

## 4.17 Relationship between Local Short-Term Uses of the Environment and the Maintenance and Enhancement of Long-Term Productivity

Each of the build alternatives and the No Build Alternative involves construction of public infrastructure improvements. Construction of these improvements would involve short-term uses of the environment via the use of fuels and construction materials as well as through temporary increases in noise levels and air pollutants. For the build alternatives, these short-term effects and uses of resources would result in demonstrable long-term benefits, such as improved transit travel times and increases in transit ridership. These projected travel time savings would allow the San Francisco Municipal Transportation Agency (SFMTA) to use fewer buses while providing similar or greater service frequencies, ultimately leading to potential savings in operating costs.

Other long-term benefits to air quality, noise, and energy demand would result from an anticipated reduction in auto use in favor of bus use. Each of the build alternatives is expected to reduce emissions of several air pollutants, including nitrogen oxides, particulate matter, carbon dioxide, and greenhouse gases. These improvements would contribute to the long-term livability and, therefore, productivity of the Geary corridor.

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