

MEMORANDUM

To: Michael Bumgardner
From: Adrian Juncosa
Date: May 14, 2022
Subject: Sandale LLC 8160 Stevenson Ave. Parcel Botanical Survey

This memorandum documents a floristic botanical survey carried out to determine whether any special status plant species are present within the study area, an approximately one-quarter acre area of Valley Grassland and Seasonal Wetland (as the latter is defined for the purposes of the South Sacramento Habitat Conservation Plan and as directed by Sacramento County staff).

Summary

No special status plant species were found within the subject property during a springtime floristic botanical survey.

Methods

The on-site survey was carried out following the principles set forth in the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities (California Department of Fish and Wildlife, 2018).

Survey dates were April 6 and April 30, 2022. The survey was carried out by Dr. Adrian Juncosa, who formerly taught two courses (California Floristics and Flowering Plant Systematics) at UC Davis and has 42 years of experience carrying out floristic botanical surveys on many sites within the Sacramento Valley and many other locations in California and elsewhere.

The survey was carried out similarly on both dates, walking transects spaced 5-10 feet apart and scanning for every plant species that was present. Additional scrutiny was devoted to wetland areas (see map, page 3).

All plants observed within the survey areas were identified to species and subspecific taxon where applicable; sufficient to determine whether they were special status species. The following special status species, for which potentially suitable habitat might occur, were targeted:

Cuscuta obtusiflora var. *glandulosa*

Downingia pusilla

Gratiola heterosepala

Hibiscus lasiocarpus var. *occidentalis*

Juncus leiospermus var. *ahartii*

Lasthenia chrysantha

Legenere limosa

Lepidium latipes var. *heckardii*

Orcuttia tenuis

Orcuttia viscida

Trifolium hydrophilum

Results

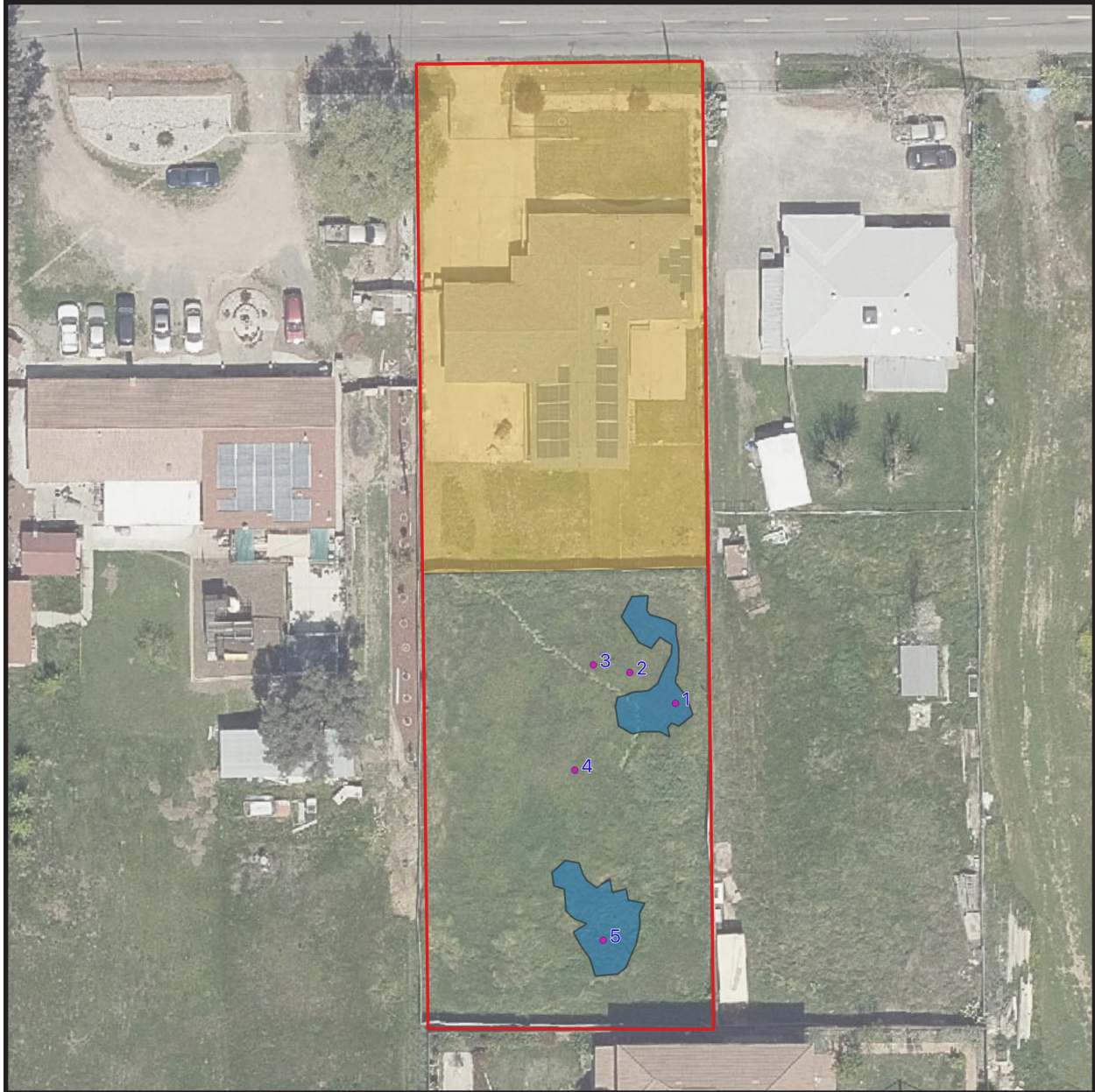
No special status plant species, whether the specifically targeted species or otherwise, were found within the site during a survey on two dates encompassing an ideal seasonal period to find and identify rare plants in the project region. Moreover, no small plants that might flower later in the season were found. The table below provides the names of all species that were observed. The list being relatively short, plants are listed by scientific name alphabetically by genus. Notably, only one native herbaceous vascular plant species was found on site (*Epilobium brachycarpum*). The other two native species present were *Funaria hygrometrica*, a moss, and a small sapling of *Quercus lobata* (Valley oak).

Scientific Name

Avena fatua
Bromus diandrus
Bromus hordeaceus
Epilobium brachycarpum
Erodium cicutarium
Festuca (Lolium) perennis
Funaria hygrometrica (moss)
Galium aparine
Geranium dissectum
Hordeum marinum ssp. *gussoneanum*
Hordeum murinum var. *leporinum*
Lactuca serriola
Leontodon saxatilis
Lepidium latifolium
Malva neglecta
Medicago polymorpha
Phyla nodiflora
Quercus lobata (small sapling)
Ranunculus muricatus
Raphanus sativus
Rumex crispus
Senecio vulgaris
Sonchus asper
Vicia sativa ssp. *sativa*

Conclusions

The survey confirmed that no special status plant species occurs within any potentially suitable habitat on the project site, and I conclude that the project can be developed with no impacts on such species.



Eco Synthesis

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Bumgardner Biological Consulting

Scale: 1:600 (1"=50')



Sandale LLC Property 8160 Stevenson Avenue

Botanical Survey Map

Parcel boundary

Low Density Development (no suitable habitat)

Valley Grassland [no fill]

Seasonal Wetland

Wetland study data points

Soil mapped within the site is San Joaquin-Galt complex, leveled, 0 to 1 percent slopes. Land cover labels are from the South Sacramento Habitat Conservation Plan.