

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 3'

Depth at bank full: 1' - 2'

Stream gradient: very low (swale)

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: \_\_\_\_\_

Maximum depth of stream pools: \_\_\_\_\_

Characterize non-pool habitat: run, riffle, glide, other: N/A

Vegetation: emergent, overhanging, dominant species: no emergent or riparian vegetation;  
forb species present include Italian rye-grass, rippgut brome, greenstem filaree, slender wild oat,  
milk thistle, curly dock, and petty spurge (Euphorbia peplus)

Substrate: mud/silt

Bank description: shallow swale/box-culverted channel; bank not well-defined

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: goes dry after rains

Other aquatic habitat characteristics, species observations, drawings, or comments:  
This site is a swale with a box culvert crossing under South Higuera Street. The swale is dominated by grassy and weedy speceis. No emergent or riparian vegetation is present. The swale supports extremely marginal California red-legged frog habitat, which has connectivity to marginal habitat approximately 100 feet downstream (California walnut-western sycamore riparian woodland) on the opposite (west) side of South Higuera Street. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 02/24/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Belt Travis  
(Last name) (first name) (Last name) (first name)

Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

Site 2 (San Luis Obispo County; box culvert crossing on South Higuera Street, San Luis Obispo)  
**Site Location:** Obispo: UTM: Zn 10. 710.816 E. 3.901.547 N +  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S ).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway

Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 4'

Depth at bank full: 1' - 2'

Stream gradient: very low (ag ditch)

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: \_\_\_\_\_

Maximum depth of stream pools: \_\_\_\_\_

Characterize non-pool habitat: run, riffle, glide, other: N/A

Vegetation: emergent, overhanging, dominant species: no emergent or riparian vegetation; poison hemlock, black mustard, and various non-native annual grasses present

Substrate: mud/silt

Bank description: not well defined; there is not much of a bank between adjacent agricultural field and box culvert

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: goes dry after rains

Other aquatic habitat characteristics, species observations, drawings, or comments:  
This agricultural ditch on the east side of South Higuera Street passes under the road via a concrete box culvert. The ditch dead-ends at a large berm that is situated between the ditch and a stream, on the west side of South Higuera Street. The ditch was completely dry at the time of the site assessment. Extremely marginal California red-legged frog habitat. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 02/24/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Belt Travis  
(Last name) (first name) (Last name) (first name)

Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

Site Location: Site 3 (San Luis Obispo County; conveyance of SLO Creek and East Fork, south of Higuera St. Bridge. between SLO and Avila Beach: UTM: Zn 10. 710.262 E. 3.900.124 N)  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway

Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: 3' X 6' Maximum depth: 6"

Vegetation: emergent, overhanging, dominant species: emergent species include bulrush, cattail, and sedges; dominant canopy species include arroyo willow, western sycamore, and California bay.

Substrate: concrete debris and mud/silt from eroding bank.

**Perennial or Ephemeral** (circle one). If ephemeral, date it goes dry: mid-March

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 20' - 30'

Depth at bank full: 5' - 8'

Stream gradient: moderate

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 5' X 5', also a 3' X 6' ponded area

Maximum depth of stream pools: 1.5' - 2'

Characterize non-pool habitat: run, riffle, glide, other: run, glide, and riffle

Vegetation: emergent, overhanging, dominant species: emergent vegetation includes willow saplings, cattail, and bulrush; canopy is dominated by California walnut, arroyo willow, and California bay

Substrate: 40% cobble, 30% gravel, 20% mud/silt, 10% boulder/riprap

Bank description: steeply sloping, eroded banks with minimal vegetative cover

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

**Other aquatic habitat characteristics, species observations, drawings, or comments:**

Three possible crossings proposed at this location; one will be chosen. Clear, cold water with emergent vegetation, ponds, and overhanging banks. Ponded water is located adjacent to the perennial stream, formed by the eroded creek bank and displaced riprap. This area is supported by excess storm flows intruding into the erosion area. This particular area supports low-quality California red-legged frog habitat. Good-quality California red-legged frog habitat occurs throughout the remainder of the site. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 03/14/2007  
(mm/dd/yyyy)

Site Assessment Biologists: Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

\_\_\_\_\_  
(Last name) (first name) (Last name) (first name)

Site Location: Site 4 (SLO County; south of conveyance of SLO Creek and East Fork SLO Creek, between SLO and Avila Beach: UTM: Zn 10. 710255 E 3900542 N) **+**  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway  
 Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: approx. 75'

Depth at bank full: approx. 15'

Stream gradient: low

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 5' X 5', also a 3' X 6' ponded area

Maximum depth of stream pools: 1.5' - 2'

Characterize non-pool habitat: run, riffle, glide, other: riffle upstream, moderate glide through proposed crossing, then very slow glide downstream; channel narrows and water gets backed up; no actual pools but deep (4'-5') slow moving water similar to pools

Vegetation: emergent, overhanging, dominant species: no emergent vegetation; dense overhanging arroyo willow cover; many rootwads along banks could serve as cover

Substrate: mostly cobble and gravels, with some larger rocks

Bank description: west bank vegetated mainly by willows and grasses; east bank mostly vegetated by coyote brush, poison hemlock, and grasses; banks are steep and widely spaced apart at this location, become narrower downstream.

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Despite the lack of emergent vegetation, there is very good CRLF habitat at this site, especially with the combination of deep, relatively still water and overhanging riparian cover. This site is south of the Filippini Reserve. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 07/11/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

\_\_\_\_\_  
(Last name) (first name) (Last name) (first name)

Site Location: Site 5 (San Luis Obispo County; proposed crossing over San Luis Obispo Creek on Bunnel property east of Hwy 101: UTM 10 709.918E 3.899.623N (WGS84/NAD83) **+**  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway  
 Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (circle one). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: ~50'

Depth at bank full: ~10'

Stream gradient: low

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 5' X 10'

Maximum depth of stream pools: 1.5' - 2.5'

Characterize non-pool habitat: run, riffle, glide, other: no pools but very slow, moderately deep (1-2') water, likely functionally similar to pools.

Vegetation: emergent, overhanging, dominant species: emergent: none; overhanging: arroyo willow and California walnut; banks: various spp. (from wetted edge up to bank) include: smartweed, horsetail, dock, umbrella sedge, gr. periwinkle, stinging nettle, trees

Substrate: mostly fine sand (riverwash)

Bank description: steep, incised on east side; terraced on west side; OHWMs approximately 2' high and ~35' apart.

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Several 6"+ steelhead observed rising to feed, bullfrog larva (refer to photo documentation), crayfish; slightly undercut banks and mud flats/terraces may serve as basking areas and "plop" points. Good quality CRLF habitat. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 01/09/2007  
(mm/dd/yyyy)

Site Assessment Biologists: Belt Travis  
(Last name) (first name) (Last name) (first name)

\_\_\_\_\_  
(Last name) (first name) (Last name) (first name)

Site Location: Site 6 (San Luis Obispo County; proposed crossing over San Luis Obispo Creek on Bunnel property east of Hwy 101: UTM 10 709.918E 3.899.623N (WGS84/NAD83) **+**  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway  
 Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 35' to 45'

Depth at bank full: 10' - 12'

Stream gradient: approx. 2%

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 5' X 10'

Maximum depth of stream pools: 1.5' - 2.5'

Characterize non-pool habitat: run, riffle, glide, other: stream is a riffle upstream and on to the northwest end of crossing; stream is a glide at near the southeast end of crossing, and becomes a riffle again downstream

Vegetation: emergent, overhanging, dominant species: emergent species include minimal water-cress, cattail, sedge, and grasses (approx. 5-10% cover); overhanging vegetation at about 50% cover with arroyo willow and alder

Substrate: 40% silt, 40% gravel, 20% cobbles or larger

Bank description: both banks of native soil covered with non-native species; slope is approx. 30%; steep; no evidence of undercutting

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Clear, cold flowing water with overhanging banks and no emergent vegetation. Wildlife observed included speckled dace and water striders. Moderate-quality California red-legged frog habitat. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 02/23/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Belt Travis  
(Last name) (first name) (Last name) (first name)

Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

Site Location: Site 7 (San Luis Obispo County; agricultural use bridge over San Luis Obispo Creek, from Montv Road. between SLO and Avila Beach: UTM: Zn 10. 709.660 E. 3.897.254 N) **+**  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S ).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway

Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (circle one). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 60'

Depth at bank full: 7' - 8'

Stream gradient: gradually sloping

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 5' X 10'

Maximum depth of stream pools: 1.5' - 2.5'

Characterize non-pool habitat: run, riffle, glide, other: run upstream of bridge transitions to a riffle downstream of bridge

Vegetation: emergent, overhanging, dominant species: dominant species are arroyo willow and western sycamore, with no emergent vegetation

Substrate: 75% gravel, 20% mud/silt, 5% cobble

Bank description: moderately sloping, mud-covered bank with rock riprap placed here; sycamore and willow overstory; understory vegetation includes greater periwinkle, horsetail, and mugwort

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Clear, cold flowing water with overhanging banks and no emergent vegetation. Wildlife observed included speckled dace and water striders. Moderate-quality California red-legged frog habitat. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 02/23/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Belt Travis  
(Last name) (first name) (Last name) (first name)

Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

Site Location: Site 8 (San Luis Obispo County; south side of San Luis Bay Drive Bridge over San Luis Obispo Creek, between SLO and Avila Beach: UTM: Zn 10. 709.646 E. 3.897.172 N)   
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway

Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (circle one). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: 25' - 40'

Depth at bank full: 4' - 5'

Stream gradient: gently sloping

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: 3' X 20'

Maximum depth of stream pools: 1.5'

Characterize non-pool habitat: run, riffle, glide, other: run and riffle

Vegetation: emergent, overhanging, dominant species: no emergent vegetation; overhead canopy consists of arroyo willow

Substrate: 70% gravel, 20% cobble, 10% mud/silt

Bank description: gradually sloping to steep, comprised of gravel and cobble; large sand bars are present

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Clear, cold water flows under the bridge, with overhanging willows and no emergent vegetation. Steelhead trout and speckled dace observed. Moderate-quality California red-legged frog habitat. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 03/14/2007  
(mm/dd/yyyy)

Site Assessment Biologists: Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

\_\_\_\_\_  
(Last name) (first name) (Last name) (first name)

Site Location: Site 9 (San Luis Obispo County; bermed stock ponds on Pollard property, between SLO and Avila Beach: UTM: Zn 10. 709516 E 3896520 N)   
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S ).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway  
 Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: approx. 50,000 sq. ft. (1.15 ac) Maximum depth: approx. 10'-12'

Vegetation: emergent, overhanging, dominant species: no emergents; few arroyo willows and coyote brush; mostly grasses and weedy forb groundcover observed at time of assessment.

Substrate: loamy soil

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: unknown-dry during assessment

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: N/A

Depth at bank full: \_\_\_\_\_

Stream gradient: \_\_\_\_\_

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: \_\_\_\_\_

Maximum depth of stream pools: \_\_\_\_\_

Characterize non-pool habitat: run, riffle, glide, other: \_\_\_\_\_

\_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_

\_\_\_\_\_

Substrate: \_\_\_\_\_

\_\_\_\_\_

Bank description: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: \_\_\_\_\_

Other aquatic habitat characteristics, species observations, drawings, or comments:

Bermed stock pond consisting of three rectangular ponds separated by berms; adjacent to ranchland and approximately 600 ft. west of SLO Creek corridor. These ponds apparently fill after rainfall and were completely dry at the time of the assessment. The berms are built up approximately 8' to 10' above ground level. The ponds are poor quality CRLF habitat, but there could be a potential for occupancy once filled after rains. Pacific chorus frog choruses were heard but none were visible. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

Site Assessment reviewed by \_\_\_\_\_  
(FWS Field Office) (date) (biologist)

Date of Site Assessment: 02/23/2006  
(mm/dd/yyyy)

Site Assessment Biologists: Hoetker Geoff  
(Last name) (first name) (Last name) (first name)

Belt Travis  
(Last name) (first name) (Last name) (first name)

Site Location: Site 10 (San Luis Obispo County; just northeast of Hwy 101 bridge over San Luis Obispo Creek, near Avila Beach, CA; UTM: Zn 10, 709440 E 3895978 N) **+**  
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

**\*\*ATTACH A MAP** (include habitat types, important features, and species locations)\*\*

Proposed project name: Bob Jones Pathway

Brief description of proposed action:  
 The proposed project would include construction of a bikeway approximately five miles in length and would extend from the San Luis Obispo Land Conservancy Octagon Barn in San Luis Obispo to the San Luis Obispo County's Ontario Road Staging Area near Avila in California. Several crossings of San Luis Obispo Creek and tributaries are proposed.

- 1) Is this site within the current or historic range of the CRF (circle one)? YES NO
- 2) Are there known records of CRF within 1.6 km (1 mi) of the site (circle one)? YES NO  
 If yes, attach a list of all known CRF records with a map showing all locations.

**GENERAL AQUATIC HABITAT CHARACTERIZATION**

*(if multiple ponds or streams are within the proposed action area, fill out one data sheet for each)*

**POND:**

Size: N/A Maximum depth: \_\_\_\_\_

Vegetation: emergent, overhanging, dominant species: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Substrate: \_\_\_\_\_  
 \_\_\_\_\_

**Perennial or Ephemeral** (circle one). If ephemeral, date it goes dry: \_\_\_\_\_

**Appendix D.**  
**California Red-legged Frog Habitat Site Assessment Data Sheet**

**STREAM:**

Bank full width: N/A

Depth at bank full: N/A

Stream gradient: low/gradually sloping

Are there pools (circle one)? YES NO

If yes,

Size of stream pools: \_\_\_\_\_

Maximum depth of stream pools: \_\_\_\_\_

Characterize non-pool habitat: run, riffle, glide, other: N/A

Vegetation: emergent, overhanging, dominant species: dominant species is arroyo willow, with some coyote brush and very few emergent spikerush

Substrate: mud/silt

Bank description: no bank; floodplain/overflow area with riparian overstory, located west of San Luis Obispo Creek

**Perennial or Ephemeral** (*circle one*). If ephemeral, date it goes dry: dry at time of site assessment

Other aquatic habitat characteristics, species observations, drawings, or comments:  
Ephemeral riparian area that is occasionally subjected to overflows from San Luis Obispo Creek. A portion of the proposed pathway would pass through this area. Poor California red-legged frog habitat, considering the ephemeral flows and lack of significant emergent vegetation. No CRLF observed.

**Necessary Attachments:**

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species location

## **ATTACHMENT C**

- Resumes



## TRAVIS L. BELT

Associate Biologist / Wetland Specialist / Project Manager

### EXPERIENCE SUMMARY

Mr. Belt has over five years of experience with natural resources management, in both California and Hawaii. He has surveyed and monitored endangered species populations, conducted botanical inventories, performed biological assessments and propagated native plants. Mr. Belt has prepared and participated in the preparation of numerous biological reports for private landowners and public agencies. In addition to biological expertise, Mr. Belt has implemented land rehabilitation and erosion control projects on military installations, public lands, and private properties.

### REPRESENTATIVE EXPERIENCE

Sensitive Species Surveys and Biological Reports: Mr. Belt has conducted numerous sensitive species surveys in California and Hawaii. He has designed and implemented focused surveys for special-status species including but not limited to lance-leaf catchfly (*Silene lanceolata*), purple amole (*Chlorogalum pupureum*), Pismo clarkia (*Clarkia speciosa*), Hawaiian hoary bat (*Lasiurus cinereus semotus*), and Nene (*Nesochen sandvicensis*). In addition, he has conducted protocol level surveys for California red-legged frog (*Rana aurora draytonii*) and arroyo toad (*Bufo californicus*). Mr. Belt has worked with Brian Mori (USFWS and CDFG permit holder), while conducting California red-legged frog and tiger salamander surveys on the Sate Route 156 project in Santa Cruz County, California. Working under the Biological Opinion at Fort Hunter Liggett, Mr. Belt conducted several protocol level surveys and population assessments of arroyo toad.

In addition to biological surveys, under supervision of approved biologists and authorization from respected agencies, Mr. Belt has relocated several sensitive species including steelhead trout, Morro shoulderband snail, and silvery legless lizard. Operating under Biological Opinions, Mr. Belt relocated approximately 43 steelhead trout on the Stenner Creek Bridge Replacement and the Picay Creek Bridge Repair Projects; and several Morro shoulder band snail and silvery legless lizard on the Los Osos Community Services District Sewer Project.

Representative biological reports that Mr. Belt has produced includes: California Department of Transportation Natural Environmental Study for State Route 180; San Luis Obispo County Mitigated Negative Declarations for Major Grading Permits; Biological Resources Survey Report, California red-legged frog Site Assessment Report, and Wetland Assessment Report for the Pennington Creek Fish Weir Repair in San Luis Obispo County; and several Habitat Mitigation and Monitoring Plans for Army Corps of Engineers mitigation requirements.

Biological Monitoring: Mr. Belt has implemented various monitoring projects related to special-status species and sensitive habitats. He has developed and implemented monitoring protocol for population viability analysis of endangered plant species including lance-leaf catchfly (*Silene lanceolata*) and Mauna Kea Pamakani (*Tetramolopium arenarium*). He has worked on long term monitoring programs such as Land Condition Trend Analysis and a *Pennisetum setacium* control program. Mr. Belt has developed an Army Corps of Engineers approved monitoring program for the Boysen Ranch Wetland Creation Project in San Luis Obispo, California. In addition, Mr. Belt has monitored the progress of plantings and invasive species on numerous revegetation projects and has attended several workshops on quantifying physical attributes of sensitive species and habitats.

Construction Monitoring: Mr. Belt has eight years of residential and commercial construction experience. He has participated in the management and implementation of construction projects throughout San Luis Obispo County. His construction experience gives him knowledge that is critical when monitoring construction projects in biologically sensitive areas. Examples of projects that he has monitored include: Strand Way Waterline Replacement in Oceano, California, Foothill Bridge Replacement Project in San Luis Obispo, California, and Picay (Romero) Creek Bridge Repair Project in Montecito, California.

*TRAVIS L. BELT*

*Associate Biologist / Wetland Specialist / Project Manager*

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Land Rehabilitation: Mr. Belt has implemented revegetation and erosion control projects on military and public lands. He has completed erosion control projects on trails that are utilized by military equipment, and revegetated newly constructed ammunition supply bunkers. He has developed Army Corps of Engineers approved Habitat Mitigation and Monitoring Plans for numerous projects throughout San Luis Obispo County. Mr. Belt has experience propagating, installing, and maintaining California native plants on revegetation projects such as the Chumash Creek Mitigation Project in San Luis Obispo County. In addition, he has installed creek bank stabilization measures on Chumash and Chorro Creeks.

## **EDUCATION**

B.S., 2001 Forestry and Natural Resources Management, California Polytechnic State University, San Luis Obispo, CA. Concentration: Watershed, Chaparral, and Fire Management (June 2001)

## **TRAINING**

Surveying, Handling, and Monitoring Techniques for Mojave Desert Tortoise, Conducted by The Desert Tortoise Council in Ridgecrest California, November 4 and 5, 2006.

Army Corps of Engineers Wetland Delineation Training. Conducted by Wetland Training Institute in San Diego California, July 2006.

San Joaquin Kit Fox Habitat Evaluation and Mitigation Workshop presented by the County of San Luis Obispo Planning and Building Department, California Department of Fish and Game, and U.S. Fish and Wildlife Service in San Luis Obispo, California, 2005.

CEQA Workshop Series presented by the Association of Environmental Professionals in San Luis Obispo, California, 2004 and 2005.

Hawaii State Restricted Use Pesticide Applicators Certification. Certification #H71975 issued by State of Hawaii Department of Agriculture, on 4/26/2004

B3 Helicopter Safety Training, Conducted by Federal Office of Aviation Safety in Hilo Hawaii, July 2004

Quantifying Vegetation Attributes Workshop conducted by International Society of Vegetation Sciences. Kona, Hawaii, 2004.

Applied Uses of ArcView-Desktop for Natural Resources Professionals, University of Hawaii in Hilo. 2004

## **PROFESSIONAL HISTORY**

Associate Biologist, August 2005 to present, Morro Group, Inc.

Natural Resource Specialist, October 2003 to August 2005, Colorado State University Center for Environmental Management of Military Lands, Pohakuloa Training Area, Hawaii.

Integrated Training Area Management (ITAM) Field Crew, April 2003 to October 2003, Colorado State University Center for Environmental Management of Military Lands, Fort Hunter Liggett, California.

Intern, February 2000 to June 2001, County of San Luis Obispo Department of Parks and Recreation.

## **GEOFF HOETKER**

Biologist / Wetlands Specialist / Project Manager

### **EXPERIENCE SUMMARY**

Mr. Hoetker has over eight years of consulting experience as a wildlife biologist and field botanist in California, and over three years of experience as a Wetland Training Institute certified wetland delineator. He has extensive experience preparing technical reports, including preliminary environmental constraints analyses, survey reports, Endangered Species Act (ESA) Section 7 Biological Assessments, Caltrans Natural Environment Studies, California Environmental Quality Act (CEQA) documentation, restoration plans, mitigation and monitoring plans, and wetland delineations. Mr. Hoetker has conducted compliance monitoring for numerous small- to large-scale construction projects in San Luis Obispo County and other areas in California. In addition, Mr. Hoetker has conducted environmental project management, agency coordination, and permitting for several projects, including ESA Section 7 formal and informal consultations with U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS); Army Corps of Engineers (ACOE) Section 404 Nationwide Permit Applications, Regional Water Quality Control Board (RWQCB) Section 401 Water Quality Certifications, and California Department of Fish and Game (CDFG) Section 1600 Streambed Alteration Agreements.

### **REPRESENTATIVE EXPERIENCE**

Sensitive Species Surveys and Biological Reports Mr. Hoetker has extensive experience conducting sensitive wildlife and botanical surveys for various biological reports in San Luis Obispo County and other areas of California. He has conducted numerous USFWS protocol-level surveys and has prepared several Caltrans Natural Environment Studies, Biological Assessments, and California red-legged frog survey reports. Mr. Hoetker is permitted to survey for the federally endangered Morro shoulderband snail, and has conducted several protocol surveys for this species. Mr. Hoetker has attended several sensitive species workshops, including the Identification and Ecology of Sensitive Amphibians and Reptiles of Southern California, California Tiger Salamander Ecology and Survey Techniques Workshop presented by The Western Section of the Wildlife Society, and a California Tiger Salamander Workshop sponsored by the Alameda County Conservation Partnership and the Contra Costa Water District Los Vaqueros Reservoir and Watershed. Mr. Hoetker has extensive experience with general special-status species surveys, amphibian identification, handling and relocation, raptor handling, and small mammal trapping. He has assisted SNEI with desert tortoise surveys and monitoring for a construction project north of Las Vegas, Nevada. Mr. Hoetker has also served as a USFWS-approved biologist for California red-legged frog and a NMFS-approved biologist for steelhead on projects requiring federal Biological Opinions.

Representative habitat/biological assessment, CEQA, surveying, and document production experience includes the Turri Road Bridge Replacement Project, AT&T End Cap Project, Holland Property Botanical Report, Wachsman Vernal Pool Habitat Assessment, Olsen Ranch-Beechwood Vernal Pool Habitat Assessment, Lewis Avenue Bridge Project at Atascadero Creek NES/BA and MND, Four Creeks EIR, Coalinga Wastewater Treatment Plant EIR, Morro Bay-Cayucos Bike Path Constraints, Crystal Oaks Constraints, Fresno Rt. 180 Adoption Study, Brisco Rd/Halcyon Rd/Hwy 101 Interchange Project NES/BA, and Bob Jones Pathway Project NES/BA.

California Red-legged Frog Site Assessments, Protocol Surveys, and Monitoring: Mr. Hoetker has conducted California red-legged frog site assessments, protocol-level surveys, and/or construction monitoring for several projects in California, including: Lopez Dam Seismic Remediation Project, Arroyo Grande Creek Flood Control Project, Los Berros Creek Bank Stabilization Project, Turri Road Bridge Replacement Project, Wineman Road Culvert Replacement Project, Lewis Avenue Bridge Project on Atascadero Creek, and numerous other County of San Luis Obispo Public Works projects. In addition, Mr. Hoetker has conducted California red-legged frog monitoring and capture, handling, and relocation of California red-legged frogs at Camp Roberts Army National Guard Training Facility under the supervision of Julie Eliason and Susan Johnson. Mr. Hoetker was also authorized to survey for, relocate, and monitor California red-legged frogs under the Biological Opinion (1-8-01-F-60) for the South Higuera Street Bridge Project, San Luis Obispo County, California. Mr. Hoetker has attended the California Red-legged Frog Workshop presented by the Alameda County Conservation Partnership, which included extensive instruction on California red-legged frog ecology, survey techniques for all life stages, handling, and relocation.



Wetland Delineations Mr. Hoetker has conducted several wetland delineations for public and private projects in San Luis Obispo County. Representative wetland delineation projects include the Turri Road Bridge Replacement Project, Lewis Avenue Bridge Project at Atascadero Creek, LOCSO Los Osos Valley Road Swale Wetland Delineation, Mountainbrook Community Church, the Four Creeks Rezoning Project, Palace Avenue Wetland Delineation, Cold Canyon Landfill, Froom Ranch, County of San Luis Obispo Office of Education, and Brisco Rd/Halcyon Rd/Hwy 101 Interchange Project.

GPS Resource Mapping Mr. Hoetker is proficient in the use of the Trimble Pathfinder Pro XR Global Positioning System (GPS) and regularly utilizes GPS to delineate wetland areas, map instream and vegetative habitats, morphological components of riparian areas, sensitive resource areas and habitats containing special-status plant or animal species, and as a navigational aid to relocate previously surveyed resource positions and monitoring sites.

Environmental Monitoring Mr. Hoetker has been involved with various environmental monitoring projects related to special-status species and sensitive habitats, including road and bridge construction projects, species relocation, and mitigation project success evaluation. Representative projects include construction monitoring for the AT&T Fiber Optic Cable Upgrade, La Paloma Generating Project, Lopez Dam Seismic Remediation Project, Marsh Creek Pipeline Replacement Project, San Luis Obispo Creek Dam Removal and Steelhead Habitat Enhancement Project, Vandenberg Air Force Base Fiber Optic Installation Project, AT&T End Cap Bakersfield to San Luis Obispo Project, Thunderbird Wells Pipeline Project, City of Atascadero Sewer Siphon Project, Stenner Creek-Foothill Blvd. Bridge Project, Congregation Beth David Project, and numerous County of San Luis Obispo Public Works projects.

## EDUCATION

M.S. Candidate Biological Sciences, California Polytechnic State University, San Luis Obispo  
Research involves analysis of telemetry data using GIS to estimate San Joaquin kit fox home range on Camp Roberts Army National Guard Training Facility, California.

B.S. 1997 Biology, California State University, Bakersfield  
Awarded Outstanding Graduating Senior in Biology

## TRAINING

California Anostraca (Fairy Shrimp) and Notostraca (Tadpole Shrimp) Identification Class presented by Mary Belk at UC Davis, California, 2006. Course was completed with 100% correct identification of specimens.

Desert Tortoise Surveying, Monitoring, and Handling Techniques Workshop presented by The Desert Tortoise Council in Ridgecrest, California, 2006.

California Tiger Salamander Workshop presented by the Alameda County Conservation Partnership and the Contra Costa Water District Los Vaqueros Reservoir and Watershed, in Livermore, California, 2006.

California Red-legged Frog Workshop presented by the Alameda County Conservation Partnership in Livermore, California, 2005. Instructors included Norman J. Scott and Galen B. Rathbun.

CEQA Workshop Series presented by the Association of Environmental Professionals in San Luis Obispo, California, 2004 and 2005.

Wetland Delineation Training presented by Wetland Training Institute in San Diego, California, 2004.

California Tiger Salamander Workshop: Ecology and Survey Techniques presented by the Western Section of the Wildlife Society at Sonoma State University, California, 2003.

Morro Shoulderband Snail Identification Training presented by Cal Poly San Luis Obispo Biological Sciences Professor Emeritus Tom Richards in Los Osos, California, 2003.

San Joaquin Kit Fox Habitat Evaluation and Mitigation Workshop presented by the County of San Luis Obispo Planning and Building Department, California Department of Fish and Game, and U.S. Fish and Wildlife Service in San Luis Obispo, California, 2003 and 2005.

Identification and Ecology of Sensitive Amphibians and Reptiles of Southern California presented by the Western Section of The Wildlife Society in Riverside, California, 2003.

Biological Assessment for Expediting Section 7 Consultations presented by the U. S. Fish and Wildlife Service and The Wildlife Society in Sacramento, California, 2001.

*GEOFF HOETKER*

*Biologist / Wetlands Specialist / Project Manager*

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## **PERMITS AND AUTHORIZATIONS**

Permitted to conduct protocol survey activities for Morro shoulderband snail under Recovery Permit TE-823124-2  
Authorized to survey for, relocate, and monitor CRLF under the Biological Opinion for: (1-8-01-F-60) South  
Higuera Street Bridge Project, San Luis Obispo County, California.

## **PUBLICATIONS**

Hoetker, G. M. and K. W. Gobalet. 1999. Predation on Mexican free-tailed bats by burrowing owls in California.  
*Journal of Raptor Research* 33(4):333-335.

Hoetker, G. M. and K. W. Gobalet. 1999. Fossil razorback sucker (Pisces: Catostomidae, *Xyrauchen texanus*) from  
southeastern California. *Copeia* 99(3):755-759.

## **PROFESSIONAL AFFILIATIONS**

California Native Plant Society  
Western Section of the Wildlife Society  
Association of Environmental Professionals

## **PROFESSIONAL HISTORY**

Morro Group, Inc., 2004 to present, Biologist / Wetlands Specialist / Project Manager  
Essex Environmental, 2001 to 2004, Associate Biologist  
Cal Poly State University, 2000 to 2001, Wildlife Technician  
Malamma and Associates, 2000 to 2001, Associate Biologist  
Jones and Stokes Associates, Inc., 1999, Wildlife Biologist

# Appendix H List of Species Observed

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**Plant Species Observed within the Bob Jones Pathway BSA  
(February 2006 through April 2008)**

Scientific Name	Common Name	Family
<i>Acacia</i> sp.	acacia (ornamental)	Fabaceae
<i>Acer negundo</i> var. <i>californicum</i>	box elder	Aceraceae
<i>Aira caryophyllaea</i>	silver hairgrass	Poaceae
<i>Alnus rhombifolia</i>	white alder	Betulaceae
<i>Anagallis arvensis</i>	scarlet pimpernel	Primulaceae
<i>Anaphalis margaritacea</i>	pearly everlasting	Asteraceae
<i>Anthemis cotula</i>	mayweed	Asteraceae
<i>Artemisia californica</i>	California sagebrush	Asteraceae
<i>Artemisia douglasiana</i>	mugwort	Asteraceae
<i>Arundo donax</i> ***	giant reed	Poaceae
<i>Asclepias</i> sp.	milkweed	Asclepiadaceae
<i>Asphodelus fistulosus</i> **	onionweed	Liliaceae
<i>Avena</i> spp.**	wild oat	Poaceae
<i>Baccharis pilularis</i>	coyotebrush	Asteraceae
<i>Brassica nigra</i> **	black mustard	Brassicaceae
<i>Bromus catharticus</i>	rescuegrass	Poaceae
<i>Bromus diandrus</i> **	ripgut brome	Poaceae
<i>Bromus hordeaceus</i> *	soft chess brome	Poaceae
<i>Bromus madritensis</i> ssp. <i>rubens</i> ***	red brome	Poaceae
<i>Calystegia macrostegia</i>	morning-glory	Convolvulaceae
<i>Cardaria draba</i> **	hoary cress	Brassicaceae
<i>Carduus pycnocephalus</i> **	Italian thistle	Asteraceae
<i>Carpobrotus edulis</i> ***	iceplant	Aizoaceae
<i>Chamomilla suaveolens</i>	pineappleweed	Asteraceae
<i>Cirsium vulgare</i> **	bull thistle	Asteraceae
<i>Clarkia unguiculata</i>	elegant clarkia	Onagraceae
<i>Claytonia perfoliata</i>	miner's lettuce	Portulacaceae
<i>Conium maculatum</i> **	poison hemlock	Apiaceae
<i>Convolvulus arvensis</i>	bindweed	Convolvulaceae
<i>Conyza canadensis</i>	horseweed	Asteraceae
<i>Cotula coronopifolia</i>	brass buttons	Asteraceae
<i>Cynodon dactylon</i> **	Bermuda grass	Poaceae
<i>Cyperus eragrostis</i>	tall flat-sedge	Cyperaceae
<i>Deschampsia cespitosa</i> .	California hairgrass	Poaceae
<i>Dipsacus sativus</i> **	Fuller's teasel	Dipsacaceae
<i>Distichlis spicata</i>	saltgrass	Poaceae
<i>Dudleya lanceolata</i>	southern California dudleya	Crassulaceae
<i>Dudleya pulverulenta</i> ssp. <i>pulverulenta</i> ,	California chalk lettuce	Crassulaceae
<i>Eleocharis macrostachya</i>	common spikerush	Cyperaceae

Scientific Name	Common Name	Family
<i>Epilobium fuschia</i>	California fuchsia	Onagraceae
<i>Equisetum arvense</i>	common horsetail	Equisetaceae
<i>Ericameria ericoides</i>	goldenbush	Asteraceae
<i>Eriogonum fasciculatum</i>	California buckwheat	Polygonaceae
<i>Erodium cicutarium</i> *	red-stemmed filaree	Geraniaceae
<i>Eschscholzia californica</i>	California poppy	Papaveraceae
<i>Eucalyptus globulus</i> **	blue gum	Myrtaceae
<i>Euphorbia lathyris</i>	caper spurge	Euphorbiaceae
<i>Foeniculum vulgare</i> ***	fennel	Apiaceae
<i>Galium aparine</i>	common bedstraw	Rubiaceae
<i>Geranium dissectum</i> **	wild geranium	Geraniaceae
<i>Gilia achilleifolia</i> ssp. <i>achilleifolia</i>	California gilia	Polemoniaceae
<i>Hazardia squarrosa</i>	saw-toothed goldenbush	Asteraceae
<i>Heteromeles arbutifolia</i>	toyon	Rosaceae
<i>Heterotheca grandiflora</i>	telegraph weed	Asteraceae
<i>Hirschfeldia incana</i> **	perennial mustard	Brassicaceae
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i> **	Mediterranean barley	Poaceae
<i>Hordeum murinum</i> **	foxtail barley	Poaceae
<i>Horkelia cuneata</i>	wedge-leaf horkelia	Rosaceae
<i>Juncus acutus</i> ssp. <i>leopoldii</i>	spiny rush	Juncaceae
<i>Juncus phaeocephalus</i>	brown-headed rush	Juncaceae
<i>Juglans californica</i> var. <i>californica</i>	southern California black walnut	Juglandaceae
<i>Lactuca serriola</i>	prickly lettuce	Asteraceae
<i>Lobularia maritime</i> *	sweet alyssum	Brassicaceae
<i>Lonicera</i> sp.	honeysuckle	Caprifoliaceae
<i>Lotus corniculatus</i>	birdsfoot trefoil	Fabaceae
<i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish lotus	Fabaceae
<i>Lotus scoparius</i>	deerweed	Fabaceae
<i>Lolium multiflorum</i> **	Italian rye-grass	Poaceae
<i>Lolium perenne</i>	perennial ryegrass	Poaceae
<i>Lupinus albifrons</i>	perennial lupine	Fabaceae
<i>Lupinus nanus</i>	sky lupine	Fabaceae
<i>Malva nicaeensis</i>	bull mallow	Malvaceae
<i>Marah fabaceus</i>	California manroot	Cucurbitaceae
<i>Marrubium vulgare</i> *	horehound	Lamiaceae
<i>Medicago polymorpha</i> *	bur-clover	Fabaceae
<i>Melilotus alba</i>	melilotus	Fabaceae
<i>Melilotus officinalis</i>	yellow sweetclover	Fabaceae
<i>Mimulus aurantiacus</i>	bush monkeyflower	Scrophulariaceae
<i>Nassella pulchra</i>	purple needlegrass	Poaceae
<i>Opuntia ficus-indica</i>	mission cactus	Cactaceae

Scientific Name	Common Name	Family
<i>Oxalis corniculata</i>	yellow wood-sorrel	Oxalidaceae
<i>Paspalum dilatatum</i>	dallisgrass	Poaceae
<i>Pennisetum setaceum**</i>	fountaingrass	Poaceae
<i>Phacelia malvifolia</i>	stinging phacelia	Hydrophyllaceae
<i>Phalaris aquatica</i>	Harding grass	Poaceae
<i>Phalaris canariensis</i>	canarygrass	Poaceae
<i>Pholistoma auritum</i>	fiesta flower	Hydrophyllaceae
<i>Picris echioides*</i>	bristly ox-tongue	Asteraceae
<i>Pinus radiata</i>	Monterey pine	Pinaceae
<i>Plantago erecta</i>	California plantain	Plantaginaceae
<i>Plantago lanceolata*</i>	English plantain	Plantaginaceae
<i>Platanus racemosa</i>	western sycamore	Platanaceae
<i>Polygonum arenastrum</i>	common knotweed	Polygonaceae
<i>Polypogon monspeliensis</i>	rabbitsfoot grass	Poaceae
<i>Populus balsamifera</i> ssp. <i>trichocarpa</i>	black cottonwood	Salicaceae
<i>Populus fremontii</i> ssp. <i>fremontii</i>	Fremont cottonwood	Salicaceae
<i>Quercus agrifolia</i>	coast live oak	Fagaceae
<i>Raphanus</i> spp.*	wild radish	Brassicaceae
<i>Rhamnus</i> sp.	coffeberry	Rhamnaceae
<i>Ricinus communis*</i>	castor bean	Euphorbiaceae
<i>Rorripa nasturtium-aquaticum</i>	common water-cress	Brassicaceae
<i>Rosa californica</i>	California rose	Rosaceae
<i>Rubus ursinus</i>	California blackberry	Rosaceae
<i>Rumex acetosella**</i>	sheep sorrel	Polygonaceae
<i>Rumex crispus</i>	curly dock	Polygonaceae
<i>Rumex</i> sp.	dock	Polygonaceae
<i>Salix lasiolepis</i>	arroyo willow	Salicaceae
<i>Salvia mellifera</i>	black sage	Lamiaceae
<i>Salvia spathacea</i>	hummingbird sage	Lamiaceae
<i>Sambucus mexicana</i>	blue elderberry	Caprifoliaceae
<i>Schinus molle*</i>	Peruvian peppertree	Anacardiaceae
<i>Senecio mikanioides</i>	Cape ivy	Asteraceae
<i>Senecio vulgaris</i>	common groundsel	Asteraceae
<i>Silene gallica</i>	common catchfly	Caryophyllaceae
<i>Silybum marianum*</i>	milk thistle	Asteraceae
<i>Solanum nigrum</i>	black nightshade	Solanaceae
<i>Sonchus oleraceus</i>	common sow-thistle	Asteraceae
<i>Sparganium</i> sp.	bur-reed	Typhaceae
<i>Stachys bullata</i>	California hedge-nettle	Lamiaceae
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>	common snowberry	Caprifoliaceae
<i>Toxicodendron diversilobum</i>	poison oak	Anacardiaceae
<i>Trifolium repens</i>	white clover	Fabaceae

Scientific Name	Common Name	Family
<i>Trifolium wormskioldii</i>	cow clover	Fabaceae
<i>Tropaeolum majus</i>	garden nasturtium	Tropaeolaceae
<i>Umbellularia californica</i>	California bay	Lauraceae
<i>Urtica dioica</i>	stinging nettle	Urticaceae
<i>Verbena lasiostachys</i>	western vervain	Verbenaceae
<i>Veronica anagallis-aquatica</i>	water speedwell	Scrophulariaceae
<i>Vicia benghalensis</i>	purple vetch	Fabaceae
<i>Vinca major</i> **	greater periwinkle	Apocynaceae
<i>Viola</i> sp.	violet (ornamental)	Violaceae
<i>Vulpia myuros</i> **	rattail fescue	Poaceae
<i>Xanthium strumarium</i>	rough cocklebur	Asteraceae

\* Cal-IPC invasiveness rating of Limited.

\*\* Cal-IPC invasiveness rating of Moderate.

\*\*\* Cal-IPC invasiveness rating of High.

**Plant Species Observed within the Bob Jones Pathway BSA  
(February 2006 through April 2008)**

Scientific Name	Common Name
<i>Sceloporus occidentalis</i>	western fence lizard
<i>Butorides virescens</i>	green heron
<i>Cathartes aura</i>	turkey vulture
<i>Zenaida macroura</i>	mourning dove
<i>Archilochus alexandri</i>	black-chinned hummingbird
<i>Petrochelidon pyrrhonota</i>	cliff swallow
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Cathartes aura</i>	turkey vulture
<i>Sayornis nigricans</i>	black phoebe
<i>Corvus brachyrhynchos</i>	American crow
<i>Cistothorus palustris</i>	marsh wren
<i>Euphagus cyanocephalus</i>	Brewer's blackbird
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Pipilo maculatus</i>	spotted towhee
<i>Pipilo crissalis</i>	California towhee
<i>Pheucticus melanocephalus</i>	black-headed grosbeak
<i>Spermophilus beecheyi</i>	California ground squirrel
<i>Lepus californicus</i>	black-tailed jackrabbit

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# Appendix I Photo Documentation

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**Photo 1:**

Northeast view of the northernmost section of the proposed new bike path route, beginning along the east side of South Higuera Street in San Luis Obispo. The Octagon Barn is visible in the background. The white dashed line represents the approximate location of the proposed route.

Photo taken January 10, 2006.



**Photo 2:**

Southwest view of the proposed new bike path route along the west side of South Higuera Street. The white dashed line represents the approximate location of the proposed route.

Photo taken January 10, 2006.



**Photo 3:**

Another view of the proposed new bike path route along the west side of South Higuera Street. The white dashed line represents the approximate location of the proposed route.

Photo taken January 10, 2006.



**Photo 4:**

Southwest view of SLO Land Conservancy Property. The white dashed line represents the approximate location of the proposed route.

Photo taken February 24, 2006.



**Photo 5:**

West view of location of proposed South Higuera Bridge (BR-A) crossing of SLO Creek. The white dashed line represents the approximate location of the orientation of the proposed bridge and route.

Photo taken February 24, 2006.



**Photo 6:**

East view of in-stream and vegetative conditions near the proposed South Higuera Bridge (BR-A) crossing of SLO Creek. Note riparian vegetation in the overstory and sparse emergent vegetation in the streambed.

Photo taken February 24, 2006.



**Photo 7:**

South view of the proposed new bike path route along the east side of South Higuera Street north of Cloverridge Lane. The white dashed line represents the approximate location of the proposed route.

Photo taken January 10, 2006.



**Photo 8:**

North view of the proposed route along the east side of South Higuera Street north of Cloverridge Lane. The oval represents the approximate location of RSP that would be installed to support the trail. Some riparian vegetation would be impacted along the SLO Creek riparian corridor (orientation of the creek depicted by dark dashed line).

Photo taken January 10, 2008.



**Photo 9:**

Intersection of Cloverridge Lane and Venado Lane. The white dashed line represents the approximate location of the proposed route.

Photo taken July 11, 2006.



**Photo 10:**

Southeast view of the proposed Bunnell Bridge (BR-B) crossing of SLO Creek. The white dashed line represents the approximate location of the orientation of the proposed bridge and route.

Photo taken July 11, 2006.



**Photo 11:**

Close-up of conditions of SLO Creek at the location of the proposed Bunnell Bridge (BR-B). The riparian overstory at this location is dense and emergent vegetation is dense to non-existent. Juvenile steelhead were observed in the creek at this location.

Photo taken July 11, 2006.



**Photo 12:**

View of bank and emergent vegetation near the proposed Bunnell Bridge (BR-B).

Photo taken July 11, 2006.