



COMMUNITY RESOURCES AGENCY

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October 29, 2018

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Mr. Larry Beil
Via email: lbeil@sbcglobal.net

RE: October 9, 2018 GPU and DEIR Comment Letter

Dear Mr. Beil,

Please find below information regarding the maps and GIS data requested in the above letter, where a request was made for the following specific maps:

- General Plan Geotechnical Interpretive Map
- Tuolumne County Wildlife Maps
- Deer Herd Maps
- Oak Woodland Map

Information has been uploaded as GIS data files (if available) and PDF maps to the following website: <https://www.tuolumnecounty.ca.gov/889/10814/General-Plan-Update>. Information regarding the oak woodland map can be found at the links listed on the following page. Additionally, they have been emailed as PDFs to you at the following email address: lbeil@sbcglobal.net. Finally, large format (24x36) maps are available at our County office at 48 Yaney, Sonora. If you would like to purchase any of the maps they can be printed for you.

Please note that all of the information on the maps in the attached metadata table below was available at the County during the Draft Environmental Impact Report comment period.

Comments on Mitigation Measure 3.16-3: Mitigation Measure 3.16-3 was reflecting proposed changes, which would act as mitigation to 17.52.220. The underlines and strikethrough text is intentional to show the reader that Mitigation Measure 3.16-3 is proposing to modify the text of Tuolumne County Ordinance Code Section 17.52.220. If the Board of Supervisors adopts the Environmental Impact Report, Mitigation Measure 3.16-3 will be implemented, and the underlined language will be added and the strikethrough language will be deleted.

Lastly, this letter and all attachments will be posted to our County website to provide clarification for other readers. Other issues raised in your comment letters will be responded to as a part of the Final Environmental Impact Report. Thank you for your interest in the Tuolumne County General Plan and please let me know if you have any additional questions.

Respectfully,

Quincy Yaley
Assistant Director, Development
Community Resources Agency

Cc: Mike Parker, Ascent Environmental

Layer	Data Source	Summary	Description	Access Date
Oak Woodlands	*Data compiled by Ascent Environmental from USDA Forest Service - Pacific Southwest Region - Remote Sensing Lab and California Department of Fish and Game (in collaboration with the California Native Plant Society and Aerial Information Systems)	<p>USDA: May 2014. Boundaries for the ecological tile units and CALVEG zone units currently being used to tile the EVEG (existing vegetation) dataset. Selected lines were added from the CalWater watershed layer where finer tile divisions were needed. Additionally, attributes from Ecological Units of California (Ecological Domain, Division, Province, Section and Subsection) have been incorporated into this layer. A mapping methodology has been developed to capture vegetation characteristics using automated, systematic procedures that efficiently and cost-effectively map large areas of the state with minimal bias and is supplemented with onsite field visits when appropriate.</p> <p>CDFW: February 2011. In a separately funded project, AIS and CNPS produced a vegetation map for the Lassen Foothills subregion from 2007-08, using the National Agriculture Imagery Program's (NAIP's) true color aerial imagery from 2005. Mapping for the entire NSNF subsequently occurred from 2008-11, and used 1-meter resolution true color imagery acquired by NAIP in 2005 and 2009. Previous vegetation field surveys in the region resulted in a floristic classification and field key of vegetation types by CNPS and CDFG staff, including 57 vegetation alliances and 8 semi-natural types. Around 2,531 vegetation rapid assessment or relevé field surveys and an additional 1,855 reconnaissance points were used as reference data for the vegetation map produced by AIS. Existing vegetation maps from AIS/CNPS (Lassen Foothills and Tuolumne Table Mountain/Peoria Wildlife Area) were also incorporated into the final map product. Other ancillary data used for mapping included GIS layers for: protected lands, roads, railroads, and vehicular trails; vernal pools; soils; fire history; geology; and ultramafic geology. It also included National Wetlands Inventory Data, USFS CalVeg data, USGS digital raster graphics (DRGs), and 20-foot contour digital elevation models (DEMs).</p>	<p>Resolution of the source data USDA: 1:24000 CDFW: 1 meter</p> <p>Accuracy of the data USDA: unknown CDFW: 80.2 – 85.1%</p> <p>Quality Assurance USDA: Data quality assurance and quality control (QA/QC) are mandated by the Data Quality Act, USDA, and by Forest Service policy. CDFW: To validate the vegetation map, an accuracy assessment (AA) effort with field verification was conducted by CNPS and CDFG staff. AA samples were allocated by CDFG for each map Module as it was received from AIS. In general, stratified random sampling was employed to obtain a sufficient number of observations within each map unit to make a reasonably precise statement about the accuracy of each map unit.</p>	Report Date Feb 2011

<p>Flood Zones</p>	<p>FEMA</p>	<p>The National Flood Hazard Layer (NFHL) data incorporates all Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters of Map Revision (LOMRs) that have been issued against those databases since their publication date. It is updated on a monthly basis. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The primary risk classifications used are the 1-percent-annual-chance flood event, the 0.2-percent-annual-chance flood event, and areas of minimal flood risk. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available. The FISs and FIRMs are published by FEMA. The NFHL is available as State or US Territory data sets. Each State or Territory data set consists of all FIRM Databases and corresponding LOMRs available on the publication date of the data set.</p> <p>The specification for the horizontal control of FIRM Databases is consistent with those required for mapping at a scale of 1:12,000. This file is georeferenced to the Earth's surface using the Geographic Coordinate System (GCS) and North American Datum of 1983.</p>	<p>The FIRM is the basis for floodplain management, mitigation, and insurance activities for the National Flood Insurance Program (NFIP). Insurance applications include enforcement of the mandatory purchase requirement of the Flood Disaster Protection Act, which "... requires the purchase of flood insurance by property owners who are being assisted by Federal programs or by Federally supervised, regulated or insured agencies or institutions in the acquisition or improvement of land facilities located or to be located in identified areas having special flood hazards," Section 2 (b) (4) of the Flood Disaster Protection Act of 1973. In addition to the identification of Special Flood Hazard Areas (SFHAs), the risk zones shown on the FIRMs are the basis for the establishment of premium rates for flood coverage offered through the NFIP. The FIRM Database presents the flood risk information depicted on the FIRM in a digital format suitable for use in electronic mapping applications. The FIRM Database serves to archive the information collected during the Flood Risk Project.</p>	<p>28-Aug-17</p>
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Wildlife Habitat Relationships	Wildlife Handbook	The purpose of the original overlay system and shapefiles are to consider the possible impacts of development projects on wildlife habitats. The results of the maps / shapefiles should be verified by site visits by qualified individuals or from other data.	The Wildlife Habitat / Vegetation Maps were originally prepared under contract as part of the Tuolumne County Wildlife Mapping and Handbook project, completed in 1987. The mapping part drew polygons encompassing wildlife habitat types based on recognizing vegetation imagery, using aerial photographs (contact prints) flown in the late 1970's and early 1980's. The type areas were circled on the aerial photo prints, and transferred to mylar overlays at a scale of 1:12,000 based on USGS Quadrangle maps (twice normal scale). The mylars were digitized in the mid-1990's by Tuolumne County GIS, and are used as .shp files in ArcGIS.	29-Oct-08
Deer Migration Routes	California Department of Fish and Game	Created to identify important deer habitats, migration routes and resident populations. These features are used for planning purposes.	Deer habitat and migration routes for Mariposa county. Includes Stanislaus, Tuolumne and Yosemite Herds.	15-May-08
Deer Herds	California Department of Fish and Game	Created to identify important deer habitats, migration routes and resident populations. These features are used for planning purposes.	Deer habitat and migration routes for Mariposa county. Includes Stanislaus, Tuolumne and Yosemite Herds.	15-May-08
Geologic Units	California Geologic Survey	General composite Lithologic Layers for a Portion of Tuolumne County; Compiled by California Geological Survey as part of Mineral Lands Classification of a Portion of Tuolumne County, California, for Precious Minerals, Carbonate Rock, and Concrete-Grade Aggregate	General composite Lithologic Layers for a Portion of Tuolumne County; Compiled by California Geological Survey as part of Mineral Lands Classification of a Portion of Tuolumne County, California, for Precious Minerals, Carbonate Rock, and Concrete-Grade Aggregate. 1997, Department of Conservation,	9-May-13

			Division of Mines and Geology, DMG Open-File Report 97-09	
Soils	California State Cooperative Soil-Vegetation Survey	1997, Department of Conservation, Division of Mines and Geology, DMG Open-File Report 97-09	Tuolumne county digital soils layer based on 21 (1:31680 Scale 7.5- minute Quadrangles) SOIL- VEGETATION SURVEY MAPS For the California State Cooperative Soil-Vegetation Survey From 1969- 1979	31-May-05
Serpentine Soils	No Metadata Available			4-Oct-17
Faults	California Department of Conservation	No Metadata Available		9-May-13
Slope	No Metadata Available			9-May-13
Limestone	No Metadata Available			9-May-13

*Link to Oak Woodland Report: <https://www.wildlife.ca.gov/Data/VegCAMP/Reports-and-Maps>

Oak Woodland Metadata: https://www.fs.fed.us/r5/rsl/projects/gis/data/vegcovs/map-tiles/CalvegTiles_Ecoregions07_5.html

and <https://www.fs.usda.gov/detail/r5/landmanagement/resourcemanagement/?cid=stelprdb5347192>