

4 AFFECTED ENVIRONMENT, CONSEQUENCES, AND MITIGATION MEASURES

This chapter evaluates potential environmental impacts related to the No Build Alternative and the LPA on elements of the natural environment (air quality, greenhouse gas, geology and soils, water quality), the built environment (transportation, land uses, noise and vibration, visual resources, utilities, energy, public services, park resources, and historic and archaeological resources), and the social and economic conditions in the study area.

Each subsection of this chapter describes the study area, lists the applicable regulations followed, and provides the context of the affected environment. The analysis continues with anticipated operational impacts followed by construction impacts. Finally, as necessary, mitigation measures are listed to address impacts that could not be avoided or minimized by preliminary project design efforts, by following regulatory procedures, and/or by implementing best management practices (BMPs).

In support of the analysis in the following subsections, Appendix H contains the *Center City Connector Transportation Technical Report*, the *Noise and Vibration Technical Report*, the *Visual and Aesthetic Resources Technical Report*, and the *Cultural, Historic, and Archaeological Technical Report* (SDOT, 2015a, b, c, d).