

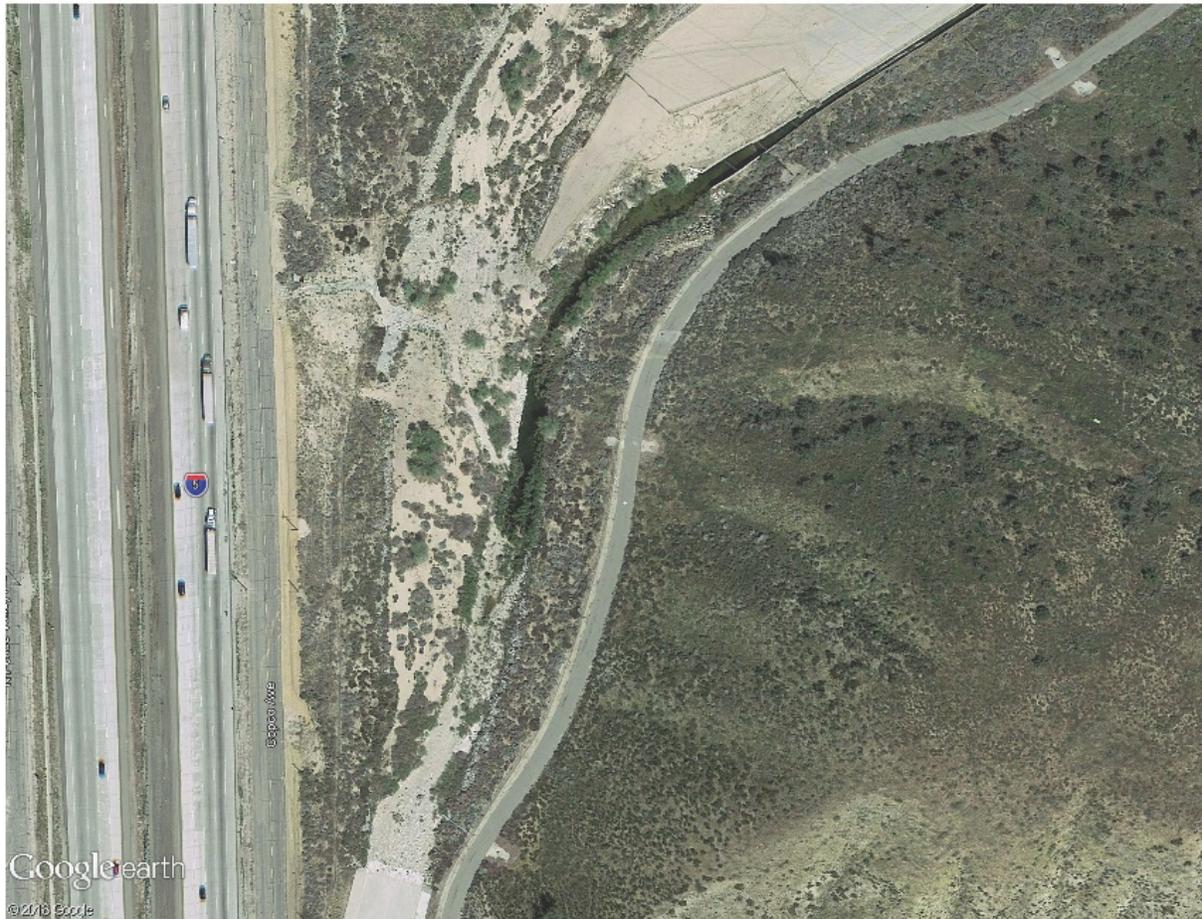
California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 5/14/18

Site Assessment Biologists: Carbiener, Michael Pitts, Sheila

Site Location: Site 1, Gorman Bypass Channel, Los Angeles County UTM: 34°45'05.5"N, 118°47'39.3"W

South State Water Project Relicensing



Imagery date 4/12/2018



Photo 1. Pool at base of spillway. Looking upstream.



Photo 2. Typical view of dry section below pool

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 1, Page 3)

Stream:

Bank Full Width: 68 feet **Depth at Bank Full:** 12 feet
Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: 200 feet at base of spillway

Maximum depth of stream pools: 6 feet

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

Dry at the time of the survey but appears to be riffle/run habitat below main pool when wetted.

Vegetation: emergent, overhanging, dominant species:

Dense willow thickets along channel. Otherwise mostly not vegetated.

Substrate: cobble 50%, sand 30%, gravel 20%

Bank description:

left bank is riprap and high gradient slope, right bank is moderate gradient earth.

Perennial or Ephemeral. If ephemeral, date it goes dry: Mostly dry except for pool at base of spillway which appears permanent or nearly so.

Other observations: bullfrogs, largemouth bass and channel catfish are present in the pool. Stream below is dry. Photos: CRLF Site 1_1, CRLF Site 1_2, CRLF Site 1_3, CRLF Site 1_4

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 5/14/18

Site Assessment Biologists: Carbiener Michael Pitts, Sheila

Site Location: Site 2, Los Alamos Campground, Los Angeles County UTM: 34°42'09.4"N 118°48'35.9"W

South State Water Project Relicensing



Imagery Date 4/12/2018



Photo1. Main swale in campground

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 2, Page 3)

Stream:

Bank Full Width: 3-5 feet **Depth at Bank Full:** 1-2 feet

Stream Gradient: 2%

Are there pools? YES NO

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Dry swales

Vegetation: emergent, overhanging, dominant species:

Swales are vegetated with upland species including grasses and sage

Substrate: silt

Bank description:

shallow swales

Perennial or Ephemeral. If ephemeral, date it goes dry: always dry except during heavy rains

Other observations: Dry arid campground with several swales that flow out of the hillside toward Los Alamos Creek. No evidence of ponding water.

Photos: CRLF Site 2_1, CRLF Site 2_2

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/26/18

Site Assessment Biologists: Carbiener, Michael

Vander Meulen, Jacob

Site Location: Site 3, Los Alamos and Gorman Confluence area, UTM: 34°42'05.1"N 118°47'43.4"W

South State Water Project Relicensing



Imagery Date 4/12/2018



Photo 1. Pool habitat looking downstream.



Photo 2. Showing typical habitat within site.

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 3, Page 3)

Stream:

Bank Full Width: 40 feet **Depth at Bank Full:** 4 feet

Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: 10 feet

Maximum depth of stream pools: 2 feet

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

Run 75%, riffle 23%, pool 2%

Vegetation: emergent, overhanging, dominant species:

Emergent cover of sedges and cattails (45%), willows overhanging (65%), willow and cottonwood overhead heavy riparian canopy.

Substrate: sand 80%, silt 20%

Bank description:

Banks are nearly non-existent within channel at most locations. Some undercut banks with structure occur. The entire stream is within a deeply incised channel (50ft)

Perennial or Ephemeral. **If ephemeral, date it goes dry:** _____

Other observations: adult and juvenile chorus frogs and fence lizard observations. Very thick vegetation in channel and overhanging channel. Mud/silt throughout and evidence of high flows.

Photos: CRLF Site 3_1, CRLF Site 3_2, CRLF Site 3_3, CRLF Site 3_4, CRLF Site 3_5, CRLF Site 3_6, CRLF Site 3_7

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/26/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 4. Gorman Creek, Los Angeles County, UTM: 34°41'12.6"N 118°47'20.2"W





Photo 1. Riparian area looking at stream channel. Extremely overgrown.



Photo 2. Looking downstream.

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 4, Page 3)

Stream:

Bank Full Width: 60 feet **Depth at Bank Full:** 8 feet

Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: 100 feet

Maximum depth of stream pools: 4 feet

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

Run 80, riffle 15%, pool 5%

Vegetation: emergent, overhanging, dominant species:

Watercress and bulrushes emergent 30%, willow, cattail, and bulrushes overhanging, 20%. Dense riparian canopy of willow and cottonwood, western skunk cabbage present outside of channel. Emergent vegetation is associated with areas of flowing water. Pools are typical absent of emergent vegetation.

Substrate: silt 60%, sand 40%

Bank description:

low gradient, mud and silt

Perennial or Ephemeral. If ephemeral, date it goes dry: _____

Other observations: Western toad and fence lizard obs. This is an artificially flow-supplemented stream with very dense vegetation.

Photos: CRLF Site 4_1, CRLF Site 4_2, CRLF Site 4_3, CRLF Site 4_4, CRLF Site 4_5, CRLF Site 4_6

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop analysis 6/7/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 5. Unnamed tributary to Pyramid Lake, LA County, UTM: 34°41'48.9"N 118°45'51.9"W



1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 5, Page 2)

Stream:

Bank Full Width: 6 feet **Depth at Bank Full:** Unknown, likely less than 5 feet
Stream Gradient: 1%

Are there pools? YES **NO**

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Dry channel/ wash appears to flow only during storm events. Likely riffle/run when flowing

Vegetation: emergent, overhanging, dominant species:

Channel not vegetated. Scrub and grass habitat throughout.

Substrate: sand

Bank description:

Unknown but appears relatively shallow and sand

Perennial or Ephemeral. If ephemeral, date it goes dry: Always dry except during heavy rain events

Other observations: This appears to be a dry wash that flows only during heavy rains. Google Earth history showed no water in channel during all available times.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/25/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 6: Piru Creek upstream of Pyramid Lake, LA County, UTM: 34°39'30.5"N 118°48'21.2W

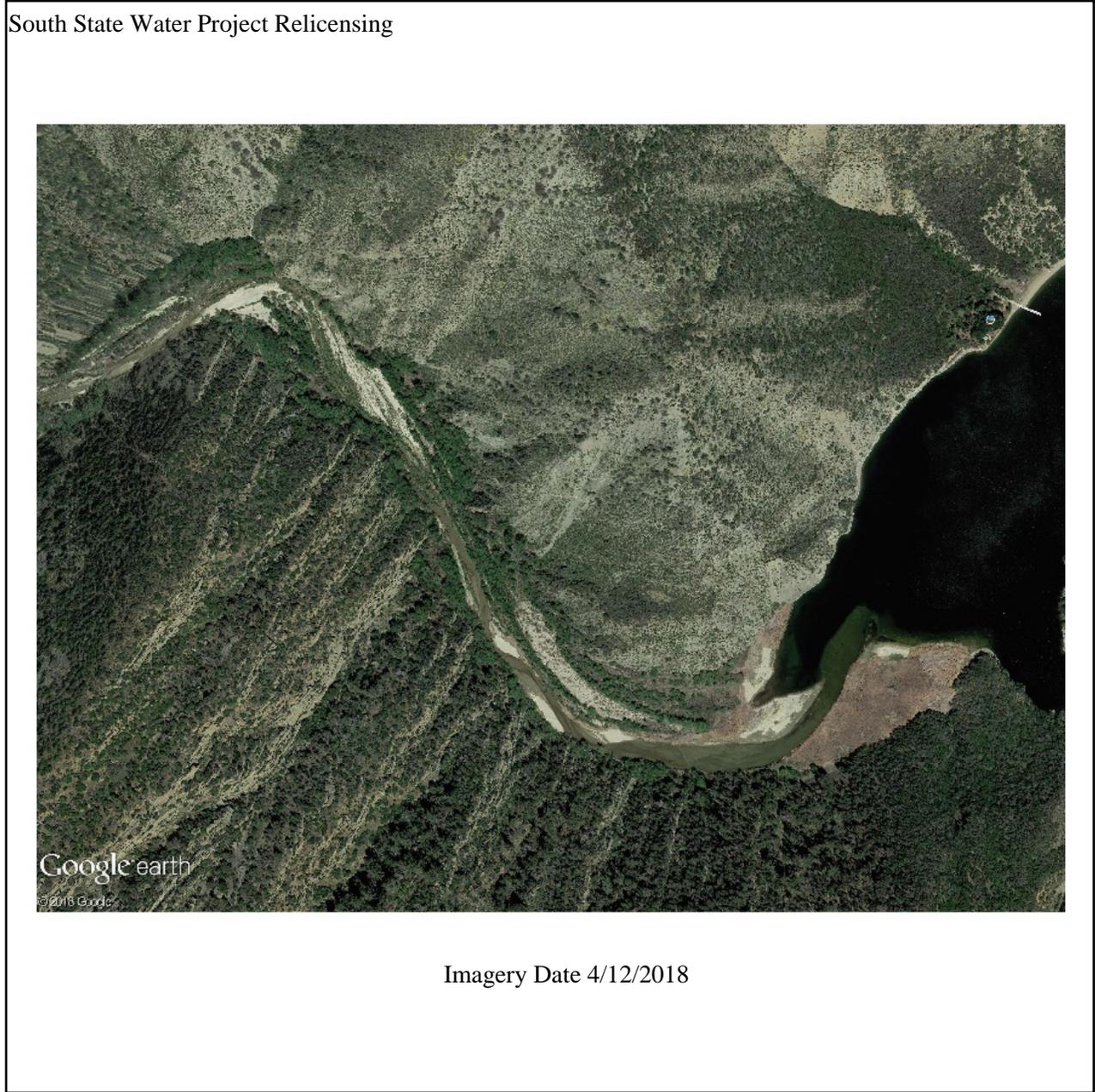




Photo taken May 16, 2018



Photo taken July 25, 2018

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 6, Page 3)

Stream:

Bank Full Width: 90 feet **Depth at Bank Full:** 10 feet
Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: 50-100 feet

Maximum depth of stream pools: 4 feet

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

Mostly run habitat with riffles and glides mixed in, when not inundated by lake

Vegetation: emergent, overhanging, dominant species:

Willow and cattail along margins. Sycamore and cottonwood in galleries

Substrate: sand/gravel

Bank description:

shallow banks within a deep canyon

Perennial or Ephemeral. If ephemeral, date it goes dry: _____

Other observations: The majority of the stream within the Project boundaries is frequently inundated by the lake. Predatory fish from the lake may pose a risk.

Photos: CRLF Site 6_1 may, CRLF Site 6_1, CRLF Site 6_2, CRLF Site 6_3, CRLF Site 6_4

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop Analysis 6/12/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 7, Unnamed tributary to Pyramid Lake, LA County, UTM: 34°39'56.1"N 118°45'14.9"W

South State Water Project Relicensing



Imagery Date 4/12/2018

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 7, Page 2)

Stream:

Bank Full Width: 10 feet **Depth at Bank Full:** Unknown; probably less than 2 feet
Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Dry wash with sandy substrate

Vegetation: emergent, overhanging, dominant species:

Willow thicket where channel enters Pyramid Lake, otherwise mostly not vegetated

Substrate: sand

Bank description:

wide sandy wash with eroded sandy banks

Perennial or Ephemeral. If ephemeral, date it goes dry: Appears to only flow during storm events

Other observations: This tributary to Pyramid Lake appears to be dry during all periods except heavy rain events. Google Earth history showed this channel dry during all available historical imagery

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop analysis 10/2/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 8, Posey Canyon, LA County, UTM: 34°39'03.6"N 118°45'02.0"W

South State Water Project Relicensing



Imagery Date 4/12/2018

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 8, Page 2)

Stream:

Bank Full Width: 10 feet **Depth at Bank Full:** Unknown, likely about 3 feet
Stream Gradient: 2%

Are there pools? YES **NO**

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Dry wash with sandy substrate

Vegetation: emergent, overhanging, dominant species:

Channel is mostly not vegetated. Sage and chamise in surrounding upland habitat

Substrate: sand and cobble

Bank description:

steep incised banks within a very steep-walled canyon

Perennial or **Ephemeral**. If ephemeral, date it goes dry: April 1

Other observations: An ephemeral wash draining the hills east of Pyramid Lake. Empties into long concrete box culvert under I-5 and into Pyramid Lake

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 9/24/18

Site Assessment Biologists: Carbiener, Michael

Parker, Leslie

Site Location: Site 9, Piru Creek at Road 67, LA County, UTM: 34°38'07.8"N 118°45'04.0"W

South State Water Project Relicensing



Imagery Date 4/12/2018



Photo 1. Site 9 looking downstream at riffle



Photo 2. Isolated side channel pool.

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 9, Page 3)

Stream:

Bank Full Width: 185 feet **Depth at Bank Full:** 12 feet

Stream Gradient: 2%

Are there pools? YES NO

If yes,

Size of stream pools: several hundred feet

Maximum depth of stream pools: 3 feet

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

Riffle 40%, run 10%, glide 5%, pool 45%. One large side channel pool isolated from channel

Vegetation: emergent, overhanging, dominant species:

Emergent veg consisting on cattail. Willows provide overhanging cover. Debris from high flows, cottonwood/ willow riparian canopy

Substrate: primarily cobble and boulder substrate

Bank description:

left bank very steep, right bank moderate

Perennial or Ephemeral. If ephemeral, date it goes dry: _____

Other observations: bullfrogs and crayfish very plentiful at this site. LMB and other predatory fish are present

Photos: CRLF Site 9_1, CRLF Site 9_2, CRLF Site 9_3, CRLF Site 9_4

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/27/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 10, Castaic Canyon, LA County, UTM: 34°36'20.0"N 118°39'56.6"W

South State Water Project Relicensing



Imagery Date 12/31/2017



Photo 1. Aerial imagery of Castaic Canyon looking upstream



Castaic Check-Dam Basins illustrating dry year conditions (Historical Google Earth aerial imagery dated 10/2/16)

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 10, Page 3)

Stream:

Bank Full Width: 105 feet **Depth at Bank Full:** 6 feet

Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: Check-dam Basins, 400-600 feet long

Maximum depth of stream pools: unknown (see notes)

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

Ephemeral wash that is dry during the majority of the year. Likely riffle/glide habitat when wetted, with three large check-dam sedimentation basins.

Vegetation: emergent, overhanging, dominant species:

Mostly not vegetated, chamise scrub with tamarisk

Substrate: sand with cobble and boulders

Bank description:

eroding gravel banks with moderate gradient

Perennial or Ephemeral. If ephemeral, date it goes dry: April 1, however check dam basins can hold water longer in wet years

Other observations: No photos taken of this location, because of camera failure. This location includes three check-dam sedimentation basins just upstream of Elderberry Forebay. Parts of Basin 2 reportedly may remain moist in summer.

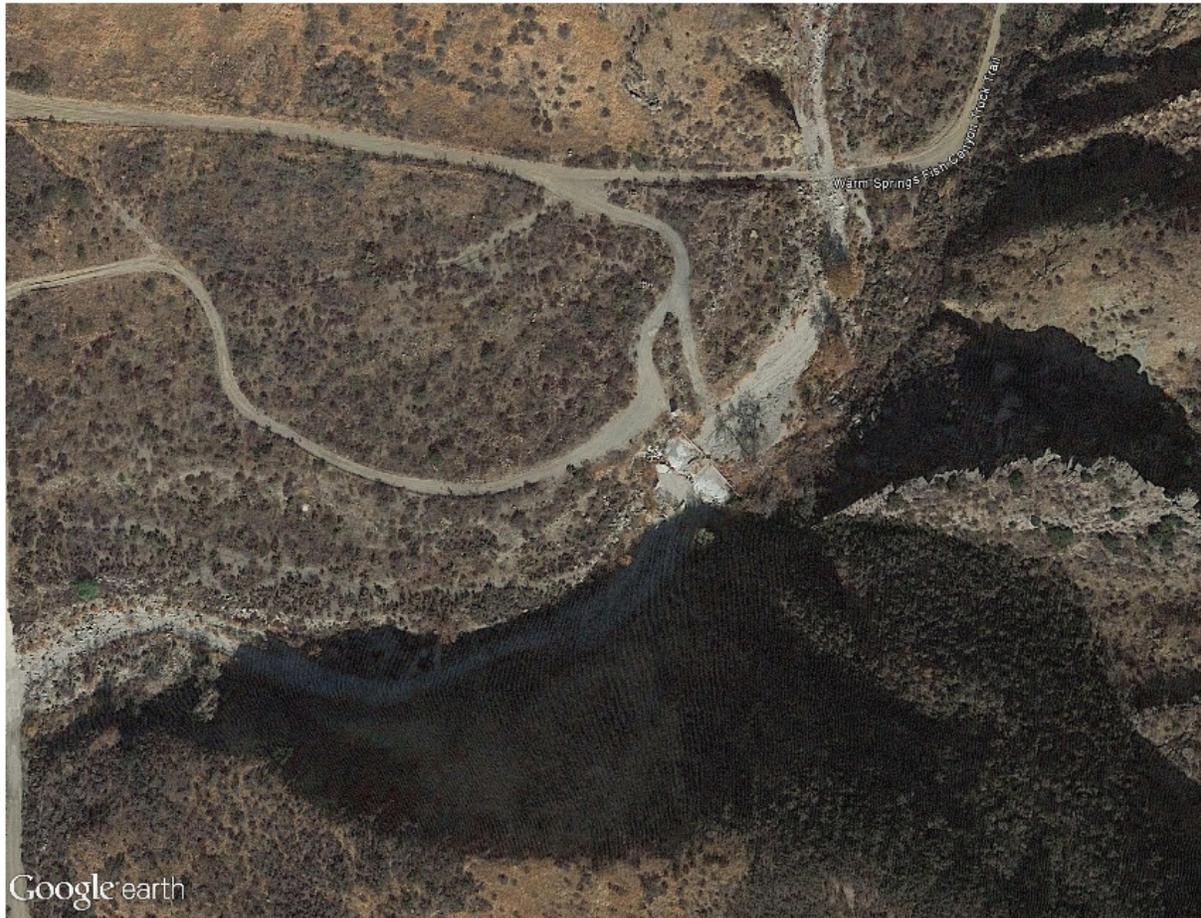
California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/27/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 11, Fish Canyon, LA County, UTM: 34°36'08.5"N 118°39'49.2"W

South State Water Project Relicensing



Imagery Date 12/31/2017



Photo 1. Aerial imagery of Fish Canyon looking upstream

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 11, Page 3)

Stream:

Bank Full Width: 30 feet **Depth at Bank Full:** 6 feet

Stream Gradient: 2%

Are there pools? YES **NO**

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Likely riffle/ run when flowing

Vegetation: emergent, overhanging, dominant species:

Mostly not vegetated, chamise and sage present, pines along channel (planted)

Substrate: cobble and gravel with some sand

Bank description:

moderately incised, located within a steep canyon

Perennial or Ephemeral. If ephemeral, date it goes dry: Usually dry, dry by at least April

Other observations: No photos taken, camera died. Ephemeral wash that is dry during most conditions and the majority of the year except during rain events. Approximately 2 miles upstream of the Project Boundaries, Cienaga Springs provides a water source that may keep the channel wetted in that area.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/27/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 12, Unnamed tributary to Elderberry Forebay, UTM: 34°34'30"N 118°37'56.7"W





1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 12, Page 3)

Stream:

Bank Full Width: 9 feet **Depth at Bank Full:** 3 feet

Stream Gradient: 2%

Are there pools? YES **NO**

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Ephemeral wash likely only flows during heavy rain events

Vegetation: emergent, overhanging, dominant species:

Mostly not vegetated; tamarisk, willow, and cottonwood present near confluence with reservoir

Substrate: cobble, boulder, and some gravels

Bank description:

steep channel banks with some incision in locations.

Perennial or Ephemeral. If ephemeral, date it goes dry: Dry except during precipitation events

Other observations: Photos CRLF Site 12_1, CRLF Site 12_2

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/27/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 13, Unnamed tributary to Elderberry Forebay, UTM: 34°34'16.7"N 118°37'35.6"W





1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 13, Page 3)

Stream:

Bank Full Width: 24 feet **Depth at Bank Full:** 8 feet

Stream Gradient: 1%

Are there pools? YES NO

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Ephemeral wash was dry during all surveys (this location was surveyed multiple times)

Vegetation: emergent, overhanging, dominant species:

Mostly not vegetated in channel. Sage, chamise, and tamarisk present along margins

Substrate: sand near mouth and cobble gravel upstream

Bank description:

steep and incised except at the mouth

Perennial or Ephemeral. If ephemeral, date it goes dry: Typically dry. Dry by April

Other observations: This channel likely is very ephemeral and only flows during and after rain events. This site does not meet the 20 week criteria.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 7/27/18

Site Assessment Biologists: Carbiener, Michael Vander Meulen, Jacob

Site Location: Site 14, Unnamed tributary to Elderberry Forebay, UTM: 34°34'46.6"N 118°38'37.3"W





1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 14, Page 3)

Stream:

Bank Full Width: 10 feet **Depth at Bank Full:** 5 feet

Stream Gradient: 1%

Are there pools? YES **NO**

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

No evidence of sustained flow. Ephemeral wash

Vegetation: emergent, overhanging, dominant species:

Mostly not vegetated. Sage, chamise, cottonwood, willow, and sycamore present along margins

Substrate: cobble and boulder

Bank description:

shallow banks showing a channel that migrates frequently

Perennial or Ephemeral. If ephemeral, date it goes dry: Appears to be dry under nearly all conditions

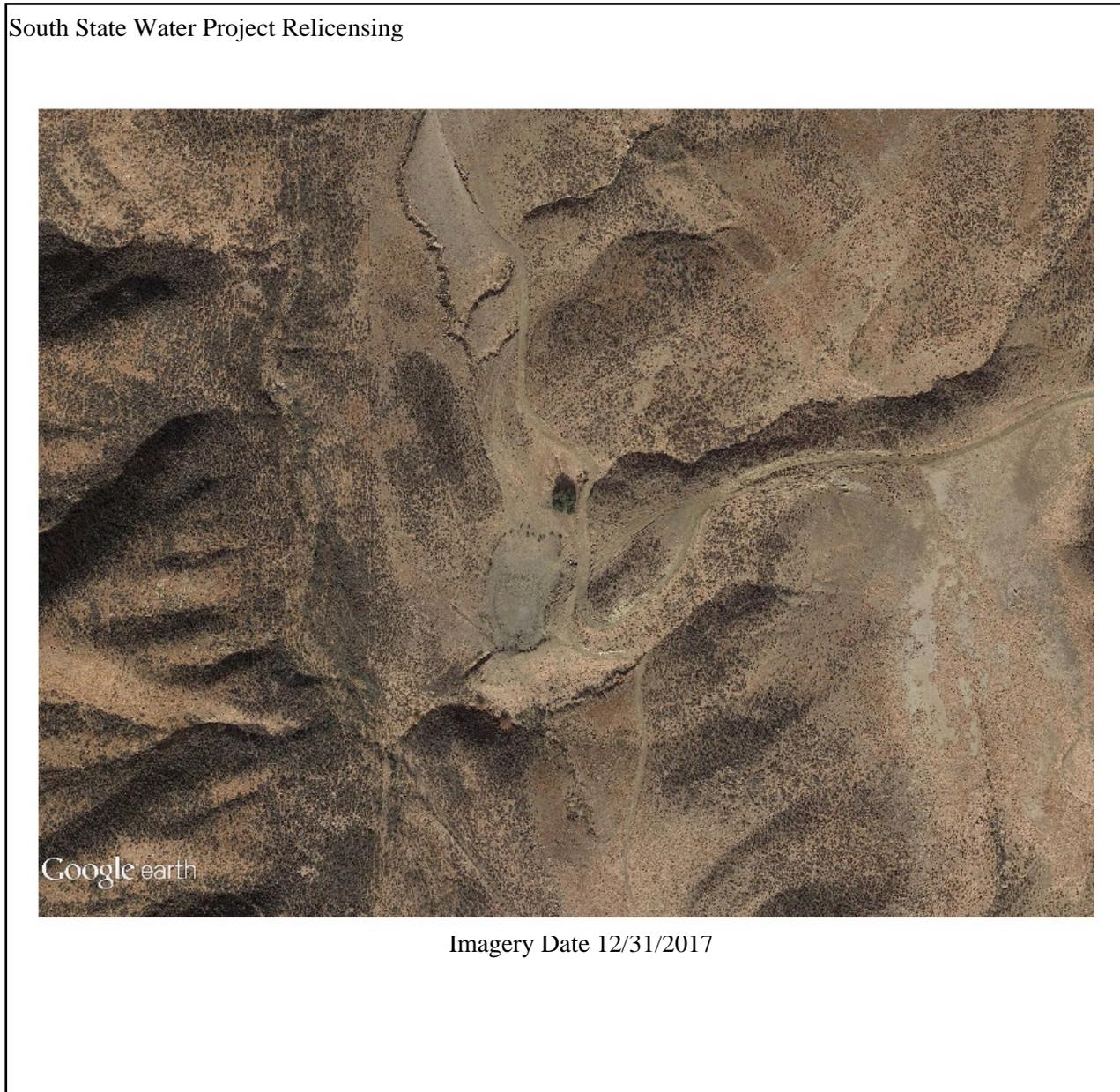
Other observations: Rattlesnake observation in channel during previous survey at this site.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop Analysis 10/2/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 15, Grasshopper Canyon stock pond, LA County, UTM: 34°32'23.0"N 118°38'30.7"W



1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 15, Page 2)

POND:

Size: 0.65 acre **Maximum depth:** Undetermined, but likely 3-5 feet deep

Vegetation: emergent, overhanging, dominant species: no emergent or overhanging vegetation with the exception of one dead tree in the pond and some sparse willow or tamarisk along the margin.

Substrate: Silt

Perennial or ~~Ephemeral~~ If ephemeral, date it goes dry: April or May

Other observations: This appears to be a stock pond (impoundment on ephemeral stream) that is seasonally inundated. Historical imagery shows water in the basin on 7/27/17, 5/1/15, and 5/24/09; dry on 8/26/12, 10/2/16, and 12/31/17). Western spadefoot larvae documented in June 2003 (CNDDDB record, which also notes that the area was overgrazed and trampled by cattle). Up and downstream appear to be dry during all portions of the year with no riparian veg.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop analysis 6/7/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 16, Charlie Canyon, LA County, UTM: 34°30'24.4"N 118°33.53.0"W

South State Water Project Relicensing



Imagery Date 12/31/2017

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 16, Page 2)

Stream:

Bank Full Width: 6 feet **Depth at Bank Full:** unknown

Stream Gradient: 4%

Are there pools? YES NO

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Ephemeral channel is dry in all aerial photos available

Vegetation: emergent, overhanging, dominant species:

Dry channel not vegetated. Oaks along margin of channel, scrub habitat and grasslands in area

Substrate: sand and gravel

Bank description:

incised with OHV use evident in the area.

Perennial or Ephemeral. If ephemeral, date it goes dry: _____

Other observations: Under T-line. Ephemeral drainage is dry during all available historical imagery with the exception of April 2011, which showed flowing water

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: 5/14/18

Site Assessment Biologists: Carbiener, Michael Pitts, Sheila

Site Location: Site 17, San Francisquito Creek, LA County, UTM: 34°29'45.4"N 118°32'31.4"W





1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 17, Page 3)

Stream:

Bank Full Width: 54 feet **Depth at Bank Full:** 3 feet
Stream Gradient: <1%

Are there pools? YES NO

If yes,

Size of stream pools: 10 feet (when wet)

Maximum depth of stream pools: 4 feet

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

dry during survey. Likely consists of riffle/glide, pool habitat when wetted

Vegetation: emergent, overhanging, dominant species:

No emergent veg. Mustard, willow, tamarisk, nicotiana, mulefat, jimsonweed. Dried pool has rabbitsfoot grass

Substrate: gravel, sand, some cobble

Bank description:

sand and cobble, with steeply incised channel in places and shallow banks in others.

Perennial or Ephemeral. If ephemeral, date it goes dry: By April

Other observations: Critical habitat unit located upstream. This site is located in a wash that likely does not normally meet 20-week criteria.

California Red-legged Frog Habitat Site Assessment Data Sheet

Date of Site Assessment: Desktop analysis 6/7/18

Site Assessment Biologists: Carbiener, Michael _____

Site Location: Site 18, Dry Creek, LA County, UTM: 34°29'35.5"N 118°31'50.5"W

South State Water Project Relicensing



Imagery Date 12/31/2017

1) Is this site within the current or historical range of the CRLF? YES NO

2) Are there known records of CRLF within 1.6 km (1 mi.) of the site? YES NO

GENERAL AQUATIC HABITAT CHARACTERIZATION (Site 18, Page 2)

Stream:

Bank Full Width: 9 feet **Depth at Bank Full:** unknown

Stream Gradient: <1%

Are there pools? YES NO

If yes,

Size of stream pools: _____

Maximum depth of stream pools: _____

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

Ephemeral wash appears dry during all available historical imagery

Vegetation: emergent, overhanging, dominant species:

Channel not vegetated. Oaks and scrub habitat along margins.

Substrate: sand

Bank description:

incised bank with grasses and scrub habitat

Perennial or Ephemeral. If ephemeral, date it goes dry: appears dry during all periods of available historical imagery

Other observations: Transmission line crosses overhead

