	Chapter 3
Settings, Impacts, and	Mitigation Measures

3 3.0 Approach to Impact Analysis

4 This chapter provides environmental analyses of the physical impacts that could occur as a result of 5 implementation of the Proposed Project. The analyses are based on the Proposed Project's 35 6 percent design (completed in 2008 and refreshed in 2013) and uses a "reasonable worst-case" 7 approach to analyzing potential impacts. There is a separate section for each resource analyzed, as 8 listed below. In each section, there is a description of the environmental and regulatory setting, 9 significance criteria and methodology used in the impact analysis, and the potential impacts and 10 required mitigation measures. Both construction and operational impacts are discussed, as appropriate in each subject section. Cumulative impacts are discussed separately in Chapter 4, Other 11 12 CEQA-Required Analysis.

- 13 This chapter is organized with the following sections.
- 14 3.1, *Aesthetics*

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- 15 3.2, *Air Quality*
- 16 3.3, Biological Resources
- 17 3.4, Cultural Resources
- 18 3.5, Electromagnetic Fields and Electromagnetic Interference
- 19 3.6, Geology, Soils, and Seismicity
- 20 3.7, Greenhouse Gas Emissions and Climate Change
- 21 3.8, Hazards and Hazardous Materials
- 22 3.9, Hydrology and Water Quality
- 23 3.10, Land Use and Recreation
- 24 3.11, Noise and Vibration
- 25 3.12, Population and Housing
- 26 3.13, Public Services and Utilities
- 27 3.14, Transportation and Traffic

3.0.1 Topics Considered but Dismissed from Further Analysis

- Although agricultural and mineral resources are identified in Appendix G of the State CEQA
 Guidelines, this EIR does not include these topics because there would be no impact, as described
 below.
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1 **3.0.1.1** Agricultural Resources

2 There are no farmlands within or near the project corridor that would be affected by the Proposed 3 Project. Using mapping from the California Department of Conservation's Farmland Mapping and 4 Monitoring Program (FMMP), it was determined that the Proposed Project would not cross through 5 any significant farmland (defined as prime farmland, farmland of statewide importance, or unique 6 farmland). The majority of the project corridor runs through urban and built-up land, which is 7 defined as land occupied by structures with a building density of at least 1 unit to 1.5 acres, or 6 8 structures to a 10-acre parcel. Examples of urban and built-up land are residential, industrial, 9 commercial, and institutional facilities. A portion of the project corridor that runs through northern 10 San Mateo County and the southern terminus of the project corridor runs through areas defined as 11 other land. This is land that is not included in any other FMMP mapping category. Land use 12 examples of other land include low-density rural developments, wetlands, and riparian areas not 13 suitable for livestock grazing. The two traction power substations included in the Proposed Project 14 would be located in commercial or industrial areas, not in farmland areas and thus would not result 15 in conversion of farmland to urban uses. All other facilities would be within or immediately adjacent 16 to the Caltrain right-of-way and, thus, would not result in conversion of farmland.

Because there are no significant farmlands within or near the project corridor, there would be noimpact on agricultural resources.

19**3.0.1.2**Mineral Resources

The Caltrain ROW does not contain mineral resources of any developable value, nor would the
 project facilities have any potential to affect mineral resources. Therefore, there would be no impact

22 on mineral resources, and impacts are not discussed further.