant	2040 Tons/Day (% above 2024)	2040 Worst Case Tons/Year (% above 2024)
NO _x	103.42 (4%)	126.24 (27%)
VOC	70.97 (14%)	91.70 (47%)

Table 2 – 2040 Scenario testing Annual PM2.5 Precursor Emissions

Pollutant	2040 Tons/Year (% above 2024)	2040 Worst Case Tons/Year (% above 2024)
NO _x	36,150.78 (3%)	44,429.34 (26%)
PM _{2.5}	1,938.27 (18%)	2,281.15 (39%)