

Appendix 1

Biological Resource Assessment

(LSA Associates)

December 4, 2008

Mr. Douglas Pope
Napa Industrial LLC
c/o Headwaters Development Company LLC
50 Fullerton Court, Suite 203
Sacramento, CA 95825

Subject: Biological Resources Assessment, Napa Commerce Center, South County Industrial Area, Napa County, CA.

Dear Doug:

The following letter describes the biological resources on the approximately 218 acre Napa Commerce Center site, and provides an assessment of the potential impacts to biological resources resulting from the construction of the proposed project. The proposed project is located in Township 4 North, Range 4 West, Section 11 on the 7.5 minute USGS Cuttings Wharf Quadrangle (38°22'2" N and 122°16'40" W). The project site is located near the City of American Canyon in the Napa County Airport Industrial Park, in Napa County, California. The site's Napa County Assessors Parcel number is 057-090-007-069. Figures 1 and 2 depict the regional location and vicinity of the project site, respectively. Figure 3 is an aerial photograph of the site that has been annotated to show wetland resources.

Based on the results of our onsite studies and review of previously developed information for the Beringer-Blass project, the information contained in the Beringer Blass EIR (ESA 2001) is generally still applicable. The only major exception is the report of, and assumption of, vernal pool fairy shrimp inhabiting the Napa Commerce Center project site in the Beringer Blass EIR. Subsequent analysis has shown that the original assumptions were incorrect and that the fairy shrimp had actually been found on the Napa Airport, over 500 feet to the west and outside the watershed of the project property (Pittman 2003). Furthermore, two years of wet season protocol surveys for fairy shrimp conducted by Pittman in 2002 and 2003 did not find any evidence of any listed fairy shrimp on the subject property (Pittman 2003). Pittman therefore concluded that fairy shrimp were absent from the site (copies attached).

PROJECT DESCRIPTION

The proposed project consists of a new 645,000 square-foot storage and warehousing building with accessory office space and associated infrastructure intended to serve the wine industry (Figure 4). Local approvals for this project are based on the previous environmental review and approvals granted for the Beringer-Blass project by the County of Napa, with some minor modification for minor differences in the project development plans between the two projects. Project components include:

- Construction of the 645,000 square-foot rail and truck accessible warehouse and associated office space and infrastructure:

- Extension of Devlin Road on an existing easement through the adjacent Napa Airport Corporate Centre (NACC) parcel to provide access to the project site;
- Construction of a railroad spur to access the warehouse;
- Construction of a new storm sewer outfall to No Name Creek, and;
- Establishment of 34.2-acre Resource Preserve/Management Area, which includes segments of No Name Creek and associated wetlands in the northwestern corner of the site.

As proposed, the warehouse site will require the removal of earth to provide a flat construction site. This material is proposed to be placed and spread in the middle of the property. No wetlands would be filled by this activity.

Associated infrastructure for the warehouse includes a rail spur, stormwater quality treatment facilities, 362 standard parking spaces and 10 ADA accessible parking spaces to accommodate 231 full-time and 30 part-time employees, as well as customers. The proposed project will also include 48 truck loading docks and 3 railroad loading docks. The project would also involve extension of Devlin Road across the NACC property southwest from the existing Devlin Road-South Kelly Road intersection to gain access to the site. There is currently no public road access to the site. This road extension will fill a total of 0.15 acre of State and federal jurisdictional wetlands on the NACC parcel.

Wastewater disposal is available from the City of American Canyon. A new sewer line pump station is required near the middle of the project site parcel. A gravel road will be installed to allow City of American Canyon personnel to service the pump station. Water will be provided by the City of American Canyon. Reclaimed wastewater will be used for all landscaping and other uses not requiring potable water. Figure 3, attached, presents the proposed project site plan.

PROJECT SITE DESCRIPTION

General Site Conditions

The project site is a relatively flat 218- acre rectangular property bounded by the Napa County Airport to the north, with Airport Road running along its northern border parallel to the project site boundary. It is located north of Highway 29 and east of South Kelly Road and its intersection with Devlin Road. To the northeast of the proposed project are the Devlin Road Waste Transfer Station and Napa County Compost Facility. These facilities are separated from the project site by the California Northern Railroad tracks, which run parallel to the eastern border of the proposed project. To the south and west are undeveloped parcels of land, primarily in use for agriculture and grazing. The site has been used as range for cattle, and is bounded on all sides by barbed wire. Several cattle corals and a barn have been erected in the southeastern corner. The properties surrounding the site to the north and east are undeveloped grazed cattle pasture. The properties to the south of the site are either unused or used for industrial purposes.

Soils

The USDA Natural Resources Conservation Service (formerly the Soil Conservation Service) mapped two soils on the project site (*Soil Conservation Service, 1978*).

coronopifolia), flatsedge (*Cyperus* sp.), and iris-leaved or brown-headed rush (*Juncus xiphioides* or *J. phaeocephalus*).

The banks of No Name Creek support sporadic areas of native perennial grassland, dominated by creeping wild rye (*Leymus triticoides*) and a rhizomatous rush (*Juncus balticus* or *J. mexicanus*). There is no woody riparian vegetation on the project site.

Jurisdictional Determination

Waters of the United States on the Napa Commerce Center study area consist of 3.92 acres of seasonal wetlands, wetland stream segments, wetland ditch segments, non-wetland stream and ditch segments, and culverts (Figure 3). Three of these wetlands are isolated from other waters of the United States (Justin Yee, USACOE, pers. comm.). These features, along with sample point locations, are mapped on Figure 3. The dimensions of individual segments and wetlands are provided in Tables A and B. The areas of wetlands and other waters are summarized in Tables C and D.

The extent of waters mapped in LSA's June, 2008 wetland delineation of the project site resembles the extent (4.9 acres) of jurisdictional waters delineated in 2000 (LSA 2008). The most substantial differences between the current and previous delineations are: 1) an intermittent stream was mapped in 2000 where SW1 is located now; and 2) an intermittent stream was mapped in 2000 from the eastern project boundary (railroad) to No Name Creek, where no such feature exists now. The U.S. Army Corps of Engineers field-verified LSA's 2008 delineation on October 16, 2008.

Offsite wetlands along the Devlin Road extension (on the NACC parcel) were mapped by Jones and Stokes Associates in October 2005 and verified by the Corps in January 2008.

Special-status Species

Plant Species. Field surveys were conducted by LSA botanist Tim Milliken, in accordance with USFWS, CDFG, and CNPS protocols. Field surveys were conducted on March 20, April 20, July 16, and August 20, 2008. The surveys identified and inspected the following plant communities on the site; non-native annual grassland; freshwater marsh vegetation; seasonal wetlands; and in-stream wetlands. All surveys were timed to ensure observations during appropriate developmental stages of the target species and were conducted on foot in order to provide visual coverage of the entire project site.

The majority of the species encountered were sight-identified to species level; some were keyed using a dissecting scope and appropriate floristic manuals. Taxonomy and nomenclature follow those in *The Jepson Manual; Higher Plants of California* (Hickman 1993). A list of all species observed during the surveys is attached (Table E).

No special-status plants have been mapped on or adjacent to the project site. However, a search list of 9 special-status plants was compiled for consideration with the project EIR (ESA 2001 and 2001a) by combining the resources of the *California Natural Diversity Data Base* (CDFG 2008), the *Electronic Inventory of Rare and Endangered Plants of California* (CNPS 1994), and informal consultation with the USFWS regarding potential sensitive plant species at the project site. Thus, the

Central Valley is California meadow vole (*Microtus californicus*). Agricultural areas are often preferred over more natural grassland habitats due to larger prey populations. In addition, agricultural practices (planting, maintenance, harvesting, disking) allow for access to prey, and very likely increase foraging success of Swainson's hawks by flushing prey.

There is a current nesting record for Swainson's hawk located 2.5 miles north of the Project site along the south bank of Suscol Creek, in south Napa (CNDDDB Occurrence Number 1619). These birds are reportably highly tied to the waste-water disposal/irrigation fields north of the Napa County Airport. The grasslands on the project site provide potential foraging habitat, but small mammal and meadow vole populations are likely to be relatively limited given the grassland characteristics and historic levels of livestock grazing.

IMPACTS AND MITIGATION ASSESSMENT

Impacts to Threatened and Endangered Species

Nesting Swainson's hawks have been recorded less than a mile from the project site, and several of the large eucalyptus trees adjacent to the project provide potential nesting habitat. The neighboring grassland areas could be used by these and other raptors as foraging grounds. The grassland areas are small, disturbed, and surrounded by development, making them less valuable as foraging habitat than larger grasslands; therefore, the loss of this area as foraging habitat is considered a less than significant impact to the species. However, due to the proximity of previously recorded Swainson's hawks, the presence of this species on the site cannot be ruled out. Although no nesting activity has been documented on the site, northern harrier, Swainson's hawk, burrowing owl, white-tailed kite, and loggerhead shrike could also forage or nest on the site.

Impacts to Riparian or Wetland Habitats or Other Sensitive Natural Community

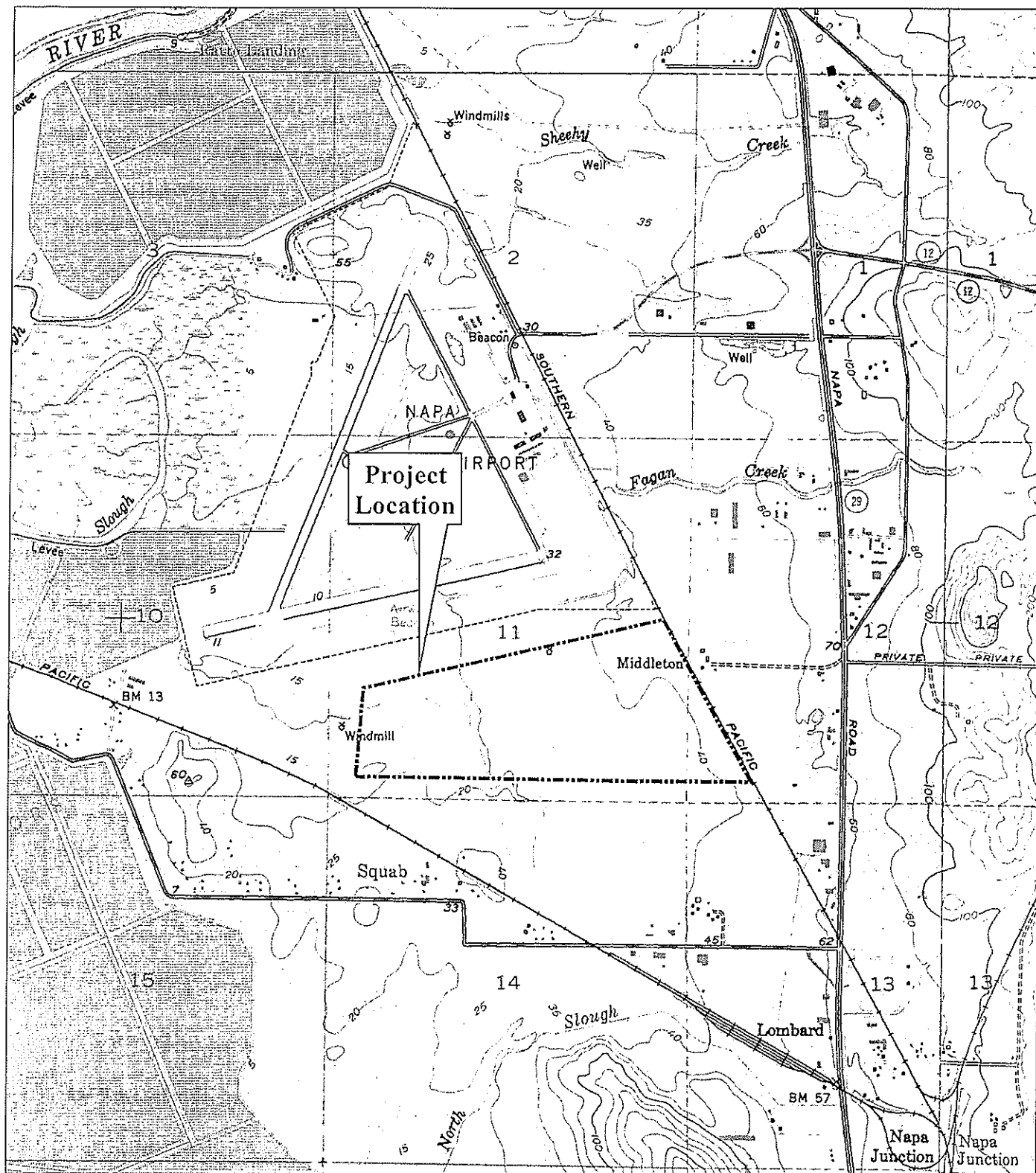
The project will result in the loss of 0.34 acre of seasonal wetlands regulated only by the State, and loss of an additional 0.15 acre of wetlands regulated by both State and federal agencies. These impacts could not be avoided by project planners.

Interfere Substantially with the Movement of Any Native Resident or Migratory Fish or Wildlife Species or With Established Native Resident or Migratory Wildlife Corridors

The property is surrounded by parcels that are developed or are in the process of being developed for commercial and residential use. The primary potential for movement is likely centered along No Name Creek. The No Name Creek corridor will only be affected by a small rip-rap outfall, and much of the length of No Name Creek will be placed in a permanent conservation preserve. The No Name Creek corridor will provide continued connectivity from upstream areas on the Giovanni Property to the south out to Fagan Slough/Napa River on the west. The proposed project is unlikely to affect the movement or nursery sites of any native wildlife species.

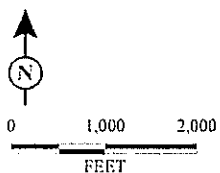
Literature Cited

- California Natural Diversity Database (CNDDDB). 2008. Federally listed species occurrences. Wildlife and Habitat Data Analysis Branch, California Department of Fish and Game, Sacramento.
- California Native Plant Society (CNPS). 2008. Inventory of Rare and Endangered Plants of California. 7th ed. California Native Plant Society, Sacramento.
- ESA. 2001. Beringer Wine Estates Devlin Road Facility Final Environmental Impact Report. County of Napa Conservation, Development and Planning Department. State Clearing House No. 00032043, Use Permit No. 98597. Napa County, California.
- _____. 2001a. Beringer-Blass Wine Estates Wetland and Water Associated Permit Applications. Prepared for Beringer-Blass Wine Estates. Corps File #25176N.
- Hickman, J.C., ed. 1993. *The Jepson Manual: Higher Plants of California*. University of California Press, Berkeley, CA. 1400 pp.
- LSA Associates, Inc. 2008. Delineation of Waters of the United States, Napa Commerce Center. 9 June. Napa County, California.
- U.S. Department of Agriculture Soil Conservation Service (now Natural Resources Conservation Service) in Cooperation with the University of California Agricultural Experiment Station. 1978. *Soil Survey of Napa County, California*.



LSA

FIGURE 2



Napa Industrial Park
Napa County, California

Project Location

Table A: Jurisdictional Wetlands

Seasonal Wetlands	Area (sq. ft.)	Area (acres)
SW 1	25,490	0.59
SW 2	3,230	0.07
SW 5	490	0.01
SW 6	1,020	0.02
SW 7	45,020	1.03
SW 8	2,130	0.05
SW 9	23,170	0.53
SW10	1,300	0.03
SW11	2,120	0.05
SW12	630	0.01
SW13	120	0.00
SW14	8,400	0.19
SW15	280	0.01
SW16	2,290	0.05
SW17	920	0.02
Total	116,610	2.68

Table C: Summary of Potentially Jurisdictional Wetlands and Other Waters

Jurisdictional Features	Length (feet)	Area (sq. ft.)	Area (acres)
Wetlands			
Seasonal Wetlands	-	116,610	2.68
Wetland Stream and Ditch Segments	3,080	29,090	0.67
Total	3,080	145,700	3.35
Other Waters			
Streams	830	4,270	0.10
Ditches	200	1,440	0.03
Culverts	90	210	0.01
Total	1,120	5,920	0.14

Table D: Isolated Wetlands

Seasonal Wetlands	Area (sq. ft.)	Area (acres)
SW19	6,320	0.15
SW20	12,890	0.30
Total	19,210	0.45

Scientific Name	Common Name	Native
<i>Foeniculum vulgare</i>	Fennel	No
<i>Hemizonia congesta</i>	Hayfield tarweed	Yes
<i>Holcus lanatus</i>	Velvet grass	No
<i>Hordeum brachyantherum</i>	Meadow barley	Yes
<i>Hordeum marianum</i> ssp. <i>gussoneanum</i>	Mediterranean barley	No
<i>Hordeum murinum</i> ssp. <i>leporinum</i>	Hare barley	No
<i>Hypochoeris radicata</i>	Hairy cat=s-ear	No
<i>Juncus balticus</i>	Baltic rush	Yes
<i>Juncus bufonius</i>	toad rush	Yes
<i>Juncus occidentalis</i>	Western rush	Yes
<i>Juncus ziphioides</i>	Iris-leaved rush	Yes
<i>Lasthenia glaberrima</i>	Rayless goldfield	Yes
<i>Leymus triticoides</i>	Creeping wildrye	Yes
<i>Lolium multiflorum</i>	Italian wildrye	No
<i>Lotus corniculatus</i>	Bird's-foot trefoil	No
<i>Lotus purshianus</i>	Spanish clover	Yes
<i>Lupinus bicolor</i>	Miniature lupine	Yes
<i>Lythrum hyssopifolia</i>	Hyssop loosestrife	No
<i>Malva neglecta</i>	Buttonweed	No
<i>Medicago polymorpha</i>	Burclover	No
<i>Mentha pulegium</i>	Pennyroyal	No
<i>Parentucellia viscosa</i>	Parentucellia	No
<i>Paspalum dilatatum</i>	Dallasgrass	No
<i>Perideridia kelloggii</i>	Yampa	Yes
<i>Phalaris paradoxa</i>	Hood canarygrass	No
<i>Picris echioides</i>	Prickly ox-tongue	No
<i>Plagiobothrys stipitatus</i>	Slender popcorn-flower	Yes
<i>Plantago lanceolata</i>	English plantain	No
<i>Pleuropogon californicus</i>	Semaphore grass	Yes
<i>Polygonum aviculare</i> ssp. <i>depressum</i>	Common knotweed	No
<i>Polypogon monspeliensis</i>	Rabbit=s-foot grass	No
<i>Ranunculus muricatus</i>	Spiny-fruit buttercup	No
<i>Raphanus sativus</i>	Wild radish	No
<i>Roripa nasturtium-aquaticum</i>	Watercress	Yes
<i>Rumex acetosella</i>	Sheep sorrel	No
<i>Rumex pulcher</i>	Fiddle dock	No

**Wet Season Sampling for Federally Listed Large Branchiopods at the
Beringer-Blass Wines Estates Devlin Road Facilities Project Site,
Napa County, California**

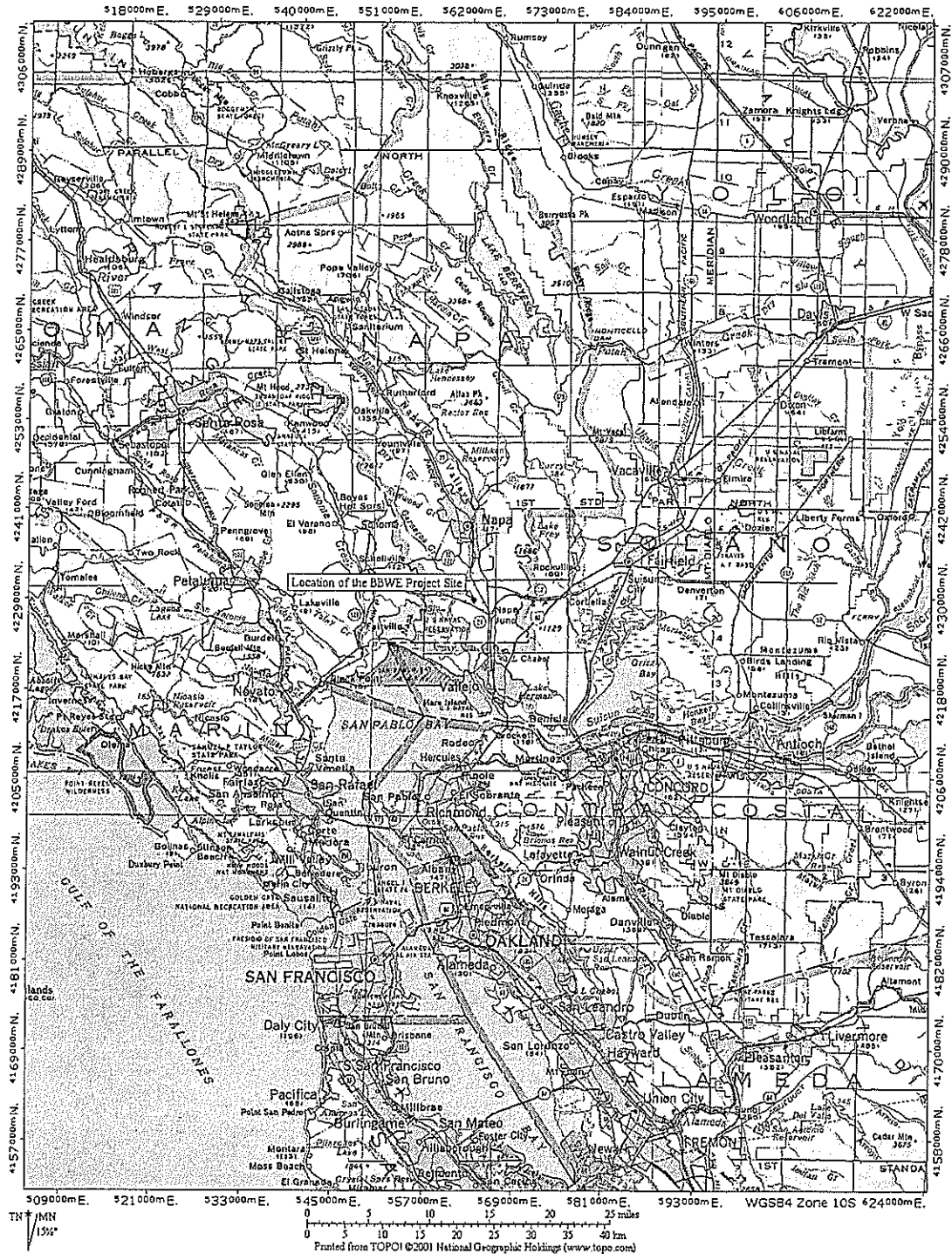
Winter 2003 Survey Results for TE Permit Number TE0027422-0

Prepared for: Monty Maglinte
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Prepared by: Brian Pittman
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Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

Figure 1. General Regional Location of the BBWE Project Site



Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

The BBWE site has been grazed extensively for decades and is highly “pocked” with cow hoof depressions. The many small depressions created by passing cows are especially prevalent in low-lying wet areas. All wetlands and ponding features on the site, including No-name Creek, show extensive cattle use.

Survey Methodology

Wet-season sampling was conducted by Brian Pittman under permit TE-027422-0 of Section 10(a)(1)(a) of the federal Endangered Species Act, 16 U.S.C. 1531 *et seq.*, and its implementing regulations. Methods followed the U.S. Fish and Wildlife Service (USFWS) *Interim Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods* (1996).

The BBWE project site comprises a 218-acre site, of which roughly 25 to 30 acres are proposed for conservation. The remaining roughly 185 acres would be developed and are the focus of the current survey assessment. All potential habitat for large branchiopod species on the BBWE site was sampled at two-week intervals as per the USFWS *Interim Survey Guidelines*. Thus, surveys concentrated on the following basins, which totaled 0.41 acres: Wetlands A, C, D, E, F, O, O-2, and “Feature B’.” The location of these features is mapped in Figure 2. Surveys were initiated on December 18, 2002, within two weeks of initial pool inundation and were completed on April 8, 2003.

Potential habitat for large branchiopods includes any seasonally inundated depression that on average ponds water 3 centimeters or greater in depth for 14 or more consecutive days. Habitats that flow water (e.g., creeks, streams and ephemeral drainages) or semi-to-permanently inundated areas were not considered suitable habitat for federally listed large branchiopods.

Sampling at the BBWE project site was conducted on the following dates:

December 18, 2002
January 3, 16 and 31, 2003
February 14 and 24, 2003
March 11 and 25, 2003
April 8, 2003 (Wetland F and Feature B’ only)

As several pools were dry at the time of the December 18, 2002 survey, a ninth site visit was required to complete the eight-survey USFWS survey protocol at Wetland F and Feature B’.

Wet season sampling entailed dip netting within all potential habitats for large branchiopods at two week intervals from the time the habitats first ponded water until they dried (or until the 8th site survey). Surveys employed both a 12-inch dip net and 6-inch hand net with a fine mesh. All organisms captured in the dipnet were identified to the lowest necessary taxonomic group and then released in the field.

Special Status Species List

The BBWE site is geographically situated in southern Napa County, within the identified range of the VPFS. Based on the known distribution of other listed branchiopod species, VPFS is the only listed branchiopod species known from the Napa County project vicinity. This determination was made by

Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

Table 2. Sampling Locations and Ponding Conditions²

	Wetland A	Feature B'	Wetland C	Wetland D	Wetland E	Wetland F	Wetland O	Wetland O-2
18 Dec 2002	X	Dry	X	X	X	Dry	X	X
3 Jan 2003	X	X	X	X	X	X	X	X
16 Jan 2003	X	X	X	X	X	X	X	X
31 Jan 2003	X	X	X	X	X	X	X	X
14 Feb 2003	X	X	X	X	X	X	X	X
24 Feb 2003	X	X	X	X	X	X	X	X
11 Mar 2003	Dry	Dry	X	X	Dry	X	Dry	Dry
25 Mar 2003	Dry	Dry	X	X	X	X	X	X
8 Apr 2003	--	Dry	--	--	--	Dry	--	--

“X” indicates water present; Wetland F and Feature B’ were the only features sampled on 8 April 2003

² Refer to Appendix C for data sheets that describe the physical conditions at each site.

Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

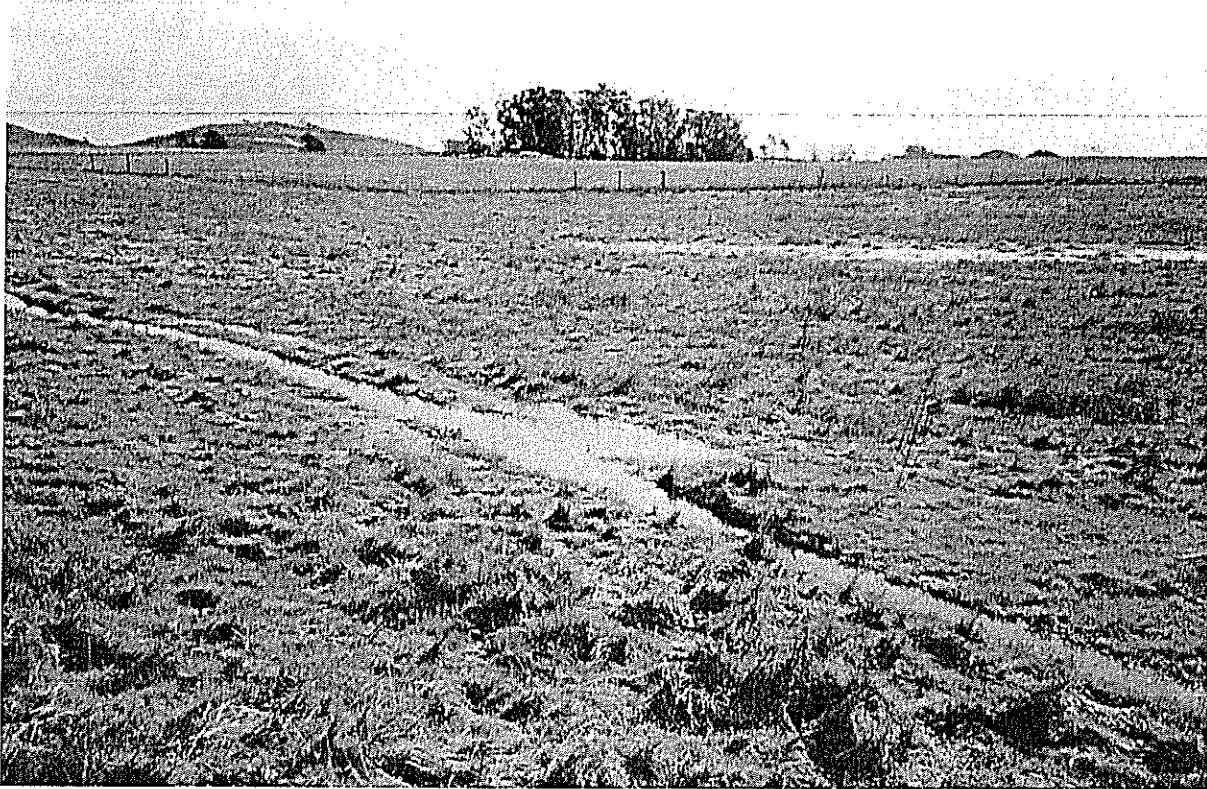
Appendix A. Beringer-Blass Wine Estates Project Site Plant List

Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

	<i>Spergularia</i>				
Convolvulaceae					
⊕	<i>Convolvulus arvensis</i>	Field bindweed	*		
Cyperaceae					
	<i>Carex</i> sp.	Sedge			*
⊕	<i>Cyperus eragrostis</i>	Umbrella sedge			*
Euphorbiaceae					
	<i>Eremocarpus setigerus</i>	Turkey mullein	*		
Fabaceae					
	<i>Lotus corniculatus</i>	Birdsfoot trefoil	*		
	<i>Lotus humistratus</i>		*		
	<i>Lupinus bicolor</i>	Annual lupine	*		
⊕	<i>Medicago polymorpha</i>	Bur clover	*		
⊕	<i>Trifolium</i>	Tomcat clover	*		
⊕	<i>Trifolium subterraneum</i>		*		
⊕	<i>Vicia sativa</i>	Common vetch	*		
Gentianaceae					
	<i>Centaurea muhlenbergii</i>	canchalagua	*		
Geraniaceae					
⊕	<i>Erodium cicutarium</i>	Filaree	*		
⊕	<i>Geranium dissectum</i>	Storksbill	*		
Juncaginaceae					
	<i>Lilaea scilloides</i>			*	*
Lythraceae					
⊕	<i>Lythrum hyssopifolium</i>	Loosestrife		*	*
Myrtaceae					
⊕	<i>Eucalyptus globulus</i>	Blue gum	*		
Onagraceae					
	<i>Camissonia ovata</i>	Suncups	*		
	<i>Epilobium ciliatum</i>	Willow herb			
Plantaginaceae					
⊕	<i>Plantago erecta</i>	English plantain	*		
Polygonaceae					
*	<i>Polygonum arenastrum</i>	Common knotweed	*		
*	<i>Rumex acetocella</i>	Sheep sorrel	*		
*	<i>Rumex crispus</i>	Curly dock	*	*	
*	<i>Rumex pulcher</i>	Dock	*	*	
Primulaceae					
	<i>Anagallis arvensis</i>	Scarlet pimpernel			
Ranunculaceae					
	<i>Ranunculus bonariensis</i>				

Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

Appendix B. Representative Photographs of Sampled Basins on the BBWE Project Site.



Wetland C. This feature is located on the southern BBWE project boundary. A flooded cattle path is visible in the foreground and was included in wet season sampling.



Wetland D. This feature is located within Wetland O and experiences heavy water flows at times. The view in this photo is to the southwest.



Wetland O. The portion of this feature that provides habitat for VPFS is located on the eastern boundary of the BBWE project site. This photo shows the channel as it exits the railroad right of way. The one-foot wide Wetland O channel was dug by hand at some point to drain water away from the railroad alignment. This feature traverses the BBWE site; however, habitat for VPFS only occurs in isolated portions of this feature (i.e. near the railroad alignment, at Wetland E, Wetland O-2, and near Wetland D).

Beringer-Blass Wine Estates Devlin Road Facility
2003 Large Branchiopod Survey Results

Appendix C. Data Sheets (Available upon request)

**Annual Monitoring Report for Brian Pittman, FWS Permit # TE 027422-0
February 13, 2003**

**Brian Pittman
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Introduction

This annual report provides an evaluation of special status crustaceans collected by Brian Pittman under FWS permit number TE-027422-0 during 2002. One site was surveyed during the 2002 survey year, the Beringer-Blass Wine Estates (BBWE) project in Napa County, California.

The BBWE project site is located immediately south of the Napa County Airport and approximately 1/3 mile east of the Napa River. The location of the project site is Township 4N, Range 4W, Section 11. The attached figures show the boundaries of the project site. Mr. Pittman notified the U.S. Fish and Wildlife Service by letter on December 18, 2001 to request approval under the above permit to conduct protocol-level surveys at this location.

In summary, no listed or otherwise special status vernal pool crustaceans were identified in sampled locations on the BBWE project site during winter 2002 surveys. Potential habitat for the federally listed vernal pool fairy shrimp (*Branchinecta lynchi*) occurs in 0.41 acres of low to moderate quality seasonal wetlands that were sampled on the project site.

VPFS were identified by URS Griner biologists Steve Leach and Laura Cholodenko in February 2000 in the local project vicinity. Using a handheld Garmin GPS unit, the pool where VPFS were identified was located and measured relative to the BBWE Project site. This pool is located 520 feet west of the BBWE project site (+/- 18 feet). Site activities on the BBWE site are proposed at a distance of greater than 750 feet from this pool.

Methodology

All potential habitat for listed branchiopod species on the BBWE site, with the exception of seasonal pools that were located within a 30-acre conservation area (see attached map) were sampled at two-week intervals as per the April 19, 1996, *Interim Survey Guidelines*. Surveys were initiated during the week of January 1, 2002, within two weeks of initial pool inundation. The location of these pools is provided in the attached maps.

The BBWE project site comprises a 218-acre site, of which roughly 30 acres are proposed for conservation. The remaining roughly 185 acres would be developed and are the focus of the current survey assessment.

The wetland delineation for the project site was verified by the U.S. Army Corps of Engineers on December 20, 2000. A description of the pools on the site is provided in Table 1. All seasonal wetlands identified in the verified delineation (outside of a designated conservation area) were included in wet season sampling. Additionally, two non-wetland pools were included in the sampling effort (Feature B' and a pool located near Wetland C) and an additional wetland identified in January 2002 (Wetland O-2) was included in the

sampling effort. The locations of the sampling sites are shown in the attached figures. Wet season surveys were performed at all seasonally ponded areas in the study area as previously described on January 4, January 22, February 11, February 20, and March 3, 2002 following the current (1996) USFWS survey protocol⁹. All pools were dry by mid-March, thus additional surveys were not possible.

Results

The BBWE project site is located on the Cuttings Wharf USGS quadrangle in Napa County, California. Seven Corps'-jurisdictional seasonal pools and two additional ponded features were sampled on the BBWE project site for the presence of large branchiopods.

No listed or otherwise special status vernal pool crustaceans were identified during the course of U.S. Fish and Wildlife Service surveys at this site in winter 2002.

Weather conditions during sampling were clear to partially cloudy during all sampling visits. Water temperatures in the pools during the sampling period ranged from 13° C in early January to 21° C in early March (in the warmest pool). Photographs of the sampled pools are provided as an attachment to this report.

Adjacent Land Uses.

The vicinity of the project site supports a variety of land uses.

North: Immediately to the north of the site is the Napa County Airport, with Airport Road adjacent to and paralleling the northern boundary of the project site. The Devlin Road Transfer Station and Napa County Compost Facility are located to the northeast of the proposed project site, near the intersection of South Kelly Road and Devlin Road. Further to the north and to the east (greater than ½ mile) are several existing or planned hotel/resort projects.

East: The California Northern Railroad tracks lie adjacent and parallel to the east boundary; beyond that are undeveloped parcels that consist of grazed and ungrazed non-native grasslands. Various industrial sites border the site on the southern half of its eastern border. Further to the east, commercial/industrial uses abut State Highway 29.

South: The area to the south is undeveloped (non-native grassland used for pasture) up to the commercial/industrial uses fronting on Green Island Road. Another California Northern Railroad line runs skew to the project site at the southwest corner (the two rail rights-of-way were previously owned by Southern Pacific Railroad, as indicated on existing maps of the site area, but California Northern acquired all assets of Southern Pacific in a merger completed in 1998).

West: The area to the west is undeveloped non-native grassland used for pasturelands.

⁹ U.S. Fish and Wildlife Service. 1996. Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods. Sacramento Field Office, April 19, 1996.

Leach and Cholodenko in the CNDDDB (100's of shrimp). Because this pond was not located on the BBWE project site, the unidentified Branchinectids were not collected or identified to species and are thus considered unidentified.

This feature is located 520 feet west of the BBWE site, at a 325-degree bearing from the northwestern corner of the BBWE site. The pool straddles the fenceline between the Napa County Airport and the adjoining property to the south, and is properly mapped in the CNDDDB.