



July 25, 2016

Attn: Chris Hampson, Senior Project Manager
Meridian Consultants
910 Hampshire Road, Suite V
Westlake Village, California 91361

Re: Lompoc Motorsports Park Black-Flowered Figwort Survey

Dear Mr. Hampson:

This letter summarizes the results of a focused rare plant survey for black-flowered figwort (*Scrophularia atrata*) conducted by BioResource Consultants, Inc., (BRC) on 15 July, 2016, on the proposed Lompoc Motorsports Park located within the city of Lompoc on Lompoc Airport property (Figure 1). The Project site is approximately 38 acres and consists of three parcels (APN 093-450-012, APN 093-450-013, and APN 093-040-020), located at 34.667395°N, -120.466899°W, on the *Lompoc* United States Geological Survey 7.5-minute series topographic quadrangle (Figure 1).

BIOLOGICAL SURVEY METHODS

The focused survey was conducted based on the initial biological assessment, conducted by BRC on 8 January, 2016, which determined the presence of suitable habitat and nearby documented occurrences for black-flowered figwort. Prior to implementing the focused botanical surveys, standard database searches were conducted and reports from previous surveys of the area were reviewed to obtain pertinent information regarding documented and potential occurrences of special-status species and habitat types, including more recent occurrences of black-flowered figwort in the vicinity of the Project area. The following resources were reviewed.

- CNDDDB *Rarefind 5* (CDFW 2015) data within the U.S. Geological Survey *Lompoc* and surrounding 7.5 minute topographic quadrangles
- California Native Plant Society's (CNPS) online *Inventory of Rare and Endangered Plants* containing species-specific habitat requirements for plant species (CNPS 2015)
- United States Fish and Wildlife Service (USFWS) database of designated Critical Habitat
- *The Jepson Manual*, second edition (Baldwin et al. 2012)
- *A Manual of California Vegetation* (Sawyer et al. 2009)
- Habitat and Natural Resources Assessment for the Lompoc Motorsports Park (BRC 2016)

On 15 July, 2016, BRC botanist Steve Jones, who is familiar with the natural resources and special-status species of the region, conducted a focused survey for black-flowered figwort at the

Project site. The area was methodically surveyed on foot from 10:00 AM to 2:30 PM. The survey was conducted during the blooming period for the species (March–July).

FIELD SURVEY RESULTS

Seventy-five plant species were observed during the Project survey. Of those 75 species, 49 are native species and 26 are non-native (Appendix A). The Project site provides habitat for black-flowered figwort within riparian scrub habitat within the Arroyo Willow Thicket and Coyote Brush Scrub (Figure 2). However, the understory in these communities consists of dense cover of poison oak (*Toxicodendron diversilobum*) and poison hemlock (*Conium maculatum*), which are out-competing the black-flowered figwort and other native species. Black-flowered figwort was not observed during the survey. In addition, the surveyor did not observe any plants of the genus *Scrophularia*.

Conclusions

Because black-flowered figwort was not observed during either the initial Project biological survey in January 2016 or the focused surveys conducted in July 2016; the understory of the available suitable habitat in the area is infested with non-native poison hemlock and native poison oak; and the most current record of the species in the vicinity of the Project dates to 1954, black-flowered figwort is not expected to occur on the Project site and will not be effected by the Project.

Please let me know if you have any questions or require clarification regarding this assessment.

Sincerely,



Stephen Jones, Senior Botanist

cc: Brian E. Holly, Vice President, Senior Ecologist

**APPENDIX A:
FIGURES**

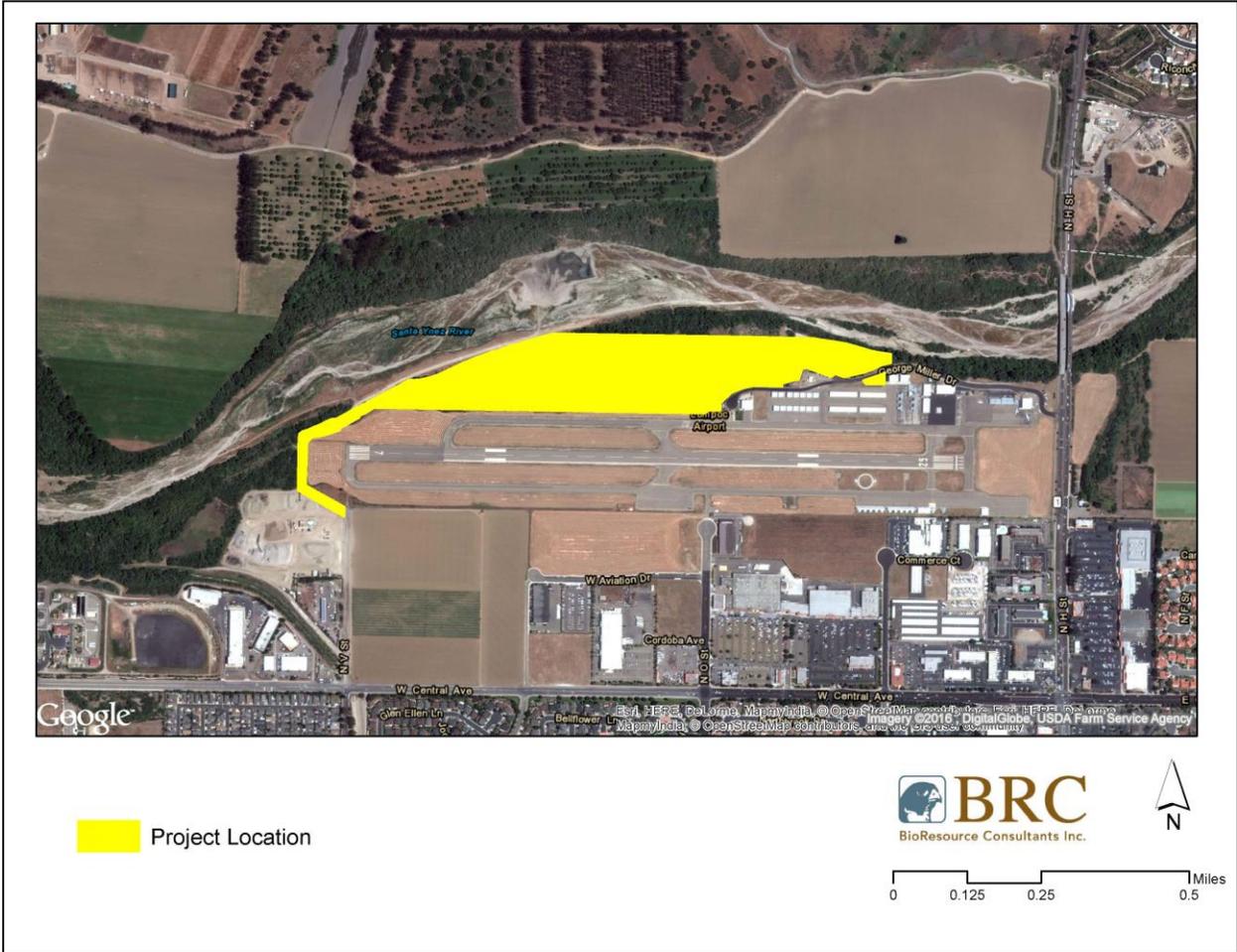


Figure 1. Project Location.

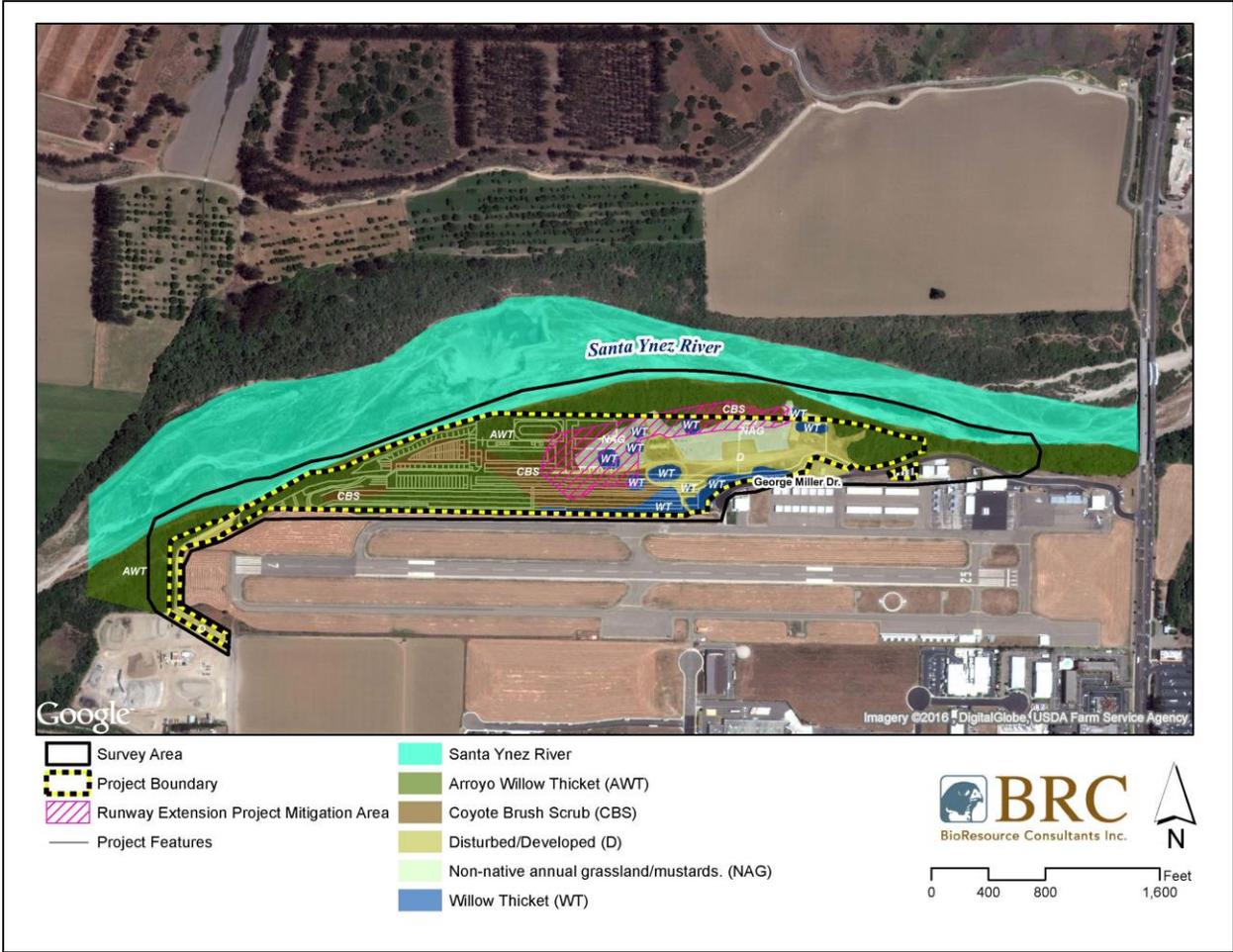


Figure 2. Vegetation communities within the Project site.

**APPENDIX A:
PLANT SPECIES OBSERVED**

Scientific Name	Common Name	Family	Native/Non-Native
<i>Achillea millefolium</i>	yarrow	Asteraceae	Native
<i>Acmispon glaber</i>	deerweed	Fabaceae	Native
<i>Amaranthus blitoides</i>	prostrate pigweed	Amaranthaceae	Native
<i>Ambrosia acanthicarpa</i>	annual bursage	Asteraceae	Native
<i>Ambrosia psilostachya</i>	western ragweed	Asteraceae	Native
<i>Amsinckia intermedia</i>	common fiddleneck	Boraginaceae	Native
<i>Anagallis arvensis</i>	scarlet pimpernel	Myrsinaceae	Non-native
<i>Apium graveolens</i>	celery	Apiaceae	Non-native
<i>Artemisia californica</i>	california sagebrush	Asteraceae	Native
<i>Artemisia douglasiana</i>	mugwort	Asteraceae	Native
<i>Artemisia dracunculus</i>	wild tarragon	Asteraceae	Native
<i>Asclepias fascicularis</i>	arrow-leaved milkweed	Apocynaceae	Native
<i>Avena barbata</i>	slender wild oats	Poaceae	Non-native
<i>Avena fatua</i>	wild oats	Poaceae	Non-native
<i>Baccharis pilularis</i>	coyote brush	Asteraceae	Native
<i>Baccharis salicifolia</i>	mulefat	Asteraceae	Native
<i>Brassica nigra</i>	black mustard	Brassicaceae	Non-native
<i>Bromus carinatus</i>	California brome	Poaceae	Native
<i>Bromus diandrus</i>	ripgut brome	Poaceae	Non-native
<i>Bromus hordeaceus</i>	soft brome	Poaceae	Non-native
<i>Bromus rubens</i>	red brome	Poaceae	Non-native,
<i>Calystegia macrostegia</i>	morning glory	Convolvulaceae	Native
<i>Carduus pyncocephalus</i>	Italian thistle	Asteraceae	Non-native
<i>Centaurea melitensis</i>	totalote	Asteraceae	Native
<i>Chenopodium album</i>	goosefoot	Chenopodiaceae	Non-native
<i>Cirsium vulgare</i>	bull thistle	Asteraceae	Non-native
<i>Clematis ligusticifolia</i>	virgins bower	Ranunculaceae	Native
<i>Conium maculatum</i>	poison hemlock	Apiaceae	Non-native
<i>Conyza canadensis</i>	horseweed	Asteraceae	Native
<i>Croton californica</i>	croton	Euphorbiaceae	Native
<i>Deinandra fasciculata</i>	Clustered tarweed	Asteraceae	Native
<i>Elymus condensatus</i>	giant wild rye	Poaceae	Native
<i>Elymus triticoides</i>	beardless wild rye	Poaceae	Native
<i>Eriogonum fasciculatum</i> var. <i>foliolosum</i>	California buckwheat	Polygonaceae	Native
<i>Eriophyllum confertiflorum</i>	golden yarrow	Asteraceae	Native
<i>Erodium cicutarium</i>	redstem filaree	Geraniaceae	Non-native,
<i>Festuca octoflora</i>	sixweek grass	Poaceae	Native

Scientific Name	Common Name	Family	Native/Non-Native
<i>Foeniculum vulgare</i>	fennel	Apiaceae	Non-native
<i>Galium aparine</i>	common bedstraw	Rubiaceae	Native
<i>Helminthotheca echioides</i>	bristly ox-tongue	Asteraceae	Non-native
<i>Heliotropum curassavicum</i>	heliotrope	Boraginaceae	Native
<i>Heterotheca grandiflora</i>	telegraph weed	Asteraceae	Native
<i>Hirschfeldia incana</i>	summer mustard	Brassicaceae	Non-native,
<i>Hypochaeris glabra</i>	smooth cat's ear	Asteraceae	Non-native
<i>Lactuca serriola</i>	prickly lettuce	Asteraceae	Non-native
<i>Lonicera involucrata</i>	coast twinberry	Caprifoliaceae	Native
<i>Madia elegans</i>	common madia	Asteraceae	Native
<i>Madia gracilis</i>	gumweed madia	Asteraceae	Native
<i>Marah macrocarpa</i>	wild cucumber	Cucurbitaceae	Native
<i>Marrubium vulgare</i>	horehound	Lamiaceae	Non-native
<i>Medicago polymorpha</i>	bur clover	Fabaceae	Non-native
<i>Nicotiana glauca</i>	tree tobacco	Solanaceae	Non-native
<i>Phacelia cicutaria</i>	caterpillar phacelia	Boraginaceae	Native
<i>Platanus racemosa</i>	western sycamore	Platanaceae	Native
<i>Polypogon monspeliensis</i>	rabbitsfoot grass	Poaceae	Non-native
<i>Populus fremontii</i>	Fremont cottonwood	Salicaceae	Native
<i>Quercus agrifolia</i>	coast live oak	Fagaceae	Native
<i>Ribes divaricatum</i>	spreading gooseberry	Grossulariaceae	Native
<i>Rubus ursinus</i>	blackberry	Rosaceae	Native
<i>Rumex acetosella</i>	common sheep sorrel	Polygonaceae	Native
<i>Salix exigua</i>	narrowleaf willow	Salicaceae	Native
<i>Salix laevigata</i>	red willow	Salicaceae	Native
<i>Salix lasiolepis</i>	arroyo willow	Salicaceae	Native
<i>Salsola tragus</i>	Russian thistle	Chenopodiaceae	Non-native
<i>Salvia mellifera</i>	black sage	Lamiaceae	Native
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	elderberry	Adoxaceae	Native
<i>Sisymbrium irio</i>	London rocket	Brassicaceae	Non-native
<i>Sisymbrium altissimum</i>	tumble mustard	Brassicaceae	Non-native
<i>Sonchus asper</i>	prickly sow thistle	Asteraceae	Non-native
<i>Stachys bullata</i>	California hedge nettle	Lamiaceae	Native
<i>Stephanomeria exigua</i>	small wire lettuce	Asteraceae	Native
<i>Symphoricarpos mollis</i>	snowberry	Caprifoliaceae	Native
<i>Toxicodendron diversilobum</i>	poison oak	Anacardiaceae	Native
<i>Urtica dioica</i>	stinging nettle	Urticaceae	Native

Scientific Name	Common Name	Family	Native/Non-Native
<i>Xanthium strumarium</i>	cocklebur	Asteraceae	Native