**DRAFT LAND COVER MAPPING DESCRITPION**

ICF GIS specialist and aquatic resource specialist/botanist created preliminary maps of land cover in and adjacent to the proposed project footprint. Land cover was digitized using ESRI’s ArcGIS 10.5.1 software with National Agricultural Imagery Program (NAIP) imagery (2016) as a base map to establish the limits of each land cover types including potential aquatic resources. Historical aerial imagery in Google Earth (2019) was used to acquire images from winter and spring months to identify areas of ponding and vegetation signatures indicative of a transition between upland and wetland vegetation. Topographic data available for the Sites project area was also used to assess for topographic depressions and areas where wetlands are likely to occur (e.g., low spots and valleys). The topographic data used at this time was a combination of LIDAR data and digital elevation models, where LIDAR data was not available. All digitized land cover and aquatic resources were reviewed by a senior wetland specialist/botanist. In general, the minimum mapping unit used was 2 acres. The land cover types identified in the project area are listed below in Table 1. The land cover terminology used was not based on any specific source but rather was kept general due to a lack of specific on the ground information to further classify the land cover types by dominant vegetation.

**Table 1 Land Cover in the Sites Project Area**

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| **Land Cover** | **Acres** |
| Annual Grassland | 18,352 |
| Blue Oak Woodland | 855 |
| Canal | 124 |
| Ephemeral Stream | 2 |
| Freshwater Marsh | 113 |
| Intermittent Stream | 219 |
| Managed Wetland | 30 |
| Orchard | 497 |
| Ornamental Woodland | 12 |
| Pond | 67 |
| Reservoir | 224 |
| Rice | 1393 |
| Riverine | 15 |
| Row Crops | 821 |
| Seasonal Wetland | 134 |
| Urban/Disturbed | 480 |
| Valley Foothill Riparian | 53 |