

34.615174, -118.785897 to 34.614614, -118.776845

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 05 dd 30 yy 18 Site #: 10 Subsite #: 10 Creek Name/Location: Piru Creek above Fish Creek
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) <1 Water Temp: (edgewater) 19.0 (main channel) 18.8
Observers: _____ Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool

- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: _____ Width: 40 ft Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 70 Type: forbs grass sedge rush blackberry other: Cattail
Dom.:

% Emergent Vegetation: 10 Type: grass sedge rush pondweed other: cattail
Dom.:

% Submerged Vegetation: 5 Type: algae rooted aquatic veg other: _____
Dom.:

% Cover Aquatic: 10 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:

% Cover Terrestrial: 85 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:

% Overhanging Vegetation: 7 Type: willow blackberry alder dogwood other: _____
Dom.:

% Riparian Canopy: 20 Type: willow ash alder maple oak conifer other: cottonwood
Dom.:

Aquatic Substrate (%): silt/clay — sand 40 gravel/pebble 30 cobble 10 boulder 20 bedrock 10

Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded

Creek Habitat: riffle: 15 run: 20 glide: 20 pool: 15 cascade/pool: 20 step-pool: 5 pocket water: 5

Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)

Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G

Wetted Channel Width: 20 ft Bankfull Width: 75 ft

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)

Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No

Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 0.25 mile Perennial Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____

Fish Present: Yes No Type: salmonid centrarchid cyprinid other: suckers

Herpetofauna & Life Stage (A J T E) tree frog A bullfrog NT w. pond turtle A garter snake A other: _____

Other Species Observed: crayfish

Impacts to Amphibian Habitat: grazing recreation industrial other: Flow regime low mod high 5

Comments: In gorge - banks range from low grad to high
photos: 053018-Piru-109-1

Coast Mtn King snake observed

QA/QC (initials): MC Date: 5/30

Site 10

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 04 dd 18 yy 18 Site #: _____ Subsite #: _____ Creek Name/Location: Firn Creek above Fish Creek
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) 5 Water Temp: (edgewater) 14° (main channel) 13°
Observers: SI MC Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool

- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: _____ Width: 35 ft. Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 60 Type: forbs grass sedge rush blackberry other: Cattails
Dom.:
% Emergent Vegetation: 15 Type: grass sedge rush pondweed other: Cattails
Dom.:
% Submerged Vegetation: 0 Type: algae rooted aquatic veg other: _____
Dom.:
% Cover Aquatic: 15 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:
% Cover Terrestrial: 80 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:
% Overhanging Vegetation: 10 Type: willow blackberry alder dogwood other: _____
Dom.:
% Riparian Canopy: 15 Type: willow ash alder maple oak conifer other: Cotton wood
Dom.:

Aquatic Substrate (%): silt/clay 5 sand 30 gravel/pebble 25 cobble 15 boulder 15 bedrock 10
Substrate Embeddedness: low (<25%) _____ moderate (25-50%) _____ high (>50%) _____
Dominant Substrate Shape: angular _____ sub-angular _____ rounded _____
Creek Habitat: riffle: 20 run: 25 glide: 10 pool: 15 cascade/pool: 15 step-pool: 5 pocket water: 10
Creek Gradient: low (0-2%) _____ moderate (2-4%) _____ high (4-10+%) _____
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
Rosgen Channel Type: A B C D DA E F G
Wetted Channel Width: 22 Bankfull Width: 60
Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.) _____
Bank Gradient: low (<15°) R/L _____ mod (15-40°) R/L _____ high (>40°) R/L _____ Active Bank Erosion: Yes No
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 1/4 mile Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: crayfish
Herpetofauna & Life Stage (A J T E) tree frog A bullfrog A/J/T w. pond turtle A garter snake A other: _____
Other Species Observed: crayfish

Impacts to Amphibian Habitat: grazing recreation industrial other: flaw regimen low mod high
Comments: _____

QA/QC (initials): _____ Date: _____

**Foothill Yellow-Legged Frog
Creek Site Habitat Assessment**

Quail Spillway

Date: mm 05 dd 14 yy 18 Site #: _____ Subsite #: _____ Creek Name/Location: GORNAL BELOW SPILLWAY
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) 0 Water Temp: (edgewater) _____ (main channel) _____
 Observers: MC SP Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): 8 9 10 11 Roll/Disc/Card #: MIKE'S CAMERA

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Seour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other run is dry; prob riffle/pool habitat

Site/Subsite: Length: 1000' Width: 75' Approximate Area (ft²): 2500 ft²

HABITAT FEATURES

% Margin Vegetation: 70% Type: forbs grass sedge rush blackberry other: Willow
 Dom.:
 % Emergent Vegetation: 50% Type: grass sedge rush pondweed other: Willow
 Dom.:
 % Submerged Vegetation: 10% Type: algae rooted aquatic veg other: _____
 Dom.:
 % Cover Aquatic: 50 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:
 % Cover Terrestrial: 30% Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:
 % Overhanging Vegetation: _____ Type: willow blackberry alder dogwood other: WILLOW ARE IN CHANNEL
 Dom.:
 % Riparian Canopy: 0 Type: willow ash alder maple oak conifer other: _____
 Dom.:

Aquatic Substrate (%): silt/clay _____ sand 30 gravel/pebble 20 cobble 50 boulder _____ bedrock _____
 Substrate Embeddedness: low (<25%) _____ moderate (25-50%) _____ high (>50%) _____
 Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: _____ run: _____ glide: _____ pool: 10 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) _____ high (4-10+%) _____
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C? D DA E F G
 Wetted Channel Width: 0 Bankfull Width: 68'
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No? Type: salmonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog _____ w. pond turtle _____ garter snake _____ other: W. FENCE LIZARD
 Other Species Observed: RED WING BLACKBIRD

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
 Comments: STREAM IS MOSTLY DRY; 1 ISOLATED ALGAE POOL OBSERVED

051418-Quail Spill-1-1, 051418-Quail Spill-1-2, 051418-Quail Spill-1-3
051418-Quail Spill-1-4

QA/QC (initials): MC Date: 5/14

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 05 dd 15 yy 18 Site #: 1 Subsite #: 1a Creek Name/Location: Piru Cr. @ Frenchmans
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) 3.0 Water Temp: (edgewater) _____ (main channel) _____
Observers: MC SP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): MIKE'S CAMERA 5/15 11:00 AM - 11:51 Roll/Disc/Card #:

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other

Site/Subsite: Length: 225 M Width: 40' (12m) Approximate Area (m²): 2700

HABITAT FEATURES

% Margin Vegetation: 5 Type: forbs grass sedge rush blackberry other: _____
 Dom.:

% Emergent Vegetation: 10 Type: grass sedge rush pondweed other: CATTAILS
 Dom.:

% Submerged Vegetation: - Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 20 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 25 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 5 Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 10 Type: willow ash alder maple oak conifer other: COTTONWOOD
 Dom.:

Aquatic Substrate (%): silt/clay 5 sand 5 gravel/pebble 20 cobble 20 boulder 15 bedrock 10

Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded

Creek Habitat: riffle: 35 run: 15 glide: 10 pool: 20 cascade/pool: _____ step-pool: 15 pocket water: 5

Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)

Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G

Wetted Channel Width: 30 Bankfull Width: 60

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)

Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No

Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____

Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____

Herpetofauna & Life Stage (A) (J) (T) (E) tree frog X bullfrog X w. pond turtle _____ garter snake _____ other: _____

Other Species Observed: CRAWFISH, ASIAN CLAM SHELL

Impacts to Amphibian Habitat: grazing recreation industrial other: BELOW DAM low mod high

Comments: DECEIT HABITAT, HOWEVER, MANY BULLFROG TADPOLES AND ADULTS, CRAWFISH THROUGHOUT REACH

photos: 051518-Frenchmans-1a-1, 051518-Frenchmans-1a-2, 051518-Frenchmans-1a-3, 051518-Frenchmans-1a-4, 051518-Frenchmans-1a-5, 051518-Frenchmans-1a-6

QA/QC (initials): MC Date: 5/18/18

**Foothill Yellow-Legged Frog
Creek Site Habitat Assessment**

Date: mm 05 dd 15 yy 18 Site #: 1 Subsite #: 6 Creek Name/Location: Pipe Creek ABOVE FRENCHMAN'S FLAT
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) 3.0 Water Temp: (edgewater) _____ (main channel) _____
 Observers: MC SP Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): MIKE'S CAMERA 13:52 - 14:46 Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 225m Width: 12m Approximate Area (m²): 2700 m²

HABITAT FEATURES

% Margin Vegetation: 5 Type: forbs grass sedge rush blackberry other: NETTLES
 Dom.:

% Emergent Vegetation: <5 Type: grass sedge rush pondweed other: CATTAILS
 Dom.:

% Submerged Vegetation: 20 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 20 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 60 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 5 Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 60 Type: willow ash alder maple oak conifer other: COTONWOOD
 Dom.:

Aquatic Substrate (%): silt/clay _____ sand 10 gravel/pebble 10 cobble 15 boulder 65 bedrock _____
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)
 Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: 20 run: 20 glide: 10 pool: 50 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 15' Bankfull Width: 85'
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: almonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A) (J) (T) E) tree frog _____ bullfrog X w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: CRAYFISH

Impacts to Amphibian Habitat: grazing recreation industrial other: BELOW DAM low mod high
 Comments: _____

photos: 051518-Frenchmans-1b-1, 051518-Frenchmans-1b-2,

QA/QC (initials): MC Date: 5/18/18

**Foothill Yellow-Legged Frog
Creek Site Habitat Assessment**

Date: mm 05 dd 17 yy 18 Site #: 3a Subsite #: _____ Creek Name/Location: Gorman Creek
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) < 1 cfs Water Temp: (edgewater) _____ (main channel) _____
 Observers: MC SP Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): MC'S PHONE 9:40-10:30 Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
 - Cascade/Pool
 - Isolated/Scour Pool
 - Pool Tail-Out/Pool Backwater
 - Side Pool
 - Bedrock Pool
 - Side/Split Channel
 - Low Gradient Riffle
 - Run
 - Other _____
- Site/Subsite: Length: 240 m Width: 12 m ~~40 ft~~ Approximate Area (m²): 2880

HABITAT FEATURES

% Margin Vegetation: 100% Type: forbs grass sedge rush blackberry other: _____
 Dom.:

% Emergent Vegetation: 100% Type: grass sedge rush pondweed other: _____
 Dom.:

% Submerged Vegetation: ? Type: algae rooted aquatic veg other: can't see due to thick
 Dom.:

% Cover Aquatic: 100% Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 90% Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 90% Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 50% Type: willow ash alder maple oak conifer other: _____
 Dom.:

Aquatic Substrate (%): silt/clay 100% sand _____ gravel/pebble _____ cobble _____ boulder _____ bedrock _____
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)
 Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: _____ run: 10% glide: _____ pool: 90% cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 2 ft Bankfull Width: 40 ft
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 1/2 mi Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: ? Yes No Type: salmonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A) J T E tree frog X bullfrog _____ w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: _____

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
 Comments: INCISED CHANNEL w/ EXTREMELY THICK IMPENETRABLE VEG, MUCKY SILT SUBSTRATE - DIFFICULT TO WALK THROUGH

Photos: 051718-gorman-3a-1
051718-gorman-3a-2
051718-gorman-3a-3
34.690874, -118.790496 - 34.692519, -118.792100

QA/QC (initials): MC Date: 5/17

1315

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 07 dd 23 yy 18 Site #: Pirou Subsite #: 1 Creek Name/Location: Pirou in the Canyon
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clean Wind: Inclement Fair Ideal
 Total Site Length: 500 ft Creek Aspect: NW Discharge (cfs) <1 Water Temp: (edgewater) 84 (main channel) 80
 Observers: MC JV Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): 1 2 Roll/Disc/Card #: _____

34.607869
-118.778407

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other

Site/Subsite: Length: 500 ft Width: 30 ft Approximate Area (sq ft): 15,000

HABITAT FEATURES

% Margin Vegetation: 50 Type: forbs grass sedge rush blackberry other: _____
 Dom.:
 % Emergent Vegetation: 2 Type: grass sedge rush pondweed other: _____
 Dom.:
 % Submerged Vegetation: 20 Type: algae rooted aquatic veg other: _____
 Dom.:
 % Cover Aquatic: 10 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:
 % Cover Terrestrial: 70 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:
 % Overhanging Vegetation: 5 Type: willow blackberry alder dogwood other: Typha
 Dom.:
 % Riparian Canopy: 30 Type: willow ash alder maple oak conifer other: _____
 Dom.:

Aquatic Substrate (%): silt/clay _____ sand 80 gravel/pebble _____ cobble 5 boulder 15 bedrock _____
 Substrate Embeddedness: low (<25%) _____ moderate (25-50%) _____ high (>50%) _____
 Dominant Substrate Shape: angular _____ sub-angular _____ rounded _____
 Creek Habitat: riffle: 10 run: 10 glide: _____ pool: 80 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) _____ moderate (2-4%) _____ high (4-10+%) _____
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 30 ft Bankfull Width: 50 ft
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.) _____
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L _____ Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A J T E) tree frog T bullfrog TA w. pond turtle J garter snake _____ other: _____
 Other Species Observed: Crayfish, caribula

Impacts to Amphibian Habitat: grazing recreation industrial other: _____
 Comments: pool habitat dominant, almost stagnant with algae, bullfrogs
not good F4/F habitat

photos: 2018-723-Lower Pirou 1
 2018-723-Lower Pirou 2
~~2018-723-Lower Pirou 3~~
 2018-723-Lower Pirou 4

QA/QC (initials): JDV Date: 7-23-18

0800 - 0900

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 07 dd 26 yy 18 Site #: _____ Subsite #: _____ Creek Name/Location: Gorman Creek 07262018_01
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) < 1 Water Temp: (edgewater) 65°F (main channel) 65°F
 Observers: Jacob/M Mike C. Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): see datasheet for survey Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other

Site/Subsite: Length: _____ Width: _____ Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 80 Type: forbs grass sedge rush blackberry other: _____
 Dom.:

% Emergent Vegetation: 30 Type: grass sedge rush pondweed other: Water Cress
 Dom.:

% Submerged Vegetation: 0 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 10 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 70 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 20 Type: willow blackberry alder dogwood other: Sedge/Typha
 Dom.:

% Riparian Canopy: 90+ Type: willow ash alder maple oak conifer other: Cottonwood
 Dom.:

Aquatic Substrate (%): silt/clay 60 sand 40 gravel/pebble _____ cobble _____ boulder _____ bedrock _____
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded N/A
 Creek Habitat: riffle: 15 run: 80 glide: _____ pool: 5 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: N/A

Rosgen Channel Type: A B C D DA E F G Artificial channel w/ controlled flow
 Wetted Channel Width: ~3-5' Bankfull Width: ~60'

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: N/A Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____

Fish Present: Yes No Type: salmonid centrarchid cyprinid other: None observed

Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog _____ w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: Western toad and Western fence lizard

Impacts to Amphibian Habitat: grazing recreation industrial other: Controlled flow regime low mod high
 Comments: Survey effectiveness is low due to dense vegetation.
FYLF habitat/suitability is low

QA/QC (initials): MC Date: 7/26/18

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 07 dd 26 yy 18 Site #: _____ Subsite #: _____ Creek Name/Location: Los Alamos Creek
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) <1cfs Water Temp: (edgewater) 64°F (main channel) 64°F
 Observers: Jacob VM, Mike C Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): see datasheet for survey Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool

- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: _____ Width: _____ Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 90 Type: forbs grass sedge rush blackberry other: _____
 Dom.:

% Emergent Vegetation: 45 Type: grass sedge rush pondweed other: _____
 Dom.:

% Submerged Vegetation: <5 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 40 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 80 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 65 Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 90 Type: willow ash alder maple oak conifer other: Cottonwood
 Dom.:

Aquatic Substrate (%): silt/clay 20 sand 80 gravel/pebble _____ cobble _____ boulder _____ bedrock _____
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)
 Dominant Substrate Shape: angular sub-angular rounded N/A
 Creek Habitat: riffle: 23 run: 75 glide: _____ pool: 2 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: N/A
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 3' Bankfull Width: 40'
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 1/10 miles Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: None observed
 Herpetofauna & Life Stage (A) (J) (T) (E) tree frog bullfrog _____ w. pond turtle _____ garter snake _____ other: fence lizard
 Other Species Observed: _____
 Impacts to Amphibian Habitat: grazing recreation industrial other: Controlled flow regime low (mod) high
 Comments: _____

QA/QC (initials): MC Date: 7/26/18

Piru Rd Xing
above Frenchmans

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 09 dd 21 yy 18 Site #: _____ Subsite #: _____ Creek Name/Location: Piru
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: _____ Creek Aspect: _____ Discharge (cfs) < Water Temp: (edgewater) _____ (main channel) _____
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 15 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 30 Type: forbs grass sedge rush blackberry other: cattails
 Dom.:

% Emergent Vegetation: 10 Type: grass sedge rush pondweed other: cattails
 Dom.:

% Submerged Vegetation: 40 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 15 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 80 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 15 Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 50 Type: willow ash alder maple oak conifer other: cottonwood/willow
 Dom.:

Aquatic Substrate (%): silt/clay 5 sand 5 gravel/pebble 30 cobble 50 boulder 10 bedrock _____
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: 40 run: 10 glide: 5 pool: 45 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 15 Bankfull Width: 185'

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____

Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog AJ w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: _____

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
 Comments: _____

QA/QC (initials): PR Date: 9/24

36.6069639, -118.7757944

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 09 dd 25 yy 18 Site #: 1 Subsite #: _____ Creek Name/Location: Piru Creek
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: 200 Creek Aspect: NW Discharge (cfs) 3 Water Temp: (edgewater) 64 (main channel) 64
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool

- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 20 Approximate Area (sq ft): 4000 ft²

HABITAT FEATURES

% Margin Vegetation: 40 Type: forbs grass sedge rush blackberry other: cattails
Dom.:
% Emergent Vegetation: 5 Type: grass sedge rush pondweed other: cattail
Dom.:
% Submerged Vegetation: 30 Type: algae rooted aquatic veg other: _____
Dom.:
% Cover Aquatic: 5 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:
% Cover Terrestrial: 65 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:
% Overhanging Vegetation: 5 Type: willow blackberry alder dogwood other: _____
Dom.:
% Riparian Canopy: 10 Type: willow ash alder maple oak conifer other: _____
Dom.:

Aquatic Substrate (%): silt/clay _____ sand 5 gravel/pebble 25 cobble 40 boulder 5 bedrock 25
Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded
Creek Habitat: riffle: 20 run: 5 glide: _____ pool: 75 cascade/pool: _____ step-pool: _____ pocket water: _____
Creek Gradient: low (2-4%) moderate (2-4%) high (4-10+%)
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G
Wetted Channel Width: 20 Bankfull Width: 100

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: none obs - but known to occur
Herpetofauna & Life Stage (A J T E) tree frog T bullfrog TJ w. pond turtle _____ garter snake _____ other: _____
Other Species Observed: Sceloporus

Impacts to Amphibian Habitat: grazing recreation industrial other: _____
Comments: in twisty part of canyon. large pool against left wall with
cobble bar on right. wall fast cobbles is vertical
riffle into d/s pool

QA/QC (initials): ML Date: 9/25/18

34,6141333, -118.7805056

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 09 dd 25 yy 18 Site #: 2 Subsite #: _____ Creek Name/Location: Piru above Fish Cr.
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: 200 Creek Aspect: SW Discharge (cfs) 3 Water Temp: (edgewater) 65 (main channel) 65
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES 09.25.18-02-pond turtle, 09.25.18-02-05, 09.25.18-02-d5

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 15 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 25 Type: forbs grass sedge rush blackberry other: cattails
 Dom.:

% Emergent Vegetation: 5 Type: grass sedge rush pondweed other: cattails
 Dom.:

% Submerged Vegetation: 30 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 35 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 50 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 10 Type: willow blackberry alder dogwood other: _____
 Dom.:

% Riparian Canopy: 10 Type: willow ash alder maple oak conifer other: Sycamore
 Dom.:

Aquatic Substrate (%): silt/clay _____ sand _____ gravel/pebble 5 cobble 50 boulder 20 bedrock 25
Substrate Embeddedness: low (<25%) moderate (25-50%) _____ high (>50%) _____

Dominant Substrate Shape: angular _____ sub-angular _____ rounded _____
Creek Habitat: riffle: 50 run: 20 glide: _____ pool: 25 cascade/pool: 15 step-pool: _____ pocket water: _____
Creek Gradient: low (0-2%) _____ moderate (2-4%) _____ high (4-10+) _____

Creek Gradient Change: No Yes higher lower _____ Change in Creek Habitat: from a series of pools to
Rosgen Channel Type: A B C D DA E F G step run/pool hab
Wetted Channel Width: 10 Bankfull Width: 65

Water Turbidity: low moderate _____ high _____ Water Color: clear discolored (tannins, etc.) _____
Bank Gradient: low (<15°) R/L _____ mod (15-40°) R/L _____ high (>40°) R/L _____ Active Bank Erosion: Yes No
Tributary Nearby: Yes No _____ Location: U/S D/S LB RB Distance: 1/2 mile Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____ occur
Fish Present: Yes No _____ Type: salmonid centrarchid cyprinid other: none obs, but known to occur
Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog _____ w. pond turtle A garter snake _____ other: _____
Other Species Observed: _____

Impacts to Amphibian Habitat: grazing recreation industrial other: _____
Comments: site is 1/5 of Fish Creek (1/2 mi) multiple long pools, with area of step-runs + step-pools. canyon was wide but narrow in this area before widening 1/5, then tightening up to Fish Cr.

western pond turtle observed basking on boulder

QA/QC (initials): PL Date: 9/25/18

38. 6054944, -118.7978611

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 9 dd 25 yy 18 Site #: 3 Subsite #: _____ Creek Name/Location: Piny Creek below Fish Creek
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: _____ Creek Aspect: SW Discharge (cfs) 3 Water Temp: (edgewater) 70 (main channel) 70
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): _____ Roll/Disc/Card #: 70

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool

- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 20 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 15 Type: forbs grass sedge rush blackberry other: _____
Dom.:

% Emergent Vegetation: 5 Type: grass sedge rush pondweed other: cattail
Dom.:

% Submerged Vegetation: 10 Type: algae rooted aquatic veg other: _____
Dom.:

% Cover Aquatic: 20 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:

% Cover Terrestrial: 40 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:

% Overhanging Vegetation: 20 Type: willow blackberry alder dogwood other: cotton wood
Dom.:

% Riparian Canopy: 30 Type: willow ash alder maple oak conifer other: cotton wood
Dom.:

Aquatic Substrate (%): silt/clay 5 sand 15 gravel/pebble 30 cobble 35 boulder 25 bedrock 0
Substrate Embeddedness: low (<25%) moderate (25-50%) 20 high (>50%)
Dominant Substrate Shape: angular sub-angular rounded
Creek Habitat: riffle: 40 run: 25 glide: _____ pool: 35 cascade/pool: _____ step-pool: _____ pocket water: _____
Creek Gradient: low (0-2%) moderate (2-4%) moderate high (4-10+%)
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: no
Rosgen Channel Type: A B C D DA E F G
Wetted Channel Width: 16 Bankfull Width: 100

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 0.5 m Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: unknown
Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog TA w. pond turtle _____ garter snake _____ other: crayfish

Other Species Observed: _____
Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
Comments: Section upstream of bedrock canyon wall which stream hits and turns to the southeast. Large pool immediately below site, large cobble bar on river left

QA/QC (initials): _____ Date: _____

34.6119833, -118.7754167

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 09 dd 26 yy 18 Site #: 7 Subsite #: _____ Creek Name/Location: Piran Creek
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: 200 Creek Aspect: NW Discharge (cfs) 3 Water Temp: (edgewater) 68 (main channel) 68
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): 09.26.18-07-05, 09.26.18-07-05 Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 40 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 25 Type: forbs grass sedge rush blackberry other: _____
 Dom.:

% Emergent Vegetation: 5 Type: grass sedge rush pondweed other: Cattail
 Dom.:

% Submerged Vegetation: 60 Type: algae rooted aquatic veg other: _____
 Dom.:

% Cover Aquatic: 10 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:

% Cover Terrestrial: 25 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:

% Overhanging Vegetation: 25 Type: willow blackberry alder dogwood other: sedge, grass
 Dom.:

% Riparian Canopy: 15 Type: willow ash alder maple oak conifer other: cottonwood
 Dom.:

Aquatic Substrate (%): silt/clay 10 sand 10 gravel/pebble 20 cobble 50 boulder _____ bedrock 10
 Substrate Embeddedness: low (< 25%) moderate (25-50%) high (> 50%)
 Dominant Substrate Shape: angular sub-angular rounded glide 25%, pool 50%
 Creek Habitat: riffle: 25 run: _____ glide: 35 pool: 35 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 20 Bankfull Width: 25
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.) No
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog T w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: freshwater shrimp, crayfish

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
 Comments: very open, wide, still portion of creek. Deep pool present ~ 4ft deep, very little cover, bank bedrock right side, bank cobble left side. w/ steep cliffside

QA/QC (initials): MC Date: 9/26

34,6074194, -118.7961111

Foothill Yellow-Legged Frog Creek Site Habitat Assessment

Date: mm 09 dd 26 yy 18 Site #: 5 Subsite #: _____ Creek Name/Location: Pirn Creek
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: 200 Creek Aspect: _____ Discharge (cfs) 3 Water Temp: (edgewater) 65 (main channel) 65
 Observers: MC LP Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): 09.25.18.05-US, 09.25.18-05-ds Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 15 Approximate Area (m²): 3000 ft²

HABITAT FEATURES

% Margin Vegetation: 65 Type: forbs grass sedge rush blackberry other: _____
 Dom.:
 % Emergent Vegetation: 30 Type: grass sedge rush pondweed other: cattail
 Dom.:
 % Submerged Vegetation: 25 Type: algae rooted aquatic veg other: _____
 Dom.:
 % Cover Aquatic: 20 Type: rootwad aquatic veg. woody debris gaps between substrate other: cattail
 Dom.:
 % Cover Terrestrial: 40 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:
 % Overhanging Vegetation: 35 Type: willow blackberry alder dogwood other: ~~###~~
 Dom.:
 % Riparian Canopy: 50 Type: willow ash alder maple oak conifer other: cottonwood
 Dom.:

Aquatic Substrate (%): silt/clay 10 sand 35 gravel/pebble 40 cobble 15 boulder 10 bedrock _____
 Substrate Embeddedness: low (< 25%) moderate (25-50%) high (> 50%)

Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: 35 run: 25 glide: 40 pool: _____ cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 12 Bankfull Width: 145

Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No

Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 0.25 m Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____

Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog I w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: crayfish

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high

Comments: downstream from Fish Creek, upstream of sites 3 & 4. Similar to other sites in area. All good habitat for frogs

QA/QC (initials): MC Date: 9/26

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

34.6105306, ~~-118.75472~~
-118.7952972

Date: mm 09 dd 26 yy 18 Site #: 6 Subsite #: _____ Creek Name/Location: Piry upstream Fish
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: 200 Creek Aspect: W Discharge (cfs) 3 Water Temp: (edgewater) 63 (main channel) 63
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): 09.26.18.06-05, 09.28-18.06-ds Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 25 Approximate Area (sq ft): 5000

HABITAT FEATURES

% Margin Vegetation: 40 Type: forbs grass sedge rush blackberry other: willow
Dom.:

% Emergent Vegetation: 25 Type: grass sedge rush pondweed other: Cattail
Dom.:

% Submerged Vegetation: 25 Type: algae rooted aquatic veg other: _____
Dom.:

% Cover Aquatic: 40 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:

% Cover Terrestrial: 45 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:

% Overhanging Vegetation: 15 Type: willow blackberry alder dogwood other: _____
Dom.:

% Riparian Canopy: 5 Type: willow ash alder maple oak conifer other: cottonwood
Dom.:

Aquatic Substrate (%): silt/clay 15 sand 20 gravel/pebble 10 cobble 5 boulder 35 bedrock 15
Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded
Creek Habitat: riffle: 15 run: _____ glide: _____ pool: 60 cascade/pool: 10 step-pool: 15 pocket water: _____

Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+)
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____

Rosgen Channel Type: A B C D DA E F G

Wetted Channel Width: 17 Bankfull Width: 40
Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)

Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: 0.5 Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____

Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog T w. pond turtle _____ garter snake _____ other: _____
Other Species Observed: _____

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high

Comments: upstream of fish creek, straight away before channel
good fish habitat, gets very windy

QA/QC (initials): MC Date: 9/26

**Foothill Yellow-Legged Frog
Creek Site Habitat Assessment**

Date: mm 09 dd 26 yy 18 Site #: 8 Subsite #: _____ Creek Name/Location: Piru below FF
 USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
 GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
 Total Site Length: 200 Creek Aspect: _____ Discharge (cfs) 3 Water Temp: (edgewater) 72 (main channel) 72
 Observers: MC LP Initial Site Visit Follow-up Site Visit
 Photograph # (index to notebook): 09.28.18-08.A5 Roll/Disc/Card #: _____

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 30 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 40 Type: forbs grass sedge rush blackberry other: _____
 Dom.:
 % Emergent Vegetation: 5 Type: grass sedge rush pondweed other: willow cattail
 Dom.:
 % Submerged Vegetation: 80 Type: algae rooted aquatic veg other: _____
 Dom.:
 % Cover Aquatic: 15 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
 Dom.:
 % Cover Terrestrial: 35 Type: duff/leaf litter burrows woody debris undercut bank other: _____
 Dom.:
 % Overhanging Vegetation: 10 Type: willow blackberry alder dogwood other: _____
 Dom.:
 % Riparian Canopy: 15 Type: willow ash alder maple oak conifer other: cottonwood
 Dom.:

Aquatic Substrate (%): silt/clay 30 sand 40 gravel/pebble 10 cobble 15 boulder 10 bedrock 5
 Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)
 Dominant Substrate Shape: angular sub-angular rounded
 Creek Habitat: riffle: 20 run: _____ glide: 50 pool: 30 cascade/pool: _____ step-pool: _____ pocket water: _____
 Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
 Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
 Rosgen Channel Type: A B C D DA E F G
 Wetted Channel Width: 17 Bankfull Width: 28
 Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
 Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
 Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
 Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____
 Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog TA w. pond turtle _____ garter snake _____ other: _____
 Other Species Observed: _____

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
 Comments: oxbow in stream with sandy beach, seep in cliffside, one bank low sandy beach (right) other bank bedrock cliff sidepool with cattail behind beach

QA/QC (initials): MC Date: 9/26

34.604275, -118.7941444

Foothill Yellow-Legged Frog
Creek Site Habitat Assessment

Date: mm 9 dd 26 yy 18 Site #: 4 Subsite #: _____ Creek Name/Location: Piru Creek below x 2
USGS Quad: _____ Township: _____ Range: _____ Section: _____ 1/4 Section: _____ Elevation: _____
GPS File Name: _____ Weather: Sky: Overcast Partly Overcast Clear Wind: Inclement Fair Ideal
Total Site Length: 200 Creek Aspect: E Discharge (cfs) 3 Water Temp: (edgewater) 67 (main channel) 67
Observers: MC LP Initial Site Visit Follow-up Site Visit
Photograph # (index to notebook): 09.26.18-04-ds, 09.26.18-04-US Roll/Disc/Card #: _____

Fish
Creek

AMPHIBIAN HABITAT TYPES

- Pool
- Cascade/Pool
- Isolated/Scour Pool
- Pool Tail-Out/Pool Backwater
- Side Pool
- Bedrock Pool
- Side/Split Channel
- Low Gradient Riffle
- Run
- Other _____

Site/Subsite: Length: 200 Width: 30 Approximate Area (m²): _____

HABITAT FEATURES

% Margin Vegetation: 20 Type: forbs grass sedge rush blackberry other: _____
Dom.:

% Emergent Vegetation: 5 Type: grass sedge rush pondweed other: willow
Dom.:

% Submerged Vegetation: 75 Type: algae rooted aquatic veg other: _____
Dom.:

% Cover Aquatic: 70 Type: rootwad aquatic veg. woody debris gaps between substrate other: _____
Dom.:

% Cover Terrestrial: 85 Type: duff/leaf litter burrows woody debris undercut bank other: _____
Dom.:

% Overhanging Vegetation: 70 Type: willow blackberry alder dogwood other: cottonwood
Dom.:

% Riparian Canopy: 20 Type: willow ash alder maple oak conifer other: cottonwood
Dom.:

Aquatic Substrate (%): silt/clay 25 sand 30 gravel/pebble 20 cobble 25 boulder 15 bedrock _____
Substrate Embeddedness: low (<25%) moderate (25-50%) high (>50%)

Dominant Substrate Shape: angular sub-angular rounded

Creek Habitat: riffle: 30 run: 25 glide: _____ pool: 40 cascade/pool: 5 step-pool: _____ pocket water: _____
Creek Gradient: low (0-2%) moderate (2-4%) high (4-10+%)
Creek Gradient Change: No Yes higher lower Change in Creek Habitat: _____
Rosgen Channel Type: A B C D DA E F G
Wetted Channel Width: 12 Bankfull Width: 117
Water Turbidity: low moderate high Water Color: clear discolored (tannins, etc.)
Bank Gradient: low (<15°) R/L mod (15-40°) R/L high (>40°) R/L Active Bank Erosion: Yes No
Tributary Nearby: Yes No Location: U/S D/S LB RB Distance: _____ Perennial Ephemeral

Upland Habitat Type: mixed conifer foothill hardwood/conifer foothill hardwood scrub/shrub other: _____
Fish Present: Yes No Type: salmonid centrarchid cyprinid other: _____
Herpetofauna & Life Stage (A J T E) tree frog _____ bullfrog AT w. pond turtle _____ garter snake _____ other: _____
Other Species Observed: crayfish

Impacts to Amphibian Habitat: grazing recreation industrial other: _____ low mod high
Comments: canyon widens here large cobble bar on right side
willow thickets almost impassable - extremely
dense willow scrub surrounding active channel

QA/QC (initials): JK Date: 5/16