2011 Mountain Yellow-legged Frog Monitoring Plan Survey Results El Dorado Hydroelectric Project, FERC No. 184

February 2012

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1.0 INTRODUCTION

1.1 Project Background

The El Dorado Irrigation District (District) owns and operates the El Dorado Hydroelectric Project (Project 184), which is licensed by the Federal Energy Regulatory Commission (FERC). As required by the FERC Project 184 License, the District is required to conduct surveys for Mountain Yellow-legged Frog (MYLF)[1] every five years pursuant to the Project 184 *MYLF Monitoring Plan* (Plan; EID 2010). MYLF monitoring surveys conducted in 2011 represent the year five monitoring effort. Since Lake Aloha spilled on two occasions during the 2011 spring runoff period (initially from July 6 to July 12, and again from July 31 to August 8 [EID 2011]), MYLF surveys and trout removal activities were also required in the ponds and habitats downstream of the Lake Aloha auxiliary dams.

The District retained ECORP Consulting, Inc. (ECORP) to conduct protocol surveys for MYLF at all monitoring sites specified in the Plan, including surveys conducted in conjunction with trout removal efforts in the ponds downstream of the auxiliary dams. Results of the 2011 MYLF surveys are reported herein.

Results of the 2011 trout removal efforts are reported under separate cover.

2.0 METHODS

2.1 Site Descriptions

ECORP conducted MYLF surveys in 2011 at the locations identified in the Plan:

- Echo Lake – Camp Harvey Tributary and Associated Ponds (Site 440 T/L)

  Site 440IT/L includes six subsites: the Camp Harvey tributary to Upper Echo Lake, Cagwin Lake, and four natural ponds located immediately west of Upper Echo Lake.
  - Subsite 440a (Cagwin Lake) is located immediately to the east of Ralston Lake.
  - Subsite 440b is a perennial natural pond located south of Cagwin Lake.
  - Subsite 440c is a perennial natural pond located east of Cagwin Lake. The subsite includes the pond and an associated tributary and meadow.
  - Subsite 440d is a perennial natural pond located north of Cagwin Lake and east of Tamarack Lake.
  - Subsite 440e is a perennial natural pond located near the western edge of Upper Echo Lake.
  - Subsite 440f (Camp Harvey tributary to Upper Echo Lake) is located at the northwest end of Upper Echo Lake.

[1] In 2008, the Society for the Study of Amphibians and Reptiles recognized the Mountain Yellow-legged frog as two distinct species, Rana muscosa - Southern Mountain Yellow-legged Frog (MYLF) and Rana sierrae - Sierra Nevada Yellow-legged Frog (SNYLF). SNYLF is the species native to the SF American River watershed that is addressed in this report; however, this report uses the nomenclature MYLF to be consistent with the terminology used in the Project 184 license documents.

- Silver Lake (Site 750 LP) – southern and eastern shorelines

- Camp Silverado (Site 753 IT) – up to 0.5 mile from confluence depending on suitable habitat

- Unnamed Silver Lake Tributary (Site 752 IT) – up to 0.5 mile from confluence depending on suitable habitat

- Caples Lake (Site 895 LP) – southern shoreline

- Lake Aloha and Associated Downstream Ponds and Habitats (Site 550 LP) - southern shoreline; tributary along western shoreline

    24 Ponds Downstream of the Lake Aloha Auxiliary Dams

    - The survey area consisted of the vicinity of the spillway path below the auxiliary dams at the southeast end of Lake Aloha downstream to the confluence with Channel Lake (Figure 1). All surface waters in the auxiliary spillway path were surveyed, along with several ponds in the immediate vicinity that could be connected to the spillway path during high flow periods (i.e., ponds or other potential frog habitat located just above the spillway path where fish passage may occasionally be possible). The ponds surveyed in 2011 were the same as those surveyed in 2007 and 2010 (GANDA 2007 and 2010).

    - Since perimeters of surveyed ponds were mapped in 2010 (Garcia and Associates 2010) in accordance with the CDFG Sierra Nevada Fish and Amphibian Survey Protocol (CDFG 2009) under similar hydrologic conditions, pond perimeters were not re-surveyed during this survey effort. However, photographs were taken of all surveyed ponds to document current conditions.

- Upper Echo Lake (Site 455 LP) – vicinity of Camp Harvey tributary

- Emigrant Creek (Site 897 IT) – up to 1.0 miles from confluence depending on suitable habitat

The MYLF survey locations are identified in Figures 1 and 2.

2.2 MYLF/Herpetofauna Surveys

Protocol surveys for MYLF were conducted in 2011 in accordance with the California Department of Fish Game (CDFG) Sierra Nevada Fish and Amphibian Survey Protocol (CDFG 2009). This protocol focuses on visual encounter surveys (VES) for various amphibian and reptile species; the primary focus of these surveys was on the life stages of MYLF potentially present during the surveys including: larvae / tadpole (i.e., hatch-year, over-winter tadpoles, and metamorphosing tadpoles), juveniles (first year frogs), subadults (second and third year frogs), and adults (third year or older frogs of breeding age).

MYLF VES were conducted in late August and early September 2011. Information regarding survey date of each site is included in Table 1.

Table 1 – Dates and Staff for MYLF VES Surveys

Site / Subsite	Date Surveyed
Camp Harvey (Site 440 T/L)	
Subsite A	1 September 2011
Subsite B	22 August 2011
Subsite C	22 August 2011
Subsite D	22 August 2011
Subsite E	29 August 2011
Subsite F	22 August 2011
Silver Lake (Site 750 LP)	24 August 2011
Camp Silverado (Site 753 IT)	24 August 2011
Unnamed Silver Lake Tributary (Site 752 IT)	25 August 2011
Caples Lake (Site 895 LP)	23 August 2011
Lake Aloha and Associated Downstream Ponds and Habitats	31 August and 1 September 2011
Upper Echo Lake (Site 455 LP)	1 September 2011
Emigrant Creek (Site 897 IT)	23 August 2011

VES were conducted by a minimum of two biologists walking slowly along the margins of lakes, perimeters of ponds, and along each side of tributary streams. Biologists paused frequently to look ahead for basking animals, and dip nets were used to gently sweep nearshore aquatic habitat and banks in an effort to dislodge stationary animals for easier observation and identification; and to catch animals, when necessary for identification (specimens were not captured by hand). The total number of individuals observed by species and life stage and Gosner stage for tadpoles and metamorphs was recorded in the appropriate field on the standard CDFG inventory datasheet. Adult (>45 millimeter [mm] snout-vent length [SVL]), subadult (35 to 44 mm SVL), and juvenile (25 to 34 mm SVL) MYLF specimens were captured in nets and measured to the nearest mm SVL; and larval MYLF specimens were measured to the nearest mm for total length (TL). Incidental observations of MYLF (individuals observed in aquatic habitats or other areas adjacent to formal survey sites) were also recorded during VESs.

In addition to MYLF, all other herpetofauna observations were also recorded. All snakes that were captured were palpated to identify prey items, and then released.

Habitat characteristics such as water temperature, color, turbidity, depth, and littoral/shoreline zone substrate composition were recorded along with survey conditions (e.g., wind and weather conditions) on the Amphibian and Fish Inventory Datasheet (i.e., the CDFG protocol standard).

3.0 RESULTS

MYLF survey results for all monitoring sites are provided below. Photographs of all monitoring sites are provided in Attachment A, representative MYLF photographs are provided in Attachment B, and inventory datasheets and field notes are included in Attachment C.

Echo Lake – Camp Harvey Tributary and Associated Ponds (Site 440 T/L)

During the 2011 MYLF monitoring surveys, one tadpole was observed at Site 440 T/L Subsite C. The tadpole was 74 mm in length and Gosner stage 39-40. MYLF observations are summarized in Table 2.

Table 2 – Survey Results at Site 440 T/L

Survey Site	Survey Date	MYLF Observed	# Adults	# Subadults	# Larvae	# Egg Masses
Subsite A (Cagwin Lake)	9/1/11	No	-	-	-	-
Subsite B	8/22/11	No[1]	-	-	-	-
Subsite C	8/22/11	Yes[2]	-	-	1 (Gosner stage 39-40)	-
Subsite D	8/22/11	No	-	-	-	-
Subsite E	8/29/11	No[3]	-	-	-	-
Subsite F (Camp Harvey tributary)	8/22/11	No	-	-	-	-

[1] = 2 sierran chorus frog (*Pseudacris sierra*) larvae observed.
[2] = 90 sierran chorus frog and 1 long-toed salamander larvae (*Ambystoma macrodactylum*) also observed.
[3] = 50 sierran chorus frog larvae observed.

Silver Lake (Site 750 LP)

No MYLF were observed along the lake margin during the August 24, 2011 survey. The lake level was approximately 0.33 m (1.0 ft) below maximum elevation. Abundant small fish were observed in shallow areas along with schools of large trout.

Camp Silverado (Site 753 IT)

No amphibians were observed in the creek during the August 24, 2011 survey.

Unnamed Silver Lake Tributary (Site 752 IT)

One adult MYLF was positively identified during the August 25, 2011 survey, and two additional adult frogs (also likely MYLF) were also observed jumping into a cascade located approximately 0.4 mi upstream from the lake; however, this sighting could not be verified even after a follow-up visit.

Table 3 – Survey Results at Site 752 IT

Survey Site	Survey Date	MYLF Observed	# Adults	# Subadults	# Larvae	# Egg Masses
Unnamed tributary to Silver Lake - 0.5 miles upstream from lake	8/25/11	Yes	1[1]	-	-	-

[1] = In addition, 2 potential adult frogs were observed jumping into a cascade but the MYLF sighting could not be verified.

Caples Lake (Site 895 LP)

No amphibians were observed along the lake margin during the August 24, 2011 survey. Water level was approximately 0.25 m (1.0 ft) below maximum elevation for lake. Abundant small fish (likely minnows) and signal crayfish (*Pacifasticus leniusculus*) were observed in the shallow water habitat along portions of the shoreline.

Lake Aloha and Associated Downstream Ponds and Habitats (Site 550 LP)

Lake Aloha

During the 2011 MYLF monitoring surveys, 10 adults, 4 subadults, 3 juveniles, and 55 larval MYLF were observed along the Lake Aloha southern shoreline and associated pond habitats. A total of 56 adults, 27 subadults, 4 juveniles, and 16 larvae MYLF were observed within the Lake Aloha tributary along the western shoreline. A total of 64 adults, 42 subadults, 11 juveniles, and 331 larval MYLF were observed within the snowmelt pond along the Lake Aloha western shoreline. MYLF observations at Site 550 LP are summarized in Table 3, and locations of each MYLF observation is noted in Figure 3.

Table 4 – Survey Results at Site 550 LP

Survey Site	Survey Date	MYLF Present	MYLF Breeding Observed	# Adults	# Subadults	# Juv.	# Larvae	# Egg Masses
Lake Aloha - southern shoreline	8/31, 9/1	Yes	Yes	10	4	3	55	-
Lake Aloha tributary on western shoreline	9/1	Yes	Yes	56	27	4	16	-
Snowmelt pond along western shoreline	9/1	Yes	Yes	64	42	11	331	-
Incidental observations in the vicinity of the Lake Aloha tributary	9/1	Yes	No	2	-	-	-	-
Incidental observations in the vicinity of the snowmelt pond	9/1	Yes	No	2	-	-	-	-

Ponds Downstream of the Lake Aloha Auxiliary Dams (Conducted in conjunction with trout removal activities)

In 2011, a total of 24 ponds were surveyed in the ponds and habitats downstream of the Lake Aloha auxiliary dams (Figure 4). MYLF observations are summarized in Table 2. A total of 13

adult MYLF (plus 3 incidental observations), 19 subadults (plus 5 incidental observations), 12 juveniles (plus 5 incidental observations), and 34 larvae (over-wintering tadpoles and metamorphosing tadpoles) were observed during the 2011 surveys. Two hatched MYLF egg masses were observed in Pond A, but no tadpoles from the 2011 hatch were observed during the surveys. Locations of MYLF observations are noted in Figure 4. Most MYLF were observed basking near the edges of the ponds. Over-wintering tadpoles ranged in size from approximately 62 to 79 mm TL.

Chorus frog (*Pseudacris sierra*) tadpoles were common and often abundant in the survey ponds; however, no adult chorus frogs were observed. Chorus frog tadpoles were observed in 8 of the 24 ponds (total of approximately 1,047 individuals). A total of 15 western terrestrial garter snakes (*Thamnophis elegans*) were observed at 8 of the 24 ponds (4 adult and 11 subadult snakes). Most snakes that were palpated had empty stomachs, but one had been feeding on chorus frog tadpoles.

Table 5 – Survey Results at 24 Ponds Downstream of Lake Aloha Auxiliary Dams

Survey Site	Survey Date	MYLF Present	MYLF Breeding Observed	# Adults	# Subadults	# Juv.	# Larvae	# Egg Masses
Pond a	8/29	Yes	Yes	-	1	4	16	-
Pond b	8/30	Yes	No	-	3	-	-	-
Pond c	8/30	Yes	No	3	-	1	-	-
Pond d	8/29	Yes	Yes	-	-	1	1	-
Pond e	8/29	Yes	Yes	1	-	-	8	-
Pond f	8/30	Yes	No	2	-	-	-	-
Pond g	8/30	Yes	No	1	-	-	-	-
Pond h	8/31	No	No	-	-	-	-	-
Pond i	8/30	Yes	No	-	3	1	-	-
Pond j	8/30	Yes	Yes	-	-	2	8	-
Pond k	8/30	No	No	-	-	-	-	-
Pond l	8/30	No	No	-	-	-	-	-
Pond m	8/30	Yes	No	2	-	-	-	-
Pond n	8/31	Yes	No	1	1	-	-	-
Pond o	8/31	Yes	No	1	1	-	-	-
Pond p	8/30	Yes	No	1	2	2	-	-
Pond q	8/31	No	No	-	-	-	-	-
Pond r	8/31	Yes	No	-	-	1	-	-
Pond s	8/31	Yes	No	1	-	-	-	-
Pond t	8/30	No	No	-	-	-	-	-
Pond u	8/30	Yes	No	-	6	-	-	-
Pond v	8/31	No	No	-	-	-	-	-
Pond w	8/30	Yes	No	-	2	-	-	-
Pond x	8/31	Yes	Yes	-	-	-	1	-
Totals				13	19	12	34	0
Incidental observations at other nearby ponds	8/29 – 8/31	Yes	No	3	5	5	-	-

Upper Echo Lake (Site 455 LP)

No amphibians were observed during the August 22, 2011 survey along Upper Echo Lake in the vicinity of the Camp Harvey tributary. Small fish were abundant in shallow water areas.

Emigrant Creek (Site 897 IT)

No amphibians were observed during the August 23, 2011 survey. The creek was dry beyond 0.6 miles upstream of Caples Lake.

4.0 DISCUSSION

Results of the 2011 MYLF surveys indicate that the numbers of MYLF observed at these sites in 2011 were generally similar to that observed in 2004 (ECORP 2005) during the initial survey efforts. However, it should be noted that the sites were refined following the 2004 sampling. A comparison of the 2011 VES results with previous survey results are provided below in Table 6.

Table 6 – Comparison of MYLF VES Results for 2011 Relative to Previous Survey Efforts

Survey Year	Survey Sites	MYLF Present	MYLF Breeding Observed	# Adults	# Subadults	# Juv.	# Larvae	# Egg Masses
2004								
	440 IT/L, Subsite C	Yes	Yes	-	-	2	-	-
	753 IT	Yes	Yes	6	-	1	-	-
	550 LP	Yes	Yes	40	>60	>25	100s	-
	24 Ponds Downstream of Lake Aloha	-	-	-	-	-	-	-
2007								
	24 Ponds Downstream of Lake Aloha	Yes	Yes	19	31	-	4	-
2010								
	24 Ponds Downstream of Lake Aloha	Yes	Yes	19	29	-	35	-
2011								
	440 IT/L, Subsite C	Yes	Yes	-	-	-	1	-
	Site 752 IT	Yes	Yes	1	-	-	-	-
	550 LP	Yes	Yes	130	73	18	402	-
	24 Ponds Downstream of Lake Aloha	Yes	Yes	13	19	12	34	-

At Site 550LP (Lake Aloha and associated downstream ponds), 2011 observations indicate that the MYLF population at all of these sites including the ponds downstream of the Lake Aloha

auxiliary dams are fairly robust, and population numbers appear to be relatively stable. Similar numbers of MYLF were observed in 2011 to that documented in both 2010 and 2007; and the number observed during the initial surveys conducted in 2004 (ECORP 2005) were also generally similar. In 2011, MYLF were observed in 19 of the 24 ponds downstream of Lake Aloha (MYLF were observed in 19 ponds in 2010 and 16 ponds in 2007; (GANDA 2007 and 2010). It is likely that the increased numbers of frogs observed in 2010 and 2011 relative to 2007 is, at least partially, associated with the later survey period (August 2011 and August 2010 relative to July 2007); but may also reflect improved breeding conditions and/or recruitment during 2010 and 2009 compared to 2006.

In 2011, MYLF were observed in Pond A (where 1 brook trout [*Salvelinus fontinalis*] was captured in 2011 and 2 were captured in 2004), Pond I (where 4 brook trout were captured in 2010), and Pond J (where 4 brook trout were captured in 2011, 12 were collected in 2010, and 2 were captured in 2007).

5.0 REFERENCES

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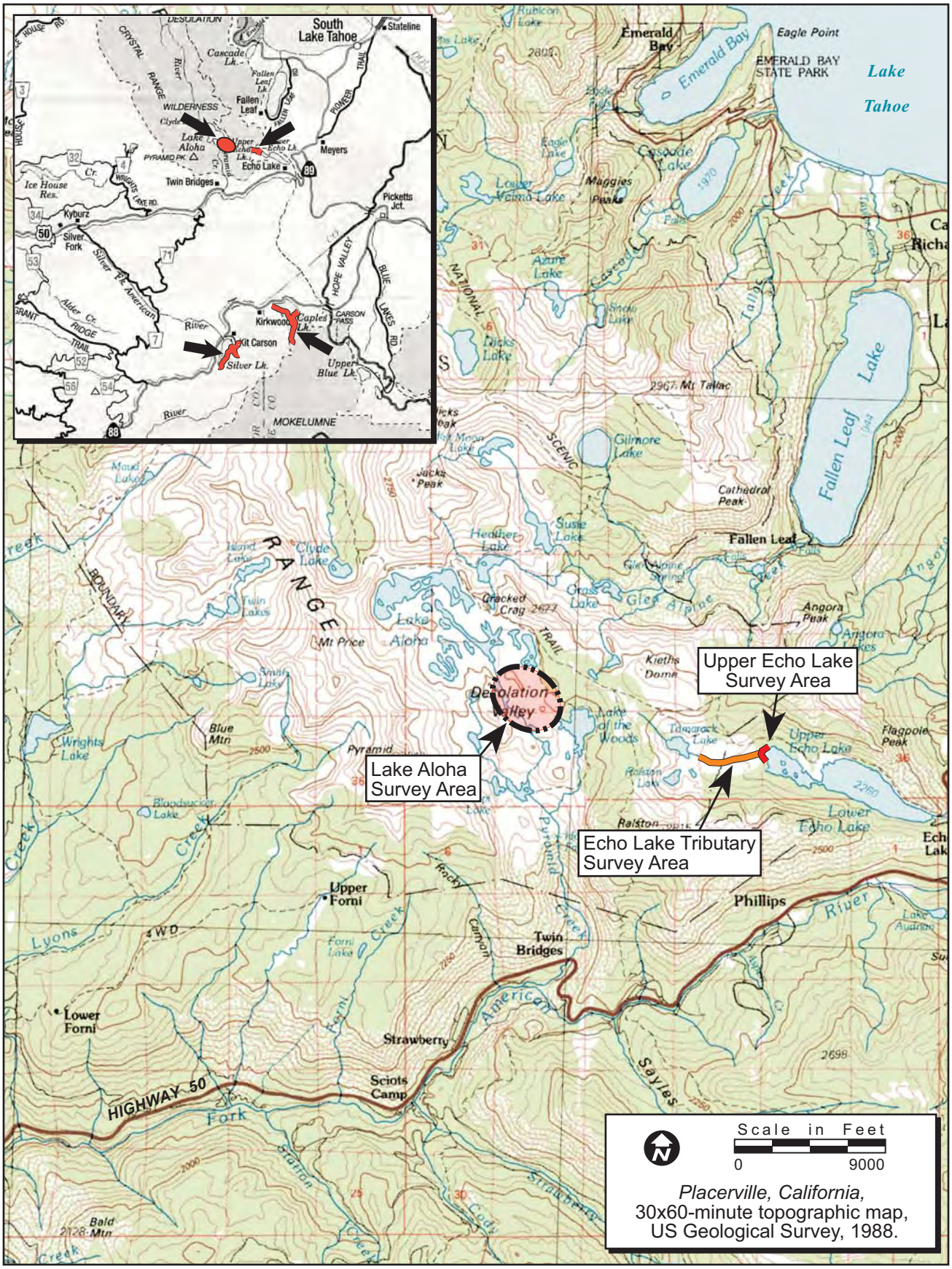


Figure 1. Project Site and Vicinity - Lake Aloha and Echo Lake

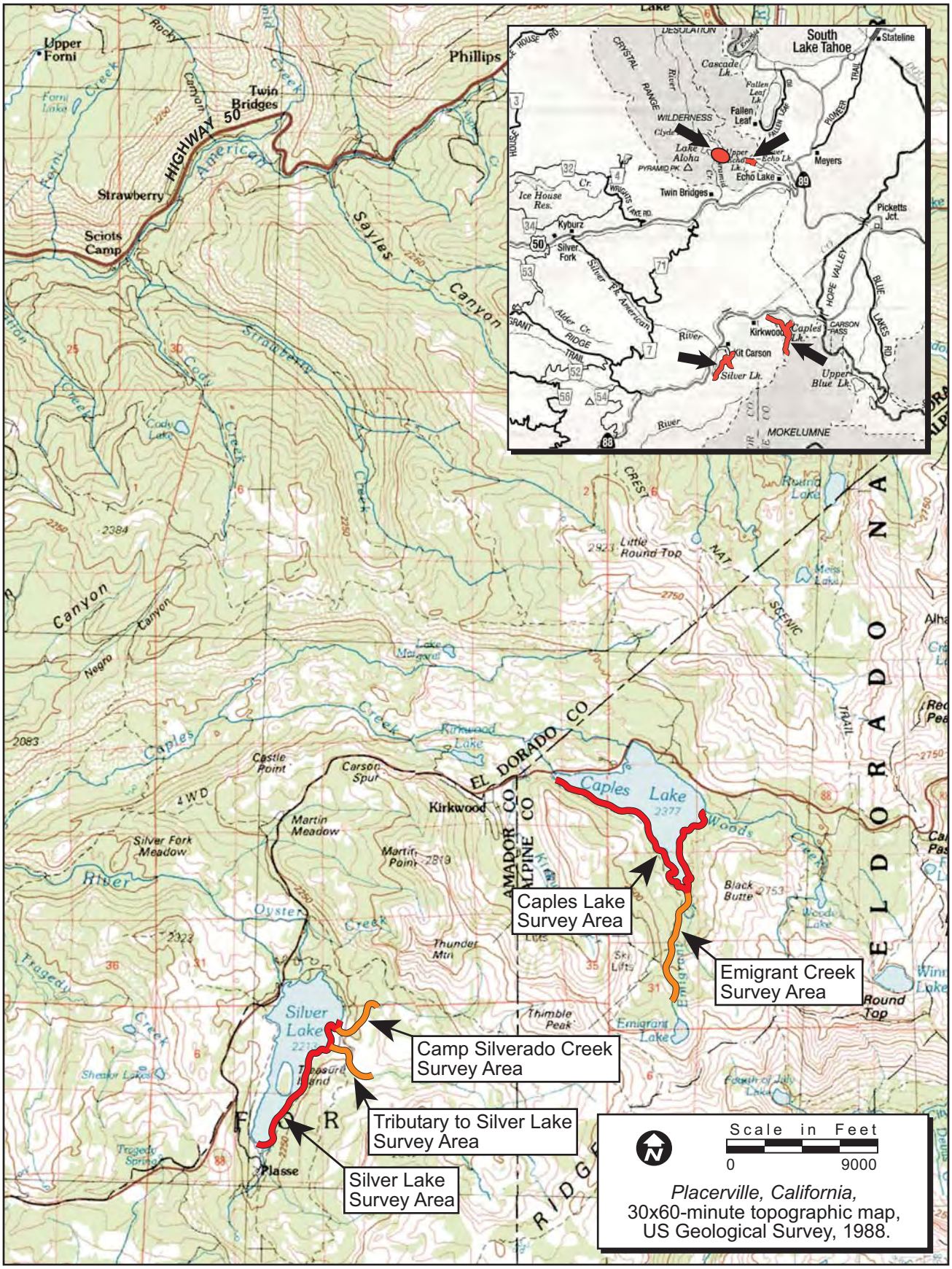


Figure 2. Project Site and Vicinity - Caples Lake and Silver Lake

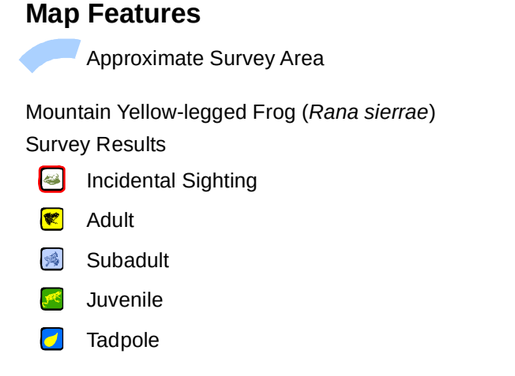
Figure 3. MYLF Survey Results: Lake Aloha Southern Shoreline and Western Tributary to Snowmelt Pond

Map Features

Approximate Survey Area

Mountain Yellow-legged Frog (*Rana sierrae*) Survey Results

- Incidental Sighting
- Adult
- Subadult
- Juvenile
- Tadpole



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Location: N:\2011\2011-073 EID Amphibian Monitoring - Lake Aloha Trout\MAPS\SSS_Survey_and_Mapping\MLYFMaps\v1\LakeAloha_Survey_Results.mxd (eck, 2/24/2012)

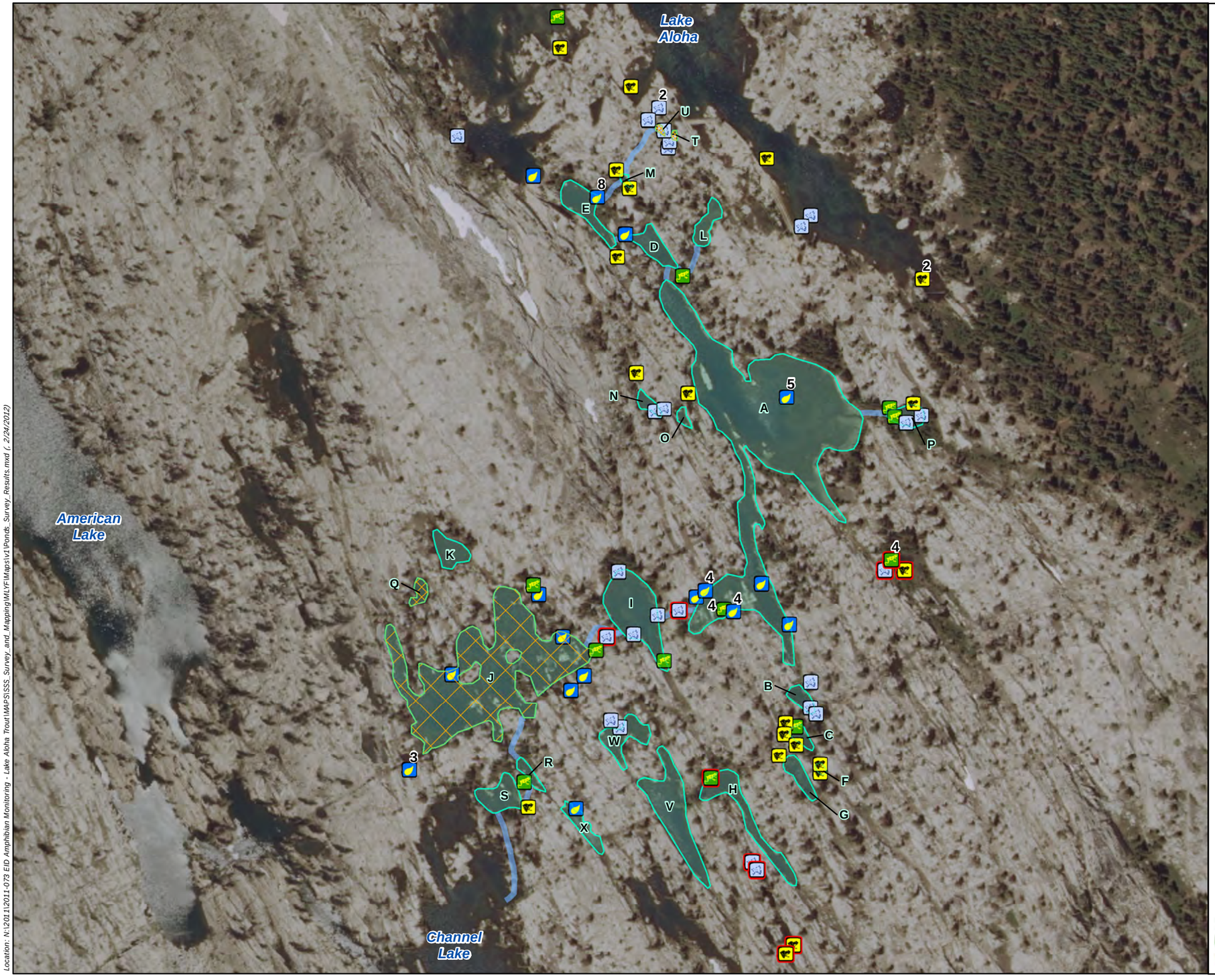
2011-073 EID Amphibian Monitoring - Lake Aloha

1 : 12,000

Meters
0 50 100 200 300 400

Map Date: 2/24/2012

Figure 4. MYLF Survey Results: Lake Aloha Auxilliary Dams Overflow Downstream Ponds

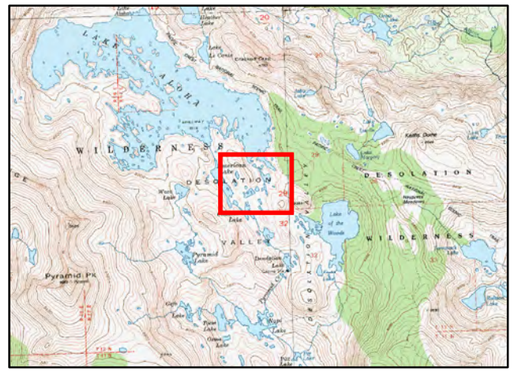


Map Features

- Survey Ponds
- Overflow Channel Location
- Fairy Shrimp (*Streptocephalus sealii*)

Mountain Yellow-legged Frog (*Rana sierrae*) Survey Results

- Incidental Sighting
- Adult
- Subadult
- Juvenile
- Tadpole



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2011-073 EID Amphibian Monitoring - Lake Aloha

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Map Date: 2/24/2012

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LIST OF ATTACHMENTS

Attachment A – Site Photographs

Attachment B – MYLF Photographs

Attachment C – Inventory Datasheets and Field Notes

ATTACHMENT A

Site Photographs

Site 750 LP - looking northwest

Site 750 LP - looking east

Site 750 LP - looking east

Site 750 LP - looking west

Representative Site Photos - Site 750 LP: Silver Lake
Southern and Eastern Shoreline, August and September 2011

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Site 753 IT - looking west

Site 753 IT - looking east

Site 753 IT - looking east

Site 753 IT - looking east

Representative Site Photos - Site 753 IT: Camp Silverado Creek, August 2011

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Site 895 LP - looking east towards dam

Site 895 LP - looking weast

Site 895 LP - looking north

Site 895 LP - looking north

Representative Site Photos - Site 895 LP: Caples Lake Southern Shoreline, August 2011

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Subsite A. Looking south

Subsite A. Looking west

Subsite B. Looking south

Subsite B. Looking west

Representative Site Photos - Site 440 T/L: Echo Lake in Vicinity of Camp Harvey, August and September 2011

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Subsite C. Looking west

Subsite C. Looking south

Subsite C. MYLF tadpole

Subsite C. MYLF tadpole

Representative Site Photos - Site 440 T/L: Echo Lake in Vicinity of Camp Harvey, August and September 2011

Subsite D. Looking west

Subsite E. Looking south

Subsite F. Looking west

Subsite F. Looking west

Representative Site Photos - Site 440 T/L: Echo Lake in Vicinity of Camp Harvey, August and September 2011

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Pond A. Looking north.

Pond A. Looking south.

Pond B.

Pond C.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond D.

Pond E.

Pond F.

Pond G.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond H.

Pond I.

Pond J.

Pond K.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond L.

Pond M.

Pond N.

Pond O.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond P.

Pond Q.

Pond R.

Pond S.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond T.

Pond U.

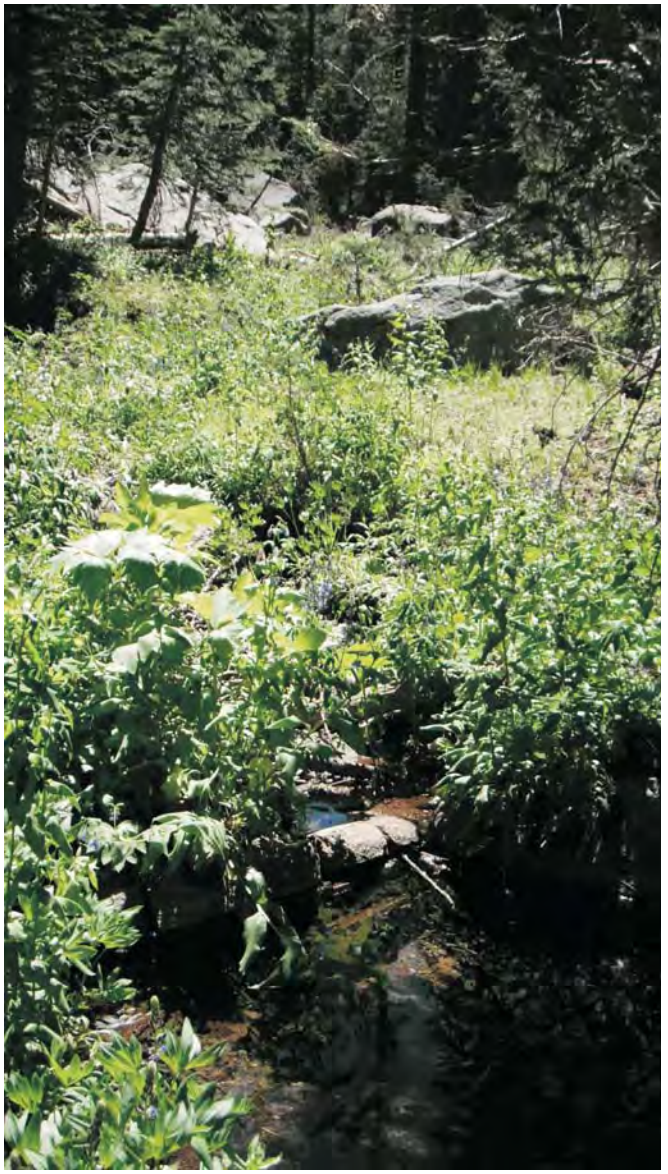
Pond V.

Pond W.

Representative Site Photos - Lake Aloha Ponds, August 2011

Pond X.

Representative Site Photos - Lake Aloha Ponds, August 2011



Representative Site Photos - Site 897 IT: Emigrant Creek in Vicinity of Caples Lake, August and September 2011

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Representative Site Photos - Site 455 LP: Upper Echo Lake Shoreline in Vicinity of Camp Harvey, August and September 2011

Representative Site Photos - Site 752 IT: Unnamed Silver Lake Tributary, August and September 2011

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ATTACHMENT B

MYLF Photographs

Tadpole

Tadpole with legs

Metamorph

Juvenile

Representative Site Photos - Lake Aloha,
Mountain Yellow-legged Frogs Observed, August 2011

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Subadult

Adult - female

Adult - male

Adult - female

Representative Site Photos - Lake Aloha,
Mountain Yellow-legged Frogs Observed, August 2011

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Adult - male

Adult - male

Representative Site Photos - Unnamed Silver Lake Tributary, Mountain Yellow-legged Frogs Observed, August 2011

ATTACHMENT C

Inventory Datasheets and Field Notes

20° Air temp

SNYLF Amphibian Data Sheet - 2009

Site ID: Subsite 4440 T/L A	Date: (mmm-dd-yy) 07/21/11	Water type: (Lake) Unmapped pond Stream Marsh Spring seep	(Perennial) Ephemeral		
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: (from map) CAGWIN	Planning Watershed: (from "Lakes Checklist")	Location (use common language)			
County: El Dorado	Elevation: m ft 7737	East UTM: 0752158	North UTM: 4303250 (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong	pH: source:	Max. lake depth (m): 15-20'	Team members: EK, BZ
Amphibian observer(s): EK, BZ	Survey start time: End time (hhmm): 1300	Total survey duration: (min) 30 MIN	Weather: (Clear) Overcast Rain Snow		
			Wind: (Calm) Light Strong		
Stream only: **Start** East UTM North UTM	**End** East UTM North UTM	Stream order:	Color: (Clear) Stained		
			Turbidity: (Clear) Cloudy		

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
Calling? Y N Voucher? Y N #						(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	No RASI observed in Lake. 8 USFS Gill nets observed in Lake.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

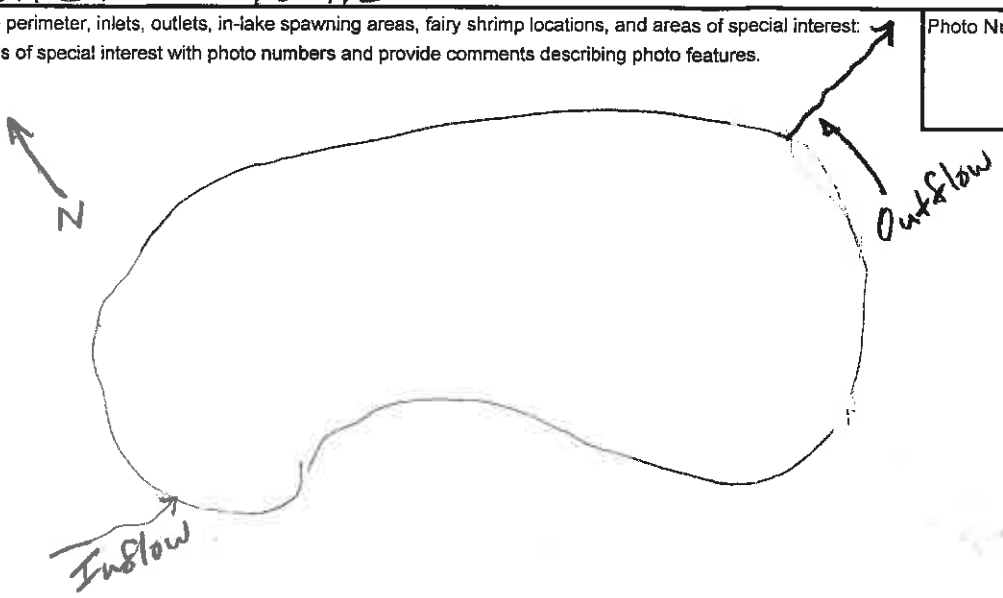
Water Temp. (.5m from shore, 10cm deep):	16°C @ 1300 C or F	Air Temp. (1m above water):	21 @ 1300 (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Subsite A - 440 T/L

Drawing of lake perimeter, inlets, outlets, in-lake spawning areas, fairy shrimp locations, and areas of special interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers



If lake is not shown on topo map, **give approximate dimensions** (m):_____

Description of inlets, including **barriers, spawning areas,** and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Description of outlets, including **barriers, spawning areas,** and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Fish survey: Visual **Nets**	Justification (if visual):

PLEASE Return to: Curtis Milliron, Ca. Dept. of Fish and Game (760) 872-1125; 407 W. Line Street Bishop, CA 93514

May, 2001 Version 1.0 J:YOSEdatasheet00a

Field review JB Copied_____ Entered_____ Proofed_____

SNYLF Amphibian Data Sheet - 2009

Site ID: Subsite B 440 T/L	Date: 08/22/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep	(Perennial) Ephemeral		
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Unnamed Pond (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): ~250 m SSE of Cagwin Lake			
County: El Dorado	Elevation: (m) ft 2392m/7830 ft	East UTM: 0752180 10 s (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4303056		
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m): 1.75	Team members: ES, DB
Amphibian observer(s): ES, DB	Survey start time: 1305 End time (hhmm): 1335	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong		
Stream only: Start East UTM 752214 North UTM 4303063	End East UTM North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy		

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
PSSI Calling? Y (N) Voucher? Y (N) #___			2			(Visual) Aural (Dip Net/Seine) Trapped Hand Collected
Calling? Y N Voucher? Y N #___					No fish observed	Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 19 @ 1305 (C) or F	Air Temp. (1m above water): 23 @ 1305 (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

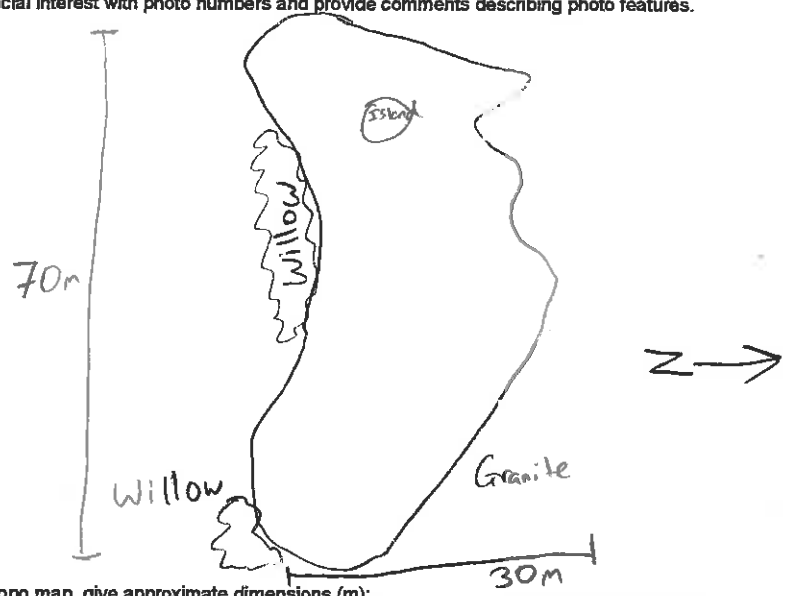
Comm on Yellow throat

Photos: 826 & 827
DOC

440 T/L Subsite B

Drawing of lake perimeter, inlets, outlets, in-lake spawning areas, fairy shrimp locations, and areas of special interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers



If lake is not shown on topo map, give approximate dimensions (m):_____

Description of inlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Description of outlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Fish survey: Visual Nets	Justification (if visual):

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Subsite C

SNYLF Amphibian Data Sheet - 2009

still ≥ 60 cm deep

Site ID: 440 T/L	Date: 8/22/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep; (Perennial) Ephemeral	
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: Unnamed Pond (from map) Near Caguin Lake	Planning Watershed: (from "Lakes Checklist")	Location (use common language)	
County: El Dorado	Elevation: (m) ft 2317	East UTM: 752405 (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4303299
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source: / Max. lake depth (m): 0.9 / Team members: DB, ES
Amphibian observer(s): DB, ES	Survey start time: 12:00 End time (hhmm): 12:40	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong
Stream only: Start East UTM: [illegible] North UTM: [illegible]	End East UTM: North UTM:	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
PSSI Calling? Y (N) Voucher? Y (N) #___			𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 𝍸			(Visual) Trapped; Aural Hand Collected; Dip Net/Seine
T. elegans Calling? Y (N) Voucher? Y (N) #___	1	11				(Visual) Trapped; Aural (Hand Collected); Dip Net/Seine
R. sierrae Calling? Y N Voucher? Y N #___			1 (74mm, rear legs, 39-40 gosner)		Photos: 806 - 813	Visual Trapped; Aural Hand Collected; (Dip Net/Seine)
AMMA Calling? Y (N) Voucher? Y (N) #___			1			(Visual) Trapped; Aural Hand Collected; Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped; Aural Hand Collected; Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 19.0 @ 11:55 (C) or F					Air Temp. (1m above water): 19.0 @ 11:55 (C) or F	

752378
4303285

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

COR, DYT

Habitat; Flow - Ø cm/sec.
For RASI Depth - 51 cm
N from Shore - 3.2
Substrate: 100% fines + soil

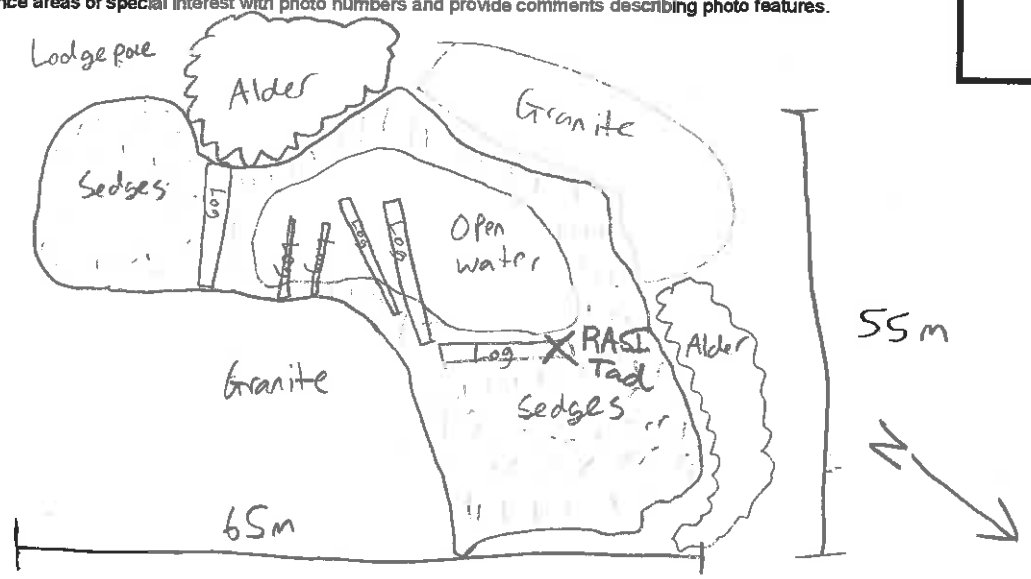
Pond. Photos: 14-18

440 T/L - Subsite C

65m long x 55m wide

Drawing of lake perimeter, inlets, outlets, in-lake spawning areas, fairy shrimp locations, and areas of special interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers



If lake is not shown on topo map, give approximate dimensions (m):_____

Description of inlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Description of outlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Fish survey: Visual Nets	Justification (if visual):

PLEASE Return to: Curtis Milliron, Ca. Dept. of Fish and Game (760) 872-1125; 407 W. Line Street Bishop, CA 93514

May, 2001 Version 1.0 J:YOSEdatasheet00a

Field review GB Copied_____ Entered_____ Proofed_____

Subsite D

SNYLF Amphibian Data Sheet - 2009

Site ID: 440 T/L	Date: 08/22/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: Unnamed Pond (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)				
County: El Dorado	Elevation: (m) ft 2324 m	East UTM: 752302	North UTM: 4303602 (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m): 1.0/100%	Team members: ES, DB	
Amphibian observer(s): ES, DB	Survey start time: 1405 End time (hhmm): 1425	Total survey duration: (min) 20 min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong			
Stream only: **Start** East UTM North UTM	**End** East UTM North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy			

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
Calling? Y N Voucher? Y N #	No fish observed No amphibians observed				COR, DYT	(Visual) Trapped Aural Hand Collected (Dip Net/Seine)
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 18 @ 1405 (C) or F

Air Temp. (1m above water): 22 @ 1405 (C) or F

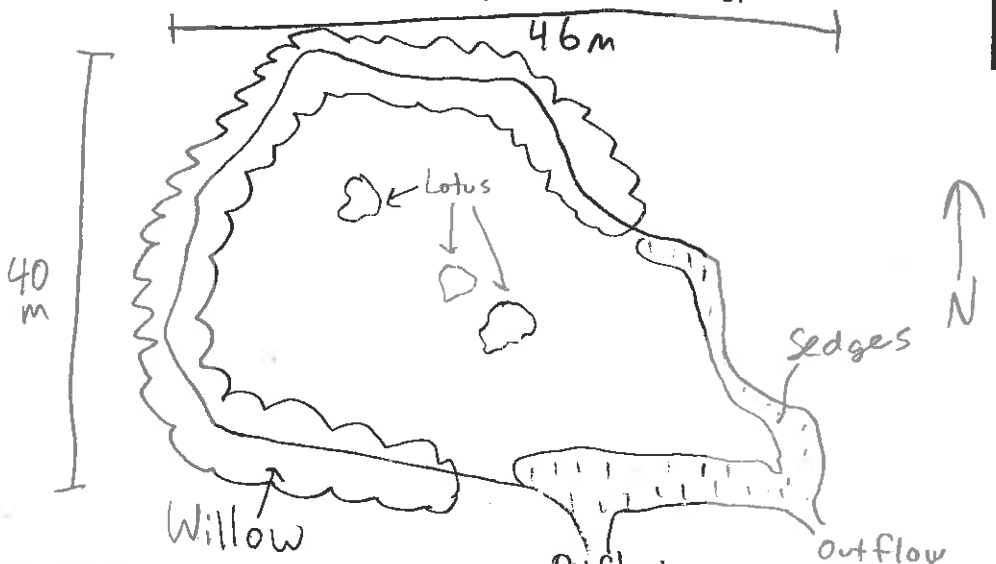
amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 828-836

Subsite D - 440 T/L

Drawing of lake perimeter, inlets, outlets, in-lake spawning areas, fairy shrimp locations, and areas of special interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers



If lake is not shown on topo map, give approximate dimensions (m):_____

Description of inlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Description of outlets, including barriers, spawning areas, and other features of interest:
Reference areas of special interest with photo numbers and provide comments describing photo features.

Photo Numbers

Fish survey: Visual Nets | Justification (if visual):

PLEASE Return to: Curtis Milliron, Ca. Dept. of Fish and Game (760) 872-1125; 407 W. Line Street Bishop, CA 93514

May, 2001 Version 1.0 J:YOSEdatasheet00a

Field review CAB Copied_____ Entered_____ Proofed_____

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Subsite 440 T/L E	Date: 8/29/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Just East of upper Echo Lake	
County: El Dorado	Elevation: m (ft) 7419	East UTM: 0753300 10s (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4303459
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source: / Max. lake depth (m): 1.0 / Team members: DB, EK

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): Silt ___ < 2 mm ___ 2-32 mm ___ 32-64 mm ___ 64-256 mm ___ > 256 mm ___ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): Silt-64 mm ___ >64-256 mm ___ > 256 mm ___ grass/sedge/fern ___ woody debris ___ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp: Present in lake? Y N; Collection made? Y N	In lake-associated pools? Y N; Collection made? Y N	Other locations? Collection made? Y N; describe locations on map

Amphibian observer(s): DB, EK	Survey start time: 1200; End time (hhmm):	Total survey duration: (min)	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong			
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy	

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
THEL Calling? Y (N) Voucher? Y (N) #	12 - congregating @ last Pool					(Visual) Trapped Aural Hand Collected Dip Net/Seine
PSSI Calling? Y (N) Voucher? Y (N) #			50			(Visual) Trapped Aural (Hand Collected) Dip Net/Seine
Calling? Y N Voucher? Y N #	- Pond is uniform in depth ≤ 50 cm max. - Pond is almost dry - not suitable RASI breeding habitat - Substrate is silt mud w/ scattered granite cobble					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	- Emergent veg. is 95% and is sedges.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 28 @ 1210 (C) or F — Air Temp. (1m above water): 22 @ 1200 (C) or F

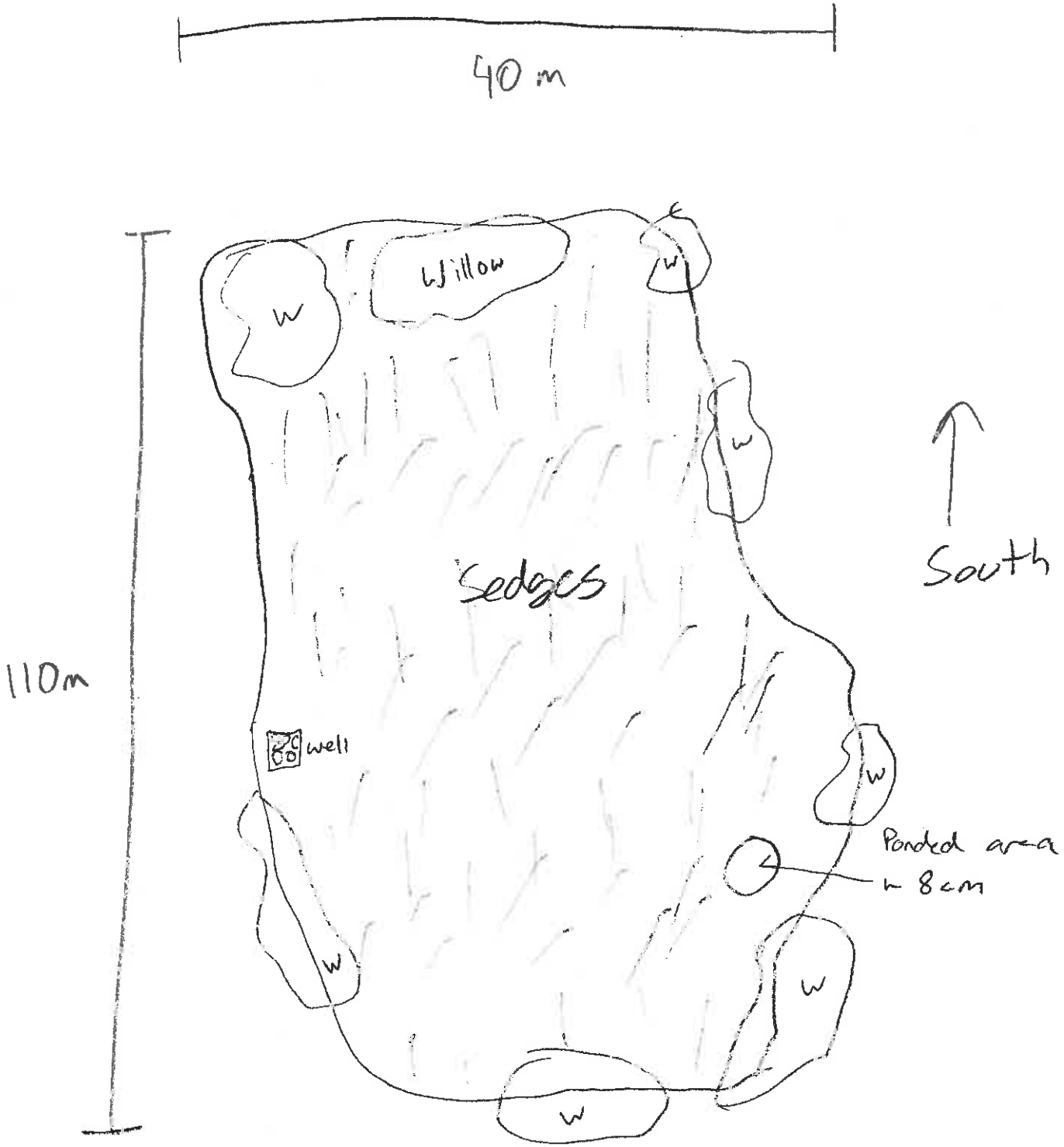
amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) PSSI Pseudacris sierra

Photos: 423 - last ponded area (Grumpy) 424 - overall Pond - facing South

110 x 40 m @ max

Field Review: QB

440 T/L Subsite E 8/29/11



SNYLF Amphibian Data Sheet - 2009

Site ID: ~~Subsite F~~ 440 T/L	Date: 8/12/11 (mmm-dd-yy)	Water type: Lake Unmapped pond (Stream) Marsh Spring seep, (Perennial) Ephemeral				
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
~~Lake~~ Name: (from map)		Planning Watershed: (from "Lakes Checklist")		Location (use common language) Tributary @ Camp Harvey West		
County: El Dorado	Elevation: m ft [illegible] 2321	East UTM:		North UTM: (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong	pH: source:	Max. ~~lake~~ stream depth (m): 1 m	Team members: ES, DB	
Amphibian observer(s): ES, DB		Survey start time: 1015 End time (hhmm): 1115	Total survey duration: (min) 55 min		Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong
Stream only: Start East UTM [illegible]	North UTM [illegible]	End East UTM 752566	North UTM [illegible]	Stream order:	Color: (Clear) Stained	Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
Calling? Y N Voucher? Y N #___	– –	No amphibians observed. No fish observed.				Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___	–	Survey started at foot bridge and ended where braided channel came				Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___	–	back together. Abundant overhanging alder + willow.				Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): [illegible] @ (C) or F — Air Temp. (1m above water): 20.0 @ (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 1+2 - U/S + D/S @ start; 98+99 U/

DOC 91-99

Field Review: DB

SNYLF Amphibian Data Sheet - 2009

Site ID: 750 LP	Date: 8/24/11 (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep	(Perennial) Ephemeral			
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: Silver Lake (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language) Southern and eastern shorelines of silver Lake				
County: Amador	Elevation: m (ft) 7335	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Caples Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong	pH: source:	Max. lake depth (m):	Team members: DB, EK	
Amphibian observer(s): DB, EK	Survey start time: 0955 End time (hhmm): 1230	Total survey duration: (min) 120 min	Weather: (Clear) Overcast Rain Snow			
			Wind: (Calm) Light Strong			
Stream only: 10s	Start East UTM 0750326	North UTM 4281035	End East UTM 10s 0751430	North UTM 4283166	Stream order:	Color: (Clear) Stained
						Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
TH EL Calling? Y (N) Voucher? Y (N) #___		1				~~Visual~~ Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___	-Water level ≤ 35cm -Abundant ≤25 14" -	small fish trout observed	below max in shallows			Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___	-Osprey (1) -Redhead ducks? -					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 18 @ 0950 (C) or F

Air Temp. (1m above water): 20 @ 0950 (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

End: 23°C

Photos: 879 & 880 - West & North @ start; 898 - end

Field Review: DB

SNYLF Amphibian Data Sheet - 2009

Site ID: 753 IT	Date: 8/24/11 (mmm-dd-yy)	Water type: Lake Unmapped pond (Stream) Marsh Spring seep; (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Camp Silverado Stream (from map) Creek	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Camp Silverado near Kit Carson Resort			
County: Amador	Elevation: m (ft) 7335 - 7572	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Caples Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. ~~lake~~ stream depth (m):	Team members: DB, EK
Amphibian observer(s): DB, EK	Survey start time: 1305 End time (hhmm): 1425	Total survey duration: (min) 70 min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong		
Stream only: Start East UTM 10s 0751430 North UTM 4283166	End East UTM 10s 0752242 North UTM 4283009	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy		

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
THEL Calling? Y (N) Voucher? Y (N) #		1				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	- no fish observed - Flow: ~2-3 cfs					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	- much of site was dominated by fallen woody debris and erodable banks. Abundant sediment deposits from spring runoff.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	- Several cascades - Middle was shaded at midday.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep):	14.5 @ 1300 (C) or F		Air Temp. (1m above water):	23.5 @ 1300 (C) or F		

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 897 - @ Confluence facing lake
(DOC) 898 - @ Confluence facing U/S
918 - @ end looking U/S
919 - @ end looking D/S

Field Review: DB

Caples Lake → From Dam to Emigrant Creek

SNYLF Amphibian Data Sheet - 2009

Site ID: 895 LP	Date: 8/23/11 (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep; (Perennial) Ephemeral			
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Caples Lake (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Southern Shoreline of caples Lake			
County: Alpine Co.	Elevation: m (ft) 7813	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Caples Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m):	Team members: ES, DB
Amphibian observer(s): ES, DB	Survey start time: 0915 End time (hhmm): 1155	Total survey duration: (min) 140 min	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	
Stream only: Start East UTM 755248	North UTM 4287857	End East UTM 757716	North UTM 4285834	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) (Cloudy) → +cloudy due to wave actic near shore

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
Calling? Y N Voucher? Y N #___	No amphibians observed. Abundant wave action first mile of survey.					Visual Trapped Aural Hand Collected Dip Net/Seine
TH EL Calling? Y (N) Voucher? Y (N) #___		1				Visual Trapped Aural (Hand Collected) Dip Net/Seine
Calling? Y N Voucher? Y N #___	Lake level ≈25 cm from maximum. Small fish observed. Abundant Crayfish (Signal crayfish)					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep):	16 @ 0910 (C) or F			Air Temp. (1m above water):	22 @ 0910 (C) or F	

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

End Air: 21°C

Photos: 840 & 41 @ start; 849 - end

Lake Temp at Emigrant creek: 9°C

Field Review: DB

Caples Lake Shoreline from Emigrant creek to Woods Creek

SNYLF Amphibian Data Sheet - 2009

Site ID: 195 LP	Date: 8/23/11 (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep	(Perennial) Ephemeral		
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Caples Lake (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Caples Lake Shoreline			
County: Alpine Co.	Elevation: m (ft) 7820	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Caples Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m):	Team members: ES, DB
Amphibian observer(s): ES, DB	Survey start time: 1400 End time (hhmm): 1535	Total survey duration: (min) 85 min	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	
Stream only: Start East UTM 757685	North UTM 4285857	End East UTM 757986	North UTM 4287324	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
THEL Calling? Y (N) Voucher? Y (N) #___	1					(Visual) Trapped; Aural Hand Collected; Dip Net/Seine
Northern Alligator Lizard Calling? Y (N) Voucher? Y (N) #___	1					(Visual) Trapped; Aural Hand Collected; Dip Net/Seine
Calling? Y N Voucher? Y N #___	No amphibians observed. Several large trout.					Visual Trapped; Aural Hand Collected; Dip Net/Seine
Calling? Y N Voucher? Y N #___	Abundant small fish in shallows. Water level is approximately 25cm from max.					Visual Trapped; Aural Hand Collected; Dip Net/Seine
Calling? Y N Voucher? Y N #___	Abundant	crayfish carcasses.				Visual Trapped; Aural Hand Collected; Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 15 @ 1400 (C) or F				Air Temp. (1m above water): 18 @ 1400 (C) or F		

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

End Air: 18°C

Photos: 864 - 874

Field Review: DB

end 1715

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID:	Date: (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Aloha	8/31/11	

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)
Aloha Lake		Lake Aloha Southern Shoreline

County:	Elevation:	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)
El Dorado	(m) ft 2475	749225	4304820

Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.6 source: HACH	Max. lake depth (m): ≥ 50?	Team members:
Pyramid Peak					DB, ES

Person recording habitat information: E. S

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Width (cm) and depth (cm) of inlets (width/depth):	Width (cm) and depth (cm) of outlets (width/depth):
(1) / (2) / (3) / (4) / (5) / (6) / no inlets	(1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m²): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m²): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m²): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m²): (1) (2) (3)

Fairy shrimp: Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? (Y) N Collection made? Y (N)	Other locations? 747214 x 4305181 describe locations on map Adjacent Pool Collection made? Y (N)

Amphibian observer(s):	Survey start time: 1215 End time (hhmm): 1715	Total survey duration: (min) 4h 55min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong
DB, ES			

Stream Start	East UTM	North UTM	End	East UTM	North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy
only	749225	4304820		747636	4304808		

Amphibian/reptile species	#adults	#subadults	#larvae	#egg masses	diseased/checked	Survey Method
RAMU Ad Calling? Y (N) Voucher? Y (N) #	749225 x 4304820	1 748953 x 4304993 55, ℓ	1 748802 4305359 57 ℓ	1 747683 x4304920 55 ℓ		(Visual) Aural Dip Net/Seine; Trapped Hand Collected
RAMU Sub Calling? Y (N) Voucher? Y (N) #	1 749141 35 mm, uk, uk, uk	1 749134 x 4304859 43, uk	1 749108 x 4304910 45, uk	1 749006 x 4304964 45, uk	2 748951 x 4305016 30, uk	(Visual) Aural Dip Net/Seine; Trapped Hand Collected
RAMU TAD Calling? Y (N) Voucher? Y (N) #	1 748923 65	1 748933 x 4304897 60 mm	1 748776 x 4305238 65mm	5 748752 4305251 65mm	1 748739 4305228 65mm	(Visual) Aural Dip Net/Seine; Trapped Hand Collected
RAMU Sub Calling? Y (N) Voucher? Y (N) #	748876 4304927 40, uk	1 748806 x 4305201 40, uk				(Visual) Aural Dip Net/Seine; Trapped Hand Collected
RAMU TAD Calling? Y (N) Voucher? Y (N) #	1 748710 x 4305270 65mm	1 748731 4305221				(Visual) Aural Dip Net/Seine; Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 18.5 @ 1215 (C) or F

Air Temp. (1m above water): 22.5 @ 1215 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Adult - 5
Sub - 8
Tad - 11

* 2 adults, 52 @ 57 mm in cobble @ start - trib inlet

bumpy - 490 & 491 mylr @ start

end 21.5 Ta
16.4 Tw

Photos - sneezy 419 beginning habitat, 420-425 mylrs @ begin

utm 747636 x 4304808

550 LP

SNYLF Amphibian Data Sheet - 2009

Site ID: Lake Aloha	Date: 9/1/11 (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep	(Perennial) Ephemeral		
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Lake Aloha (from map) South Shore	Planning Watershed: (from "Lakes Checklist")	Location (use common language): North west of Echo Lake			
County: El Dorado	Elevation: 8100 m (ft)	East UTM: 747633	North UTM: 4304813 (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Pyramid Peak, CA	Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong	pH: source:	Max. lake depth (m):	Team members: DB, ES
Amphibian observer(s): ES, DB	Survey start time: 0930 End time (hhmm): 1145	Total survey duration: (min) 2hr 10min	Weather: (Clear) Overcast Rain Snow; Wind: (Calm) Light Strong		
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy		

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
RAMU Tad Calling? Y (N) Voucher? Y (N) #	>40 747214 x4305181 55-65mm*	3 747424 x4305334 65				(Visual) Trapped Aural Hand Collected Dip Net/Seine
RAMU Adult Calling? Y (N) Voucher? Y (N) #	1 747803 x4305009 55mm ?	1 747292 x4305097 45 ?	1 dead 747435 x4305320 55mm ?			(Visual) Trapped Aural Hand Collected Dip Net/Seine
RAMU Juvie Calling? Y (N) Voucher? Y (N) #	1 747301 x4305397 ~30 ?	1 747289 x4305475 30 ?				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 13.5 @ (C) or F					Air Temp. (1m above water): 17.2 @ (C) or F	

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

*Several different stages - 3/10 w/hind legs - Also flushed T. elegans as I approached - Also fairy shrimp in pond

Tad - 43
Juv - 2
Adult - 2

19.2 = Tank

Photo start 461 Sneetz,
end 481

550 LP

SNYLF Amphibian Data Sheet - 2009

Site ID: Lake Aloha Tributary | Date: 09/01/11 (mmm-dd-yy)

Water type: Lake | Unmapped pond | ~~Stream~~ | Marsh | Spring seep | Perennial | Ephemeral

If not sampled, reason: stream widening | frozen, dry, or not found | part of another water body

Lake Name: Aloha Lake Trib (from map)

Planning Watershed: (from "Lakes Checklist")

Location (use common language): Tributary To Lake Aloha Along Northwest Shoreline

County: El Dorado

Elevation: m (ft) 8130 - 8400 ft

East UTM: 746361

North UTM: 4305829 (only for lakes w/o a site ID; obtain from GPS unit)

Topographic Map (7.5'): Pyramid Peak

Weather: (Clear) | Overcast | Rain | Snow

Wind: Calm | (Light) | Strong

pH: source:

Max. lake depth (m): —

Team members: DB, ES

Amphibian observer(s): ES, DB

Survey start time: 1215

End time (hhmm): 1250

Total survey duration: (min) 30

Weather: (Clear) | Overcast | Rain | Snow

Wind: Calm | (Light) | Strong

Stream only: Start East UTM: 746361 North UTM: 4305829

End East UTM: 746376 North UTM: 4305479

Stream order:

Color: (Clear) | Stained

Turbidity: (Clear) | Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
RAMU Calling? Y (N) Voucher? Y (N) #	1 746304 x4305552 40 ?	1 746290 x4305452 40 ?	1 746325 x4305453 40 ?	2 746365 x4305504 40	3 746348 x4305503 35	(Visual) Aural Dip Net/Seine Trapped Hand Collected
RAMU Adult Calling? Y (N) Voucher? Y (N) #	1 746274 x4305490 55 ?	1 746257 x4305492 50	1 746264 x4305496 50	1 746271 x4305457 502	6 746323 x4305499 50 is a	(Visual) Aural Dip Net/Seine Trapped Hand Collected
RAMU Adults Calling? Y (N) Voucher? Y (N) #	9 746347 x4305493 45-55	4 746353 x4305512 45-50	4 746365 x4305504 50?	2 746348 x4305503 50-55		(Visual) Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 19 °C @ 1215 (C) or F

Air Temp. (1m above water): 19.0 @ 1215 (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos ! (Sneezy)

26. 39 65

More Data on back

Snowmelt

SNYLF Amphibian Data Sheet - 2009

Site ID: Pond S50 LP	Date: 9/1/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep; (Perennial) Ephemeral	
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: Lake Aloha trib. (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language) Snowmelt Pond located ≈1200' South of Lake Aloha	
County: El Dorado	Elevation: m (ft) ~8375	East UTM: 0746376	North UTM: 4305479 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source: / Max. lake depth (m): 2.5 / Team members: DB, ES
Amphibian observer(s): DB, ES	Survey start time: 1250 End time (hhmm): 1335	Total survey duration: (min) 40 min	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	~~# adults~~	~~# subadults~~	~~# larvae~~	~~# egg masses~~	Comments	Survey Method
RASI Tadpoles Calling? Y (N) Voucher? Y (N) #___	Approximately 311 tadpoles observed in the pond. Ranged in size from ≈40-75mm in length and Grosner stage 26 to 41.					(Visual) Trapped; Aural Hand Collected; (Dip Net) Seine
RASI Metamorphs Calling? Y (N) Voucher? Y (N) #___	20 metamorphs were observed. Ranging in size from 55-75 mm and Grosner stage 42 to 44.					(Visual) Trapped; Aural Hand Collected; (Dip Net) Seine
RASI Juveniles Calling? Y (N) Voucher? Y (N) #___	11 juveniles were observed, ranging in			size from 25-30 mm. SVL		(Visual) Trapped; Aural Hand Collected; (Dip Net) Seine
RASI Subadults Calling? Y (N) Voucher? Y (N) #___	42 subadults were observed, ranging in			size from 30-40 mm SVL.		(Visual) Trapped; Aural Hand Collected; (Dip Net) Seine
RASI Adults Calling? Y (N) Voucher? Y (N) #___	65 Adults were observed, ranging in			size from 40-65 mm SVL.		(Visual) Trapped; Aural Hand Collected; (Dip Net) Seine
Water Temp. (.5m from shore, 10cm deep): 18-22 @ 1230 (C) or F				Air Temp. (1m above water):	19 °C @ 1230	(C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

100's of PSRE tadpoles in pond. No THEL observed.

Photos!
(Sneezy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond A	Date: 8/29/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/s of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8118	East UTM: 10s 0749025 (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4304803
Topographic Map (7.5'): Pyramid Peak, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.3 source: HACH / Max. lake depth (m): 6.5 / Team members: DB, EK

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): Silt ___ < 2 mm ___ 2-32 mm ___ 32-64 mm ___ 64-256 mm ___ > 256 mm ___ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): Silt-64 mm ___ >64-256 mm ___ > 256 mm ___ grass/sedge/forb ___ woody debris ___ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N) describe locations on map

Amphibian observer(s): DB, EK	Survey start time: 1655 End time (hhmm): 1755	Total survey duration: (min) 50 min	Weather: (Clear) Overcast Rain Snow Wind: Calm Light (Strong)			
Stream only: Start East UTM / North UTM	End East UTM / North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy			
Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
PSRE Calling? Y (N) Voucher? Y (N) #			200+200			(Visual) Trapped Aural Hand Collected Dip Net/Seine
THEL Calling? Y (N) Voucher? Y (N) #	11 Subadult	Juveniles				(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #	1-40mm 0749076x 4304572	4-≈30mm 0749076x 4304572	1-≈62mm, GS 27; 10s 0749125x 4304560		0749123x 4304731	(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Tad. Calling? Y (N) Voucher? Y (N) #			1-≈70mm, GS 38-40; 10s 0749055 x4304581	5-GS-70mm GS-38-40 in middle of Pond		(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Tad Calling? Y (N) Voucher? Y (N) #		1-≈65mm Prolapsed intestine 749104x4304591	4-≈70mm, GS 38-40 mm 0749062 x 4304586	4-≈70mm, GS 38-40 @ end Point of net	749083 4304570	(Visual) Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 19 @ 1655 (C) or F			Air Temp. (1m above water): 21 @ 1655 (C) or F			

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 435: Pond facing SE; 436-facing NW; 437 - far D/s end of pond (grumpy)

1-Adult +1 SA! 749204x4304601
749198x4304606

Side pond South of A: 4- juv

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond B	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral) If not sampled, reason: stream widening frozen, dry, or not found part of another water body

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/s of Lake Aloha Saddle Dams

County: El Dorado	Elevation: m (ft) 8136	East UTM: 749129	North UTM: 4304515 (only for lakes w/o a site ID; obtain from GPS unit)

Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: source:	Max. lake depth (m): 1.5	Team members: DB, CS

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Width (cm) and depth (cm) of inlets (width/depth):	Width (cm) and depth (cm) of outlets (width/depth):
(1) ___/___ (2) ___/___ (3) ___/___ (4) ___/___ (5) ___/___ (6) ___/___ no inlets	(1) ___/___ (2) ___/___ (3) ___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	**Fish present in outlets?** (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**Distance to first barrier on outlets (m)** (1)____ (2)____ (3)____
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**Description of fish barriers on outlets:** (1)____ (2)____ (3)____
UTM coordinates for fish barriers on inlets: (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**UTM coordinates for fish barriers on outlets:** (1)____ (2)____ (3)____
Photo number(s) for fish barriers on inlets: (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**Photo number(s) for fish barriers on outlets:** (1)____ (2)____ (3)____
Area of suitable spawning habitat on inlets (m^2): (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**Area of suitable spawning habitat in outlets (m^2):** (1)____ (2)____ (3)____
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	**Evidence of spawning in outlets:** (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)____ (2)____ (3)____ (4)____ (5)____ (6)____	**Area of in-lake spawning habitat at outlets (m^2):** (1)____ (2)____ (3)____

Fairy shrimp Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? describe locations on map Collection made? Y (N)

Amphibian observer(s): DB, CS	Survey start time: 1555 End time (hhmm): 1620	Total survey duration: (min) 20	Weather: (Clear) Overcast Rain Snow Wind: Calm Light (Strong)
Stream only: **Start** East UTM ____ North UTM ____	**End** East UTM ____ North UTM ____	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y N Voucher? Y N #____		1-38mm, male 749141x4304517 1-38, female 749143x4304495	-Subadult -Subadult			(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y N Voucher? Y N #____		1-38mm 749145 4304493	-Subadult			Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 19.5 @ 1600 (C) or F — Air Temp. (1m above water): 23 @ 1600 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 472 - facing South; (grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond C	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake ~~Unmapped pond~~ Stream Marsh Spring seep : Perennial (Ephemeral)	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha saddle Dams	
County: El Dorado	Elevation: m (ft) 8138	East UTM: 749133	North UTM: 4304487 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: source: / Max. lake depth (m): 0.6 / Team members: DB, CS

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s): DB, CS	Survey start time: 1622	End time (hhmm): 1640	Total survey duration: (min) 15
Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)		
Stream only: Start East UTM / North UTM	End East UTM / North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI – Juvenile; Calling? Y (N); Voucher? Y (N) #		1-80mm 749128x4304485	– Juvenile			(Visual) Aural (Dip Net/Seine) Trapped Hand Collected
RASI – Adult; Calling? Y (N); Voucher? Y (N) #	1-48, male 749122x4304486; 1-≥50mm, Male 749121x4304478	1-60 mm 749130x4304470				(Visual) Aural (Dip Net/Seine) Trapped Hand Collected
Calling? Y N; Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N; Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N; Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 21 @ 1620 (C) or F

Air Temp. (1m above water): 23 @ 1620 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 473 & 474 - Pond facing South & west; (grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID:	Date: (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral	
Pond D	8/29/11	If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)	
		D/s of Lake Aloha Saddle Dams	
County:	Elevation: m (ft)	East UTM:	North UTM:
El Dorado	8107	10s 0749003 (only for lakes w/o a site ID; obtain from GPS unit)	4304854
Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.2 source: HACH / Max. lake depth (m): / Team members:
Pyramid Peak, CA			DB, EK

Person recording habitat information: DB

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s):	Survey start time:	Total survey duration:	Weather: (Clear) Overcast Rain Snow
DB, EK	1625	(min) 20	Wind: Calm Light (Strong)
	End time (hhmm): 1650		

Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained
					Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
BASI - Tadpole Calling? Y (N) Voucher? Y (N) #___		0749002x4304853	1-62mm, 65-36			(Visual) Trapped Aural Hand Collected (Dip Net/Seine
BASI Calling? Y N Voucher? Y N #___		1-27mm 0749045 x – 4304822	Juvenile			(Visual) Trapped (Aural) Hand Collected (Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 20 @ 1640 (C) or F

Air Temp. (1m above water): 20 @ 1640 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 433-Juve; 434 - Pond looking NW; (grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond E	Date: 8/29/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8107	East UTM: 748946	North UTM: 4304877 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather (Clear) Overcast Rain Snow	Wind: Calm (Light) (Strong)	pH: 6.2 source: HACH / Max. lake depth (m): ~1.5 / Team members: EK, DB

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

_____ Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

_____ Silt-64 mm _____ >64-256 mm _____ > 256 mm _____ grass/sedge/forb _____ woody debris _____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N) describe locations on map

Amphibian observer(s): DB, EK	Survey start time: 1550 End time (hhmm): 1620	Total survey duration: (min) 25 min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) (Strong)		
Stream only: C	Start East UTM: North UTM:	End East UTM: North UTM:	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy	

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #	0748981 x 4304881 Gosner 37-40	79mm	8			(Visual) Trapped Aural Hand Collected Dip Net/Seine
PSRE Calling? Y N Voucher? Y N #			10			(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #	1 - 72mm SVL Female	0748996 x 4304836				(Visual) Trapped Aural Hand Collected Dip Net/Seine
THEL Calling? Y (N) Voucher? Y (N) #		1				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 18 @ 1605 C or F — Air Temp. (1m above water): 20 @ 1605 C or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 425 - facing SE; 426-428: tadpole; 429-31 - Adult; 432 - facing NW (Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond F	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)
		D/S of Lake Aloha Saddle Dams

County:	Elevation:	East UTM:	North UTM:
El Dorado	m (ft) 8130	749147	4304451 (only for lakes w/o a site ID; obtain from GPS unit)

Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: source:	Max. lake depth (m): 0.5	Team members:
Pyramid Peak					DB, CS

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

____ Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s): DB, CS	Survey start time: 1655	Total survey duration:	Weather: (Clear) Overcast Rain Snow
	End time (hhmm): 1710	(min) 15	Wind: Calm Light (Strong)

Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained
					Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI - Adult (1) Calling? Y (N) Voucher? Y (N) #___ (1)	49 mm, Male 749148x4304449; 43 mm, Male 749148x4304455					(Visual) Aural (Dip Net/Seine) Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #___						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep):	24 @ 1655 (C) or F	Air Temp. (1m above water):	22 @ 1655 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 476 - Pond facing North (Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond G	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams			
County: El Dorado	Elevation: m (D) 8075	East UTM: 749117	North UTM: 4304462 (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 2.1	Team members: DB, CS

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

_____ Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

_____ Silt-64 mm _____ >64-256 mm _____ > 256 mm _____ grass/sedge/forb _____ woody debris _____ brush

Width (cm) and depth (cm) of inlets (width/depth):	Width (cm) and depth (cm) of outlets (width/depth):
(1) ___/___ (2) ___/___ (3) ___/___ (4) ___/___ (5) ___/___ (6) ___/___ no inlets	(1) ___/___ (2) ___/___ (3) ___/___ none
Fish present in inlets?	Fish present in outlets?
(1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	(1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m):	Distance to first barrier on outlets (m)
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade")	Description of fish barriers on outlets:
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____
UTM coordinates for fish barriers on inlets:	UTM coordinates for fish barriers on outlets:
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____
Photo number(s) for fish barriers on inlets:	Photo number(s) for fish barriers on outlets:
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____
Area of suitable spawning habitat on inlets (m^2):	Area of suitable spawning habitat in outlets (m^2):
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____
Evidence of spawning in inlets:	Evidence of spawning in outlets:
(1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None	(1) Spawning fish Redds Fry None
(2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None	(2) Spawning fish Redds Fry None
(3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	(3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2):	Area of in-lake spawning habitat at outlets (m^2):
(1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	(1)_____ (2)_____ (3)_____

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s): DB, CS	Survey start time: 1640	Total survey duration:	Weather: (Clear) Overcast Rain Snow
	End time (hhmm): 1655	(min) 15	Wind: Calm Light (Strong)

Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #___	1-52 Male 749117x4304462					(Visual) Trapped Aural Hand Collected (Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep):	19 @ 1645 (C) or F	Air Temp. (1m above water):	22 @ 1645 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 475-Pond facing SE;
(Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond H	Date: 8/31/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8104	East UTM: 749074 (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4304451
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH / Max. lake depth (m): 1.5 / Team members: DB, CS, LT

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp	Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N)	describe locations on map

No RASI at H

Amphibian observer(s): DB, LT, CS	Survey start time: 0920 End time (hhmm): 0950	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow Wind: Calm Light (Strong)
Stream only: Start East UTM ____ North UTM ____	End East UTM ____ North UTM ____	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y N Voucher? Y N #___		1-42mm, female 749097x4304382 1-41 mm, female 749097x4304379	- Subadult - Subadult			(Visual) Trapped Aural Hand Collected (Dip Net/Seine)
RASI Calling? Y N Voucher? Y N #___		1-≈53 mm, UNK 749128x4304320 1-45-50 mm, UNK 749122x4304313	- Adult - Adult			Visual Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y N Voucher? Y N #___		1-30mm 749066 4304445	- Juvenile			Visual Trapped Aural Hand Collected Dip Net/Seine
Frogs at Pond West of H Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 15 @ 0925 C or F		Air Temp. (1m above water): 16 @ 0925 C or F				

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 479 - pond facing SE; 480 - Pond facing SW; 481 - pond facing NW; (Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond I	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language) D/S of Lake Aloha Saddle Dams				
County: El Dorado	Elevation: m (ft) 8060	East UTM: 0749024	North UTM: 4304567 (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.4 source: HACH	Max. lake depth (m): 6.4	Team members: DB, EK	

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): Silt ___ < 2 mm ___ 2-32 mm ___ 32-64 mm ___ 64-256 mm ___ > 256 mm ___ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): ___ Silt-64 mm ___ >64-256 mm ___ > 256 mm ___ grass/sedge/forb ___ woody debris ___ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s): DB, EK	Survey start time: 0920	End time (hhmm): 0955	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong
Stream only: Start East UTM ___ North UTM ___	End East UTM ___ North UTM ___		Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #___		1-40mm; 748997x 4304600	SA			(Visual) Trapped Aural Hand Collected (Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #___	SA→	1-~36 mm; 749008 x 4304553	Incidental A→I		Incidental I→J	(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Sub ad. Calling? Y (N) Voucher? Y (N) #___	JUV→	1-~32 mm; 749031x 4304533	1-38 mm 749042 x 4304571	1-38 mm 749026x 4304567	1-39mm 748988x 4304551	(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___			SA	SA	SA	Visual Trapped Aural Hand Collected Dip Net/Seine
TH EL Calling? Y N Voucher? Y N #___		1				Visual Trapped Aural (Hand Collected) Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 16 @ 0930 (C) or F	Air Temp. (1m above water): 17 @ 0930 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 438- trib flowing from A to I; 439- lotus; 440- Pond facing West; 441 - facing E; (Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond J	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8	East UTM: 0748987	North UTM: 4304552 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source: / Max. lake depth (m): 6.4 / Team members: DB, EK

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): _____ Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): _____ Silt-64 mm _____ >64-256 mm _____ > 256 mm _____ grass/sedge/forb _____ woody debris _____ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp: Present in lake? (Y) N; Collection made? Y (N)	In lake-associated pools? Y (N); Collection made? Y (N)	Other locations? Collection made? Y (N)	describe locations on map

Amphibian observer(s): DB, EK	Survey start time: 1005; End time (hhmm): 1145	Total survey duration: (min) 80	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong
Stream only: Start East UTM / North UTM	End East UTM / North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	~~# egg masses~~	diseased/checked	Survey Method
RASI - Tadpole Calling? Y (N) Voucher? Y (N) #			1-≥70mm, G5-40 748955x4304551 1-≥70mm, G5-40 748982x4304523	3-≥70, G5-40-41 748810x4304451 1-≥78mm, G5-42 748761x4304511	1-≥75mm, G5-41 748971x4304522	(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI - Metamorph Calling? Y (N) Voucher? Y (N) #			1-Metamorph 69mm w/tail, 748937 x 4304583			Visual Trapped Aural Hand Collected (Dip Net)/Seine
RASI - Juvenile Calling? Y (N) Voucher? Y (N) #		1-≥30mm 748933x4304590	1-≥30mm 748980x 4304541			Visual Trapped Aural Hand Collected Dip Net/Seine
THEL Calling? Y N Voucher? Y N #	1	1				Visual Trapped Aural Hand Collected Dip Net/Seine
PSRE Calling? Y (N) Voucher? Y (N) #			11			Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 15°C @ 1000 (C) or F — Air Temp. (1m above water): 18 @ 1000 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 442 - Pond facing W; 443 & 444 - Metamorph; 445 - pond facing W; 447 - outflow of Pond; (Grumpy) 448 & 449 - Pond facing N & E from outflow; 450 - last tadpole

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond K	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)
		D/s of Lake Aloha Saddle Dams

County:	Elevation:	East UTM:	North UTM:
El Dorado	m (ft) 8089	748884	4304608 (only for lakes w/o a site ID; obtain from GPS unit)

Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.4 source: HACH	Max. lake depth (m): 0.6	Team members:
Pyramid Peak					DB EK

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Width (cm) and depth (cm) of inlets (width/depth):	Width (cm) and depth (cm) of outlets (width/depth):
(1) / (2) / (3) / (4) / (5) / (6) / no inlets	(1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N)	describe locations on map

Amphibian observer(s): DB, EK	Survey start time: 1030 End time (hhmm): 1045	Total survey duration: (min) 15	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
PSRE Calling? Y (N) Voucher? Y (N) #			30			(Visual) Trapped Aural Hand Collected Dip Net/Seine
THEL Calling? Y (N) Voucher? Y (N) #		1				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep):	16 @ 1045 (C) or F	Air Temp. (1m above water):	19 @ 1040 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 446 - facing NW
(grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond L	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8132	East UTM: 749066	North UTM: 4304889 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.2 source: HACH; Max. lake depth (m): 0.6; Team members: DB, CS

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): Silt ___ < 2 mm ___ 2-32 mm ___ 32-64 mm ___ 64-256 mm ___ > 256 mm ___ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): Silt-64 mm ___ >64-256 mm ___ > 256 mm ___ grass/sedge/forb ___ woody debris ___ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N) describe locations on map

Amphibian observer(s): DB, CS	Survey start time: 1433 End time (hhmm): 1453	Total survey duration: (min) 18 min	Weather: (Clear) Overcast Rain Snow; Wind: Calm (Light) Strong			
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy	
Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
PSRE Calling? Y (N) Voucher? Y (N) #			30 + 500			(Visual) Aural Dip Net/Seine Trapped Hand Collected
THEL Calling? Y (N) Voucher? Y (N) #		HIT 1				(Visual) Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Water Temp. (.5m from shore, 10cm deep): 22.5 @ 1435 (C) or F			Air Temp. (1m above water): 21 @ 1435 (C) or F			

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 457 - facing South; 458 - North;
(Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond M	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral) If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams			
County: El Dorado	Elevation: m (ft) 8135	East UTM: 0749005	North UTM: 4304888 (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 0.75	Team members: DB, CS

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

_____ Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

_____ Silt-64 mm _____ >64-256 mm _____ > 256 mm _____ grass/sedge/forb _____ woody debris _____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	Distance to first barrier on outlets (m) (1)_____ (2)_____ (3)_____
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	Description of fish barriers on outlets: (1)_____ (2)_____ (3)_____
UTM coordinates for fish barriers on inlets: (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	UTM coordinates for fish barriers on outlets: (1)_____ (2)_____ (3)_____
Photo number(s) for fish barriers on inlets: (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	Photo number(s) for fish barriers on outlets: (1)_____ (2)_____ (3)_____
Area of suitable spawning habitat on inlets (m^2): (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	Area of suitable spawning habitat in outlets (m^2): (1)_____ (2)_____ (3)_____
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)_____ (2)_____ (3)_____ (4)_____ (5)_____ (6)_____	Area of in-lake spawning habitat at outlets (m^2): (1)_____ (2)_____ (3)_____

Fairy shrimp	In lake-associated pools?	Other locations?
Present in lake? Y (N) Collection made? Y (N)	Y (N) Collection made? Y N	describe locations on map Collection made? Y (N)

Amphibian observer(s): DB, CS	Survey start time: 1325 End time (hhmm): 1350	Total survey duration: (min) 20	Weather: (Clear) Overcast Rain Snow Wind: Calm Light Strong
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: Clear (Stained) — Tannin Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #___	1-Male, ≥50mm, 749005x 4304888					(Visual) Trapped Aural Hand Collected (Dip Net/Seine)
RASI Calling? Y N Voucher? Y N #___	1-Female, ≥50mm 748995x 4304901					(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 15.5 @ 1340 (C) or F

Air Temp. (1m above water): 20 @ 1330 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 451 - Pond facing SE; (grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond N	Date: 08/31/2011 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Pond N @ (from map) Lake Aloha	Planning Watershed: (from "Lakes Checklist")	Location (use common language) D/s of Lake Aloha Saddle Dams			
County: El Dorado	Elevation: m (ft) 8120	East UTM: 0749010 (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4304720		
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6,4 source: HACH	Max. lake depth (m): 65 cm	Team members: BZ, EK, ES

Person recording habitat information: ES

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm _____ >64-256 mm 80 > 256 mm 15 grass/sedge/forb _____ woody debris 5 brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	In lake-associated pools?	Other locations?
Present in lake? Y (N)	Y (N)	describe locations
Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N) on map

Amphibian observer(s): BZ, EK, ES	Survey start time: 0950 End time (hhmm): 1010	Total survey duration: (min) 15	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong	
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RAMU Calling? Y (N) Voucher? Y (N) #	1* 0749010 4304749	1** 0749024 4304720				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 11.9 @ (C) or F

Air Temp. (1m above water): 17.5 @ (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

1* 60 mm adult in shallow tail out of pond - silt & fines

** ≥40 mm subadult in bedrock crack, S edge of pond, @ waters edge, fines in substrate

*photos 393-396 sweezy

Photo 572 breezy

S50 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond 0	Date: (mmm-dd-yy) 8/31/11	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map) Pond 0 Lake Aloha	Planning Watershed: (from "Lakes Checklist")	Location (use common language) D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8115	East UTM: 749049	North UTM: 4304734 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong SW	pH: source:
Max. lake depth (m): 65 cm	Team members: BZ, EK, ES		

Person recording habitat information: E. St Hill

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):
Silt ___ < 2 mm ___ 2-32 mm ___ 32-64 mm ___ 64-256 mm ___ > 256 mm ___ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):
5 Silt-64 mm ___ >64-256 mm most > 256 mm 15 grass/sedge/forb 5 woody debris 5 brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y (N) ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp: Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N)	describe locations on map

Amphibian observer(s): BZ, EK, ES

Survey start time: 0920 End time (hhmm): 8448

Total survey duration: (min) 15 min

Weather: (Clear) Overcast Rain Snow

Wind: Calm (Light) Strong

Stream only: Start East UTM ___ North UTM ___ End East UTM ___ North UTM ___ Stream order: ___

Color: Clear Stained

Turbidity: Clear Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RAMU Calling? Y (N) Voucher? Y (N) # ___	1* 0749049 x4304734	1**				(Visual) Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N # ___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N # ___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N # ___						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N # ___						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 11.9 @ (C) or F

Air Temp. (1m above water): 17.5 @ (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

* <8mm - IN Shallow water - 30 cm swam into deeper H_2O, silt w/minimal grasses substrate. Silt & fines w/ boulder, bedrock, cobble - low, 0 canopy, some undercut rocks

** 35 mm ~~metamorph~~ @ Nearby puddle under rock ledge between N & O

Utm = 0749031 x 4304722

Subadult

N, O, Q, S (R) Meet @

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond P	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8141	East UTM: 749196 (only for lakes w/o a site ID; obtain from GPS unit)	North UTM: 4304725
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH / Max. lake depth (m): 0.6 / Team members: DB, CS

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None; (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None; (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None; (2) Spawning fish Redds Fry None; (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N)	describe locations on map

Amphibian observer(s): DB, CS	Survey start time: 1510 End time (hhmm): 1545	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow; Wind: Calm Light (Strong)			
Stream only: Start East UTM / North UTM	End East UTM / North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy			
Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI - Juvenile; Calling? Y (N); Voucher? Y (N) #		(1) ~30mm 749200x4304723; (1) 30 mm 749204x4304716				(Visual) Aural Dip Net/Seine Trapped Hand Collected
RASI - Sub adult; Calling? Y N; Voucher? Y N #	44mm female 749208x4304715 - SA; 41 mm, female 749224x4304717 - SA					Visual Aural Dip Net/Seine Trapped Hand Collected
RASI - Adult; Calling? Y N; Voucher? Y N #	48mm, female 749218x4304726					Visual Aural Dip Net/Seine Trapped Hand Collected
THEL; Calling? Y N; Voucher? Y N #	1 - eating tadpole (PSSI)					Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N; Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Water Temp. (.5m from shore, 10cm deep): 24 @ 1510 (C) or F			Air Temp. (1m above water): 23 @ 1510 (C) or F			

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THSI) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 459 - outlet of P flowing into A; 460 - Pond facing East; 461 & 62 - 2nd juv.; (grumpy) 463 - 468 - frog Photos;

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond Q	Date: 08/31/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map) Pond Q @ Lake Aloha	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8100	East UTM: 748852	North UTM: 4304585 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: (Calm) Light Strong	pH: 6.4 source: HACH; Max. lake depth (m): 75; Team members: BZ, EK, ES

Person recording habitat information: ES

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1)___/___ (2)___/___ (3)___/___ (4)___/___ (5)___/___ (6)___/___ no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1)___/___ (2)___/___ (3)___/___ none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Distance to first barrier on outlets (m) (1)___ (2)___ (3)___
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Description of fish barriers on outlets: (1)___ (2)___ (3)___
UTM coordinates for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	UTM coordinates for fish barriers on outlets: (1)___ (2)___ (3)___
Photo number(s) for fish barriers on inlets: (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Photo number(s) for fish barriers on outlets: (1)___ (2)___ (3)___
Area of suitable spawning habitat on inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of suitable spawning habitat in outlets (m^2): (1)___ (2)___ (3)___
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1)___ (2)___ (3)___ (4)___ (5)___ (6)___	Area of in-lake spawning habitat at outlets (m^2): (1)___ (2)___ (3)___

Fairy shrimp: Present in lake? (Y) N; Collection made? Y (N)	In lake-associated pools? Y (N); Collection made? Y (N)	Other locations? Streptocephalus 10's-100's Collection made? Y (N) Large	describe locations on map deeper H2O in pond Q

Amphibian observer(s): BZ, EK, ES	Survey start time: 1015; End time (hhmm): 1040	Total survey duration (min): 15 min	Weather: (Clear) Overcast Rain Snow; Wind: (Calm) Light Strong			
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: Clear Stained; Turbidity: Clear Cloudy	

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
Calling? Y N Voucher? Y N #	NO Amphibians Observed					Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 14.8 @ (C) or F

Air Temp. (1m above water): 18.0 @ (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos 397-396 ~~reverse~~

Ponds below Lake Aloha

SNYLF Amphibian Data Sheet - 2009

Site ID: Pond R	Date: 8/31/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep; Perennial (Ephemeral)				
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: 550 LP (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Pond Below Lake Aloha				
County: El Dorado	Elevation: m (ft) 8092	East UTM: 748938	North UTM: 4304438 (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Pyramid Peak, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 1.0	Team members: Lauren Mulloy & (CDFG) DB, LT, ES Brian Deason (EID)	
Amphibian observer(s): DB, LT, ES, LM, BD	Survey start time: 1110 End time (hhmm): 1120	Total survey duration: (min) 10	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)		
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: (Clear) Stained	Turbidity: (Clear) Cloudy		

Amphibian/reptile species	# adults	#~~subadults~~	# larvae	# egg masses	Comments	Survey Method
PSSI Calling? Y (N) Voucher? Y (N) #___		Juvenile	25			(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #___		1-~30mm 748926 x 4304442				(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 15.5 @ 1115 (C) or F				Air Temp. (1m above water): 18.0 @ 1115 (C) or F		

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 489- pond- facing NW
(Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond 5	Date: (mmm-dd-yy) 8/31/11	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial Ephemeral			
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: Pond 5 (from map) @ Aloha Lake	Planning Watershed: (from "Lakes Checklist")	Location (use common language) D/s of Lake Aloha Saddle Dams			
County: El Dorado	Elevation: m (ft) 8075	East UTM: 748882	North UTM: 4304438 (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.4 source: HACH	Max. lake depth (m): 2 m	Team members: BZ, EK, ES, DB, LT

Person recording habitat information: ES

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y N Collection made? Y N	Other locations? Collection made? Y N describe locations on map

Amphibian observer(s): ES, DB, LT	Survey start time: 1050 End time (hhmm): 1105	Total survey duration: (min) 10 min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong		
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
Calling? Y N Voucher? Y N #	No Amphibians Observed					Visual Trapped Aural Hand Collected Dip Net/Seine
RAMU Calling? Y (N) Voucher? Y (N) #	1* 748929 X4304423					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 16.2 @ C or F

Air Temp. (1m above water): 18.2 @ C or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

* Adult female 56mm in H2O 20 cm deep - silt & fines, detritus, undercut bank w/in 0.5m

Photos 406-407 sneezy

Photos - Grumpy photos 485-486

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond T	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)	If not sampled, reason: stream widening frozen, dry, or not found part of another water body
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/S of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8133	East UTM: 749036	North UTM: 4304930 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH / Max. lake depth (m): 0.6 / Team members: CS, DB

Person recording habitat information:	Substrate transects with aquatic vegetation:
Littoral zone substrate composition (3m; ~50 total): Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock	
Shoreline terrestrial substrate composition (1.5m; ~50 total): ____ Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush	
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp: Present in lake? (Y) N; Collection made? Y (N)	In lake-associated pools? Y (N); Collection made? Y (N)	Other locations? Streptocephalus sealii describe locations; Collection made? Y (N) 10's on map

Amphibian observer(s): DB, CS	Survey start time: 1420; End time (hhmm): 1430	Total survey duration: (min) 10	Weather: (Clear) Overcast Rain Snow; Wind: Calm Light (Strong)
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
PSRE Calling? Y (N) Voucher? Y (N) #____			10+20+10			(Visual) Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #____	No RASI observed					Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #____						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #____						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #____						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep):	9.0 @ 1420	(C) or F	Air Temp. (1m above water): 21 @ 1420 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 456 - Pond facing NW
(grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond U	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial (Ephemeral)
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)
		D/S of Lake Aloha Saddle Dams

County:	Elevation:	East UTM:	North UTM:
El Dorado	m (ft) 8141	749020	4304845

(only for lakes w/o a site ID; obtain from GPS unit)

Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 0.9	Team members:
Pyramid Peak					DB, CS

Person recording habitat information:	Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

Width (cm) and depth (cm) of inlets (width/depth):	Width (cm) and depth (cm) of outlets (width/depth):
(1) / (2) / (3) / (4) / (5) / (6) / no inlets	(1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp	Present in lake? (Y) N Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Streptocephalus sealii 10's Collection made? Y (N) describe locations on map

Amphibian observer(s): DB, CS	Survey start time: 1355 End time (hhmm): 1418	Total survey duration: (min) 15	Weather: (Clear) Overcast Rain Snow Wind: Calm Light (Strong)
Stream only: Start East UTM North UTM	End East UTM North UTM	Stream order:	Color: Clear (Stained) Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #___		(2) 39mm+40mm male + Female 749027 x 4304948	SA			(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #___		1-40mm 749019 x 4304959	SA			(Visual) Trapped Aural Hand Collected Dip Net/Seine
		1-38mm 749034 x 4304918	SA			
RASI Calling? Y (N) Voucher? Y (N) #___		1-44mm, Female 749035 x 4304923	SA			(Visual) Trapped Aural Hand Collected Dip Net/Seine
		1-40mm 749031 x 4304931	SA			
PSRE Calling? Y (N) Voucher? Y (N) #___			10			(Visual) Trapped Aural Hand Collected Dip Net/Seine
THEL Calling? Y (N) Voucher? Y (N) #___		1				(Visual) Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep):	18.5 @ 1355 (C) or F	Air Temp. (1m above water):	21 @ 1355 C or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 452 - Pond facing SE; 453-455 - 44 mm female; (grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond V	Date: 8/31/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body	
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): D/s of Lake Aloha Saddle Dams	
County: El Dorado	Elevation: m (ft) 8084	East UTM: 749064	North UTM: 4304365 (only for lakes w/o a site ID; obtain from GPS unit)
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: 6.2-6.4 source: HACH; Max. lake depth (m): ; Team members: DB, LT, CS

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

_____ Silt _____ < 2 mm _____ 2-32 mm _____ 32-64 mm _____ 64-256 mm _____ > 256 mm _____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

_____ Silt-64 mm _____ >64-256 mm _____ > 256 mm _____ grass/sedge/forb _____ woody debris _____ brush

Inlets	Outlets
Width (cm) and depth (cm) of inlets (width/depth): (1) / (2) / (3) / (4) / (5) / (6) / no inlets	Width (cm) and depth (cm) of outlets (width/depth): (1) / (2) / (3) / none
Fish present in inlets? (1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	Fish present in outlets? (1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets (m): (1) (2) (3) (4) (5) (6)	Distance to first barrier on outlets (m) (1) (2) (3)
Description of fish barriers on inlets: (e.g. "2 m falls", or "10 m cascade") (1) (2) (3) (4) (5) (6)	Description of fish barriers on outlets: (1) (2) (3)
UTM coordinates for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	UTM coordinates for fish barriers on outlets: (1) (2) (3)
Photo number(s) for fish barriers on inlets: (1) (2) (3) (4) (5) (6)	Photo number(s) for fish barriers on outlets: (1) (2) (3)
Area of suitable spawning habitat on inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of suitable spawning habitat in outlets (m^2): (1) (2) (3)
Evidence of spawning in inlets: (1) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	Evidence of spawning in outlets: (1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets (m^2): (1) (2) (3) (4) (5) (6)	Area of in-lake spawning habitat at outlets (m^2): (1) (2) (3)

Fairy shrimp Present in lake? Y (N) Collection made? Y (N)	In lake-associated pools? Y (N) Collection made? Y (N)	Other locations? Collection made? Y (N) describe locations on map

Amphibian observer(s): CS, LT, DB

Survey start time: 1020 End time (hhmm): 1040

Total survey duration: (min) 20

Weather: (Clear) Overcast Rain Snow

Wind: Calm (Light) Strong

Stream only: Start East UTM North UTM | End East UTM North UTM | Stream order:

Color: (Clear) Stained

Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
Calling? Y N Voucher? Y N #	No amphibians observed					(Visual) Aural (Dip Net/Seine) Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected
Calling? Y N Voucher? Y N #						Visual Aural Dip Net/Seine Trapped Hand Collected

Water Temp. (.5m from shore, 10cm deep): 16.5 @ 1025 (C) or F

Air Temp. (1m above water): 17 @ 1025 (C) or F

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 482 - pond facing North; 483 pond facing South (Grumpy)

550 LP

Amphibian and Fish Inventory Data Sheet - 2001

Site ID: Pond W	Date: 8/30/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep : Perennial Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body		
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): O/S of Lake Aloha Saddle Dams		
County: El Dorado	Elevation: m (ft) 8114	East UTM: 749028	North UTM: 4304484 (only for lakes w/o a site ID; obtain from GPS unit)	
Topographic Map (7.5'): Pyramid Peak	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 1.2
Team members: CS, DB				

Person recording habitat information:

Substrate transects with aquatic vegetation:

Littoral zone substrate composition (3m; ~50 total):

Silt ____ < 2 mm ____ 2-32 mm ____ 32-64 mm ____ 64-256 mm ____ > 256 mm ____ bedrock

Shoreline terrestrial substrate composition (1.5m; ~50 total):

Silt-64 mm ____ >64-256 mm ____ > 256 mm ____ grass/sedge/forb ____ woody debris ____ brush

	Inlets	Outlets
Width (cm) and depth (cm) of inlets/outlets (width/depth)	(1)__/__ (2)__/__ (3)__/__ (4)__/__ (5)__/__ (6)__/__ no inlets	(1)__/__ (2)__/__ (3)__/__ none
Fish present in inlets/outlets?	(1) Y N ? (2) Y N ? (3) Y N ? (4) Y N ? (5) Y N ? (6) Y N ?	(1) Y N ? (2) Y N ? (3) Y N ?
Distance to first barrier on inlets/outlets (m)	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__
Description of fish barriers on inlets/outlets: (e.g. "2 m falls", or "10 m cascade")	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__
UTM coordinates for fish barriers on inlets/outlets:	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__
Photo number(s) for fish barriers on inlets/outlets:	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__
Area of suitable spawning habitat on inlets/outlets (m^2):	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__
Evidence of spawning in inlets/outlets:	(1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None (4) Spawning fish Redds Fry None (5) Spawning fish Redds Fry None (6) Spawning fish Redds Fry None	(1) Spawning fish Redds Fry None (2) Spawning fish Redds Fry None (3) Spawning fish Redds Fry None
Area of in-lake spawning habitat at inlets/outlets (m^2):	(1)__ (2)__ (3)__ (4)__ (5)__ (6)__	(1)__ (2)__ (3)__

Fairy shrimp	Present in lake? Y (N)	In lake-associated pools? Y (N)	Other locations? describe locations on map
	Collection made? Y (N)	Collection made? Y (N)	Collection made? Y (N)

Amphibian observer(s): CS, DB	Survey start time: 1715 End time (hhmm): 1735	Total survey duration: (min) 20	Weather: (Clear) Overcast Rain Snow Wind: Calm Light (Strong)
Stream only: Start East UTM / North UTM	End East UTM / North UTM	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	diseased/checked	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #____		1-36mm, female? 718998x4304183	SA			(Visual) Trapped Aural Hand Collected (Dip Net/Seine
		1-38mm, female? 718991x4304488	SA			
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #____						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep): 15 @ 21 (C) or F				Air Temp. (1m above water): 23 @ 1715 (C) or F		

amphibians: mountain yellow-legged frog (RAMU) Pacific tree frog (HYRE) Yosemite toad (BUCA) CA newt (TATO) bullfrog (RACA) Long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 476 & 478 - pond facing North & East
(Grumpy)

Ponds Below Lake Aloha

SNYLF Amphibian Data Sheet - 2009

Site ID: Pond X	Date: 8/31/11 (mmm-dd-yy)	Water type: Lake (Unmapped pond) Stream Marsh Spring seep	(Perennial) Ephemeral			
		If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Below Lake Aloha Saddle Dams				
County: El Dorado	Elevation: m (ft) 8071	East UTM: 748970	North UTM: 4304418 (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Pyramid Peak, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm Light (Strong)	pH: 6.4 source: HACH	Max. lake depth (m): 1.75m	Team members: LT, DB, EK, BZ	
Amphibian observer(s): DB, LT, EK, BZ	Survey start time: 1045 End time (hhmm): 1105	Total survey duration: (min) 15	Weather: (Clear) Overcast Rain Snow; Wind: Calm Light (Strong)			
Stream only: Start East UTM	North UTM	End East UTM	North UTM	Stream order:	Color: (Clear) Stained; Turbidity: (Clear) Cloudy	

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
RASI Calling? Y (N) Voucher? Y (N) #___			1-65mm 748965 x 4304422			(Visual) Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 14.0 @ 1050 (C) or F	Air Temp. (1m above water): 18.0 @ 1050 (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 484- facing East
(Grumpy)

SNYLF Amphibian Data Sheet - 2009

Site ID: 455LP	Date: 8/22/2011 (mmm-dd-yy)	Water type: (Lake) Unmapped pond Stream Marsh Spring seep; (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body			
Lake Name: (from map) Upper Echo Lake	Planning Watershed: (from "Lakes Checklist")	Location (use common language) Upper Echo Lake - in vicinity of Camp Harvey			
County: El Dorado	Elevation: (m) ft 2273	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)		
Topographic Map (7.5'): Echo Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m): ~140'	Team members: ES, DB
Amphibian observer(s): ES, DB	Survey start time: 0925 End time (hhmm): 1000	Total survey duration: (min) 30	Weather: (Clear) Overcast Rain Snow Wind: (Calm) Light Strong		
~~Datum:~~ **Start** East UTM only: 10s 753539	North UTM 4303797	**End** East UTM 753414	North UTM 4303569	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
Calling? Y N Voucher? Y N #	No Amphibians observed.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	Abundant Fish Water clarity is very good.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #	Small areas of potential tadpole habitat.					Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 15.5 @ (C) or F

Air Temp. (1m above water): 16.5 @ (C) or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)

reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)

fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

84-90 on DOC. Photos: 1 - facing SW @ start; 2+3 facing NE+SW; 4+5 = 11; 6+7 - end facing toward dock;

Field Review: PB

SNYLF Amphibian Data Sheet - 2009

Site ID: 752IT	Date: 8/25/11 (mmm-dd-yy)	Water type: Lake Unmapped pond (Stream) Marsh Spring seep; (Perennial) Ephemeral If not sampled, reason: stream widening frozen, dry, or not found part of another water body				
Lake Name: Silver Lake (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language): Unnamed Tributary To Silver Lake				
County: Amador Co.	Elevation: m (ft) 7286	East UTM:	North UTM: (only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'): Caples Lake, CA	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. ~~lake~~ stream depth (m): 1.75	Team members: DB, CS	
Amphibian observer(s): CS, DB	Survey start time: 1050 End time (hhmm): 1330	Total survey duration: (min) 130	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong			
Stream only: Start East UTM 10s 0751323	North UTM 4282879	End East UTM 10s 751830	North UTM 4282264	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy	

WP 18

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
THEL Calling? Y (N) Voucher? Y (N) #___	1	1			75-76mm	(Visual) Trapped Aural Hand Collected Dip Net/Seine
RASI Calling? Y (N) Voucher? Y (N) #___	1 (F) @1305				~~1~~ 3cm SVL, Appeared healthy protruding object.	(Visual) Trapped Aural Hand Collected (Dip Net/Seine)
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___	Potential sighting of 2 Returned to verify sighting	RASI at cascade @ 75 but were unable to			10S x 4282423. find frogs.	Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Water Temp. (.5m from shore, 10cm deep):	13.0 @ 1050 (C) or F		Air Temp. (1m above water):	20.5 @ 1050 (C) or F		

10s 751727 x 4282312

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA)
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 920 - 946

Fingerling trout in bottom section

Field Review: DB

Emigrant Creek

SNYLF Amphibian Data Sheet - 2009

Site ID:	Date:	Water type: Lake Unmapped pond (Stream) Marsh Spring seep (Perennial) Ephemeral
8971 T	(mmm-dd-yy) 8/23/11	If not sampled, reason: stream widening frozen, dry, or not found part of another water body

Lake Name: (from map)	Planning Watershed: (from "Lakes Checklist")	Location (use common language)

County:	Elevation:	East UTM:	North UTM:		
Alpine Co.	m (ft) 7825 to	(only for lakes w/o a site ID; obtain from GPS unit)			
Topographic Map (7.5'):	Weather: (Clear) Overcast Rain Snow	Wind: Calm (Light) Strong	pH: source:	Max. lake depth (m):	Team members:
Caples Lake, CA					ES, DB

Amphibian observer(s): ES, DB	Survey start time: 1215 End time (hhmm): 1340	Total survey duration: (min) 70 min	Weather: (Clear) Overcast Rain Snow Wind: Calm (Light) Strong

Stream only:	Start East UTM	North UTM	End East UTM	North UTM (split)	Stream order:	Color: (Clear) Stained Turbidity: (Clear) Cloudy
	757722	4285853	757730	4285604		

Amphibian/reptile species	# adults	# subadults	# larvae	# egg masses	Comments	Survey Method
THEL Calling? Y (N) Voucher? Y N #___		1				Visual Trapped Aural (Hand Collected) Dip Net/Seine
Calling? Y N Voucher? Y N #___		- No fish observed in upper portion - No amphibians observed. - Upper portion is subsurface flow ~70% of the time				Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___		- Survey ended at 0.6 mi. due to no habitat, no water				Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine
Calling? Y N Voucher? Y N #___						Visual Trapped Aural Hand Collected Dip Net/Seine

Water Temp. (.5m from shore, 10cm deep): 9 @ 1210 C or F	Air Temp. (1m above water): 22 @ 1210 C or F

amphibians: Sierra Nevada yellow-legged frog (RASI), Sierran treefrog (PSSI), CA newt (TATO), bullfrog (LICA), long-toed salamander (AMMA)
reptiles: W. aquatic garter snake (THCO) W. terrestrial garter snake (THEL) common garter snake (THSI) W. pond turtle (CLMA) 19°C - end
fish: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT)

Photos: 850 + 51 - u/s + d/s @ start;
854 - u/s at Emigrant at split.
855 - u/s @ large unnamed trib
856 - D/s @ emigrant
57 - 61 - small channel
62 + 63 - u/s + d/s @ end 757530 x 4284974

Field Review: RB