

State of California
Department of Fish and Wildlife

Memorandum

Date: July 17, 2026

To: Leslie Alber
Senior Environmental Scientist; Supervisor
Department of Fish and Wildlife
North Central Region

Cc: CDFW North Central Region Fish Files

From: Mitch Lockhart, Environmental Scientist
Lantz Virgen, Scientific Aide
Department of Fish and Wildlife
North Central Region

Subject: Pre-Stocking Evaluation at Angora Lakes, El Dorado County

Upper and Lower Angora Lakes are located in the Lake Tahoe Basin near South Lake Tahoe, El Dorado County, California (**Figure 1**). The two natural lakes are situated at approximately 2,270 m (7,450 ft) elevation within mixed conifer forest on the eastern slope of the Sierra Nevada. Upper Angora Lake has a surface area of 5.7 ha (14.1 acres) and an estimated maximum depth of 6.2 m. While Lower Angora Lake has a surface area of 3.4 ha (8.4 ac) and a maximum depth of 6.4 m. Together, the lakes support a popular recreation destination for hikers and families. Access is limited to a one mile hiking trail from the Angora Lakes trailhead. Motorized access is not available to the public. Angora Lakes Resort owns and

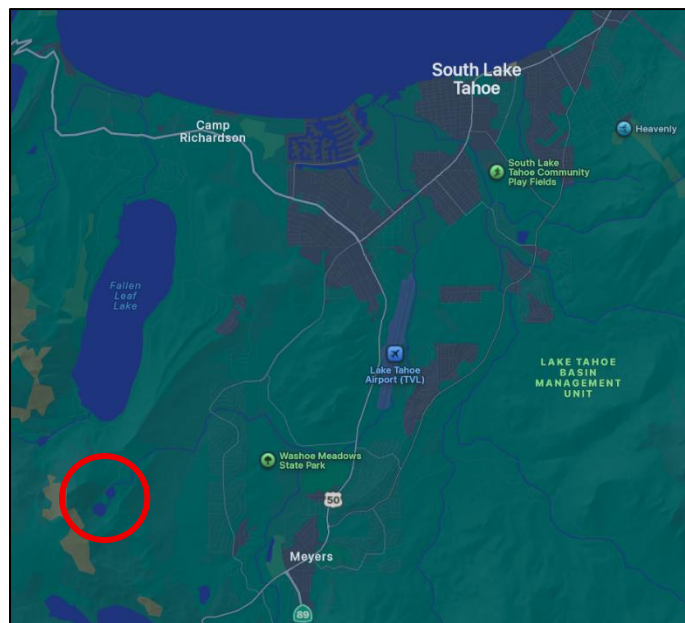


Figure 1. Map of the location of Angora Lakes (Red Circle) in relation to South Lake Tahoe and Meyers (Apple Maps; retrieved 7.17.26).

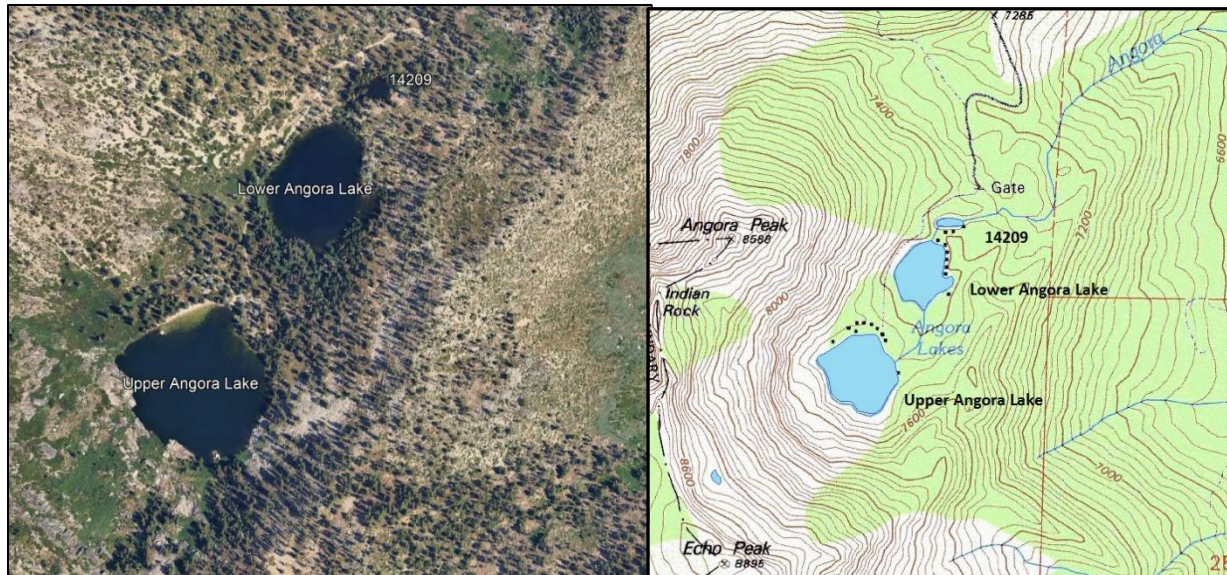


Figure 2: Overview satellite image and topographic map of the Angora Lakes basin. Included in the overview are Upper Angora Lake, Lower Angora Lake, and an unnamed pond (LakeID 14209) (Google Earth; retrieved 7-3-2026).

operates private cabins along the lakeshore and provides seasonal boat rentals and food service to visitors (**Figure 2**).

CDFW first stocked Brook Trout (*Salvelinus fontinalis*) in the Angora Lakes basin in 1931 to establish a recreational fishery. In a landmark 1935 experiment, marked Eastern Brook Trout were planted in Upper Angora Lake to study the survival of hatchery-raised trout populations (Needham 1941). CDFW stocked Brook Trout periodically in both Upper and Lower Angora Lakes for several decades, with documented stockings continuing through 2009 in Lower Angora Lake (**Table 1**). More recently, CDFW has stocked Lahontan Cutthroat Trout (*Oncorhynchus clarkii henshawi*; LCT) in Upper and Lower Angora Lakes to support native trout restoration and recreational angling opportunities (**Table 1**).

To help determine if Angora Lakes remains suitable to manage as a fishery stocked with hatchery LCT, Lantz Virgen, a CDFW Scientific Aide, conducted visual encounter surveys (VES) of the Angora Lakes for special status herpetofauna, adult LCT, and other fishes. CDFW uses this information to determine if planting Angora Lakes with fingerling LCT would result in deleterious impacts to other species; specifically, the Sierra Nevada Yellow-legged Frog (*Rana sierrae*). Lantz surveyed Lower Angora Lake, the unnamed pond (LakeID 14209), and its tributaries on June 16, 2026. While he surveyed Upper Angora Lake on July 2, 2026 (**Figures 2,3, & 4**).

Lantz began the June 16, 2026, survey at 10:33 AM and continued until 13:03 PM with a total survey duration of 150 minutes. He navigated the lakes shoreline and

Table 1. CDFW stocking history for Upper and Lower Angora Lakes, El Dorado County, 2000–2025.

<i>Waterbody</i>	<i>Year</i>	<i>Species</i>	<i>Number of Fish Planted</i>	<i>Size</i>
Upper Angora Lake	2025	LCT	4,000	Fingerling
	2024	LCT	4,000	Fingerling
	2013	LCT	4,000	Fingerling
	2008	LCT	4,000	Fingerling
	2007	LCT	4,000	Fingerling
	2006	LCT	4,000	Fingerling
	2005	LCT	4,000	Fingerling
	2004	LCT	4,500	Fingerling
	2000	LCT	4,000	Fingerling
Lower Angora Lake	2025	LCT	5,000	Fingerling
	2024	LCT	5,000	Fingerling
	2021	LCT	5,000	Fingerling
	2013	LCT	5,000	Fingerling
	2009	LCT	4,800	Fingerling
	2009	BK	5,000	Fingerling
	2006	BK	3,000	Fingerling
	2005	BK	2,520	Fingerling
	2003	LCT	4,000	Fingerling
	2003	BK	3,000	Fingerling
	2000	BK	3,000	Fingerling

LCT = Lahontan Cutthroat Trout; **BK** = Brook Trout.



Figure 2: Overview photograph of Lower Angora Lake facing south (CDFW, June 6, 2018).

tributaries looking for diurnal amphibians and reptiles. The air temperature was 27° Celsius and water temperature was 21° Celsius at 12:23 PM under clear skies. Water conditions were clear with little to no surface disturbance. Lantz did not observe any amphibians or reptiles during the survey. However, he observed hundreds of Speckled Dace (*Rhinichthys osculus*) and Lahontan Redside Shiners (*Richardsonius egregius*) in near shore and tributary habitats.

On July 2, 2026, Lantz surveyed Upper Angora Lake and its outlet from 12:02 PM to 13:12 PM with a total survey duration of 70 minutes. The air temperature was 20° Celsius at 12:23 under clear skies. Water conditions were clear with little to no surface disturbance. Water temperature was 18.9° Celsius at 12:24 PM. He did not observe any amphibians or reptiles during the survey. Similarly to Lower Angora Lake, he observed schooling



Figure 3: Overview photograph of unnamed pond (Lake ID 14209), facing north (CDFW, June 6, 2018).

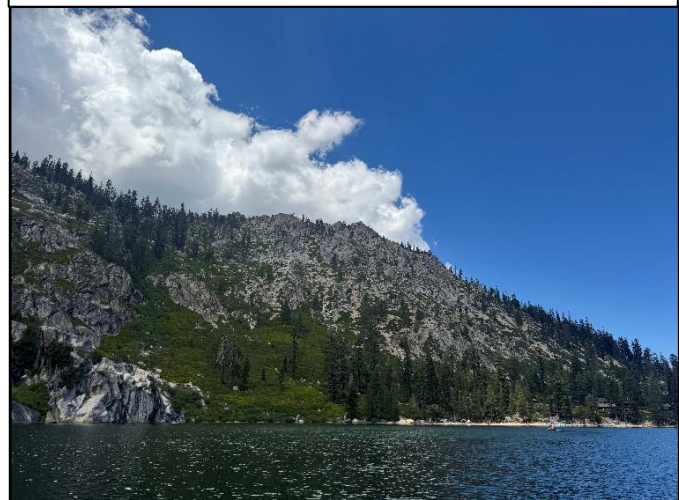


Figure 4: Overview photograph of Upper Angora Lake, facing north (CDFW, June 6, 2018).

Lahontan Redside Shiners near shore throughout the survey.

Consistent with the findings and management recommendations of prior year Angora Lakes survey memorandums (Lockhart 2019; Lockhart 2018), the absence of special-status species and the abundant minnow forage continue to support management of the Angora Lakes as put-and-grow Lahontan Cutthroat Trout fisheries. Recent stocking efforts have continued this management strategy, with fingerling Lahontan Cutthroat Trout expected to utilize the available forage base and develop into desirable sport fish for recreational anglers and visitors to Angora Lakes Resort. Therefore, the Angora Lakes remain suitable for continued planting of fingerling Lahontan Cutthroat Trout.

Works Cited

Lockhart, Mitch. 2018. Visual Encounter Survey at Lower Angora Lake, El Dorado County. CDFW. Available from: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=161044>

Lockhart, Mitch. 2019. Visual Encounter Survey at Upper Angora Lake, El Dorado County. CDFW. Available from: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=174197>

Needham, P. R. and F. K. Sumner. 1941. Fish management problems of high western lakes with returns from marked trout planted in upper Angora Lake, California. Trans. American Fisheries Society; 71: 249-269

CDFW High Mountain Lakes - Amphibian and Reptile Visual Encounter Survey Data Sheet

Site ID: 14214		Date: 06/16/26		SKY: ☒ Clear ☐ Partly Cloudy ☐ Mostly Over-Cloudy ☐ Rain ☐ Snow ☐ Smoke			WIND: ☒ Calm ☐ Light ☐ Moderate ☐ Strong				
Lake Name: Lower Angora Lakes		County: El Dorado		Elevation: 7377 m		If not surveyed, provide reason:		Private Property	Frozen	Not Found	No Access
Surveyors: Lutz, Virgen				Water Type: lake		Unmapped pond		Marsh/ meadow	Spring seep	Stream (Skip to "STREAM" on pg. 2)	
Current water depth (est., in m)		East UTM: 38,86712		North UTM: -120,04689				UTM Zone: 10S			
Color: ☒ Clear ☐ Stained	Air (1 m above water): 26	☒ C @ 1033 or F		Water (0.5 m off shore, 10 cm deep): 20		☒ C @ 1035 or F		Seasonality: ☒ Perennial ☐ Ephemeral		Currently Dry? ☐ Yes ☒ No	
Turbidity: ☒ Clear ☐ Cloudy	Survey START time: 1033	Survey END time: 1142	Total survey duration (min): 69	HERPS SEEN? ☒ YES ☐ NO	FISH SEEN? ☒ YES ☐ NO						

*FOR LAKES/PONDS/MEADOWS: ALSO SURVEY FIRST 200 m OF INLETS AND OUTLETS. RECORD DATA SEPARATELY IN THE "STREAMS" SECTION ON PG. 2

HERP SPECIES	# adults	# subadults	# metamorphs	# larvae	# egg mass	TTD P.M.	TTD E.L.	# swabs	Survey Method
Speckled DACE	~1100								Visual Trapped
Calling? Y (N/NA)									Aural Hand Collected
Red Shiner	~350								Visual Trapped
Calling? Y (N/NA)									Aural Hand Collected
Trout	24								Visual Trapped
Calling? Y (N/NA)									Aural Hand Collected
									Amp Net Incidental
									Visual Trapped
Calling? Y N NA									Aural Hand Collected
									Amp Net Incidental
									Visual Trapped
Calling? Y N NA									Aural Hand Collected
									Amp Net Incidental

Time-to-Detection (TTD) abbreviations: P.M. = TTD of first post-metamorphic individual (adult or subadult); E.L. = TTD of Early Life stage (metamorph, larvae, or egg/egg mass)

FISH SPECIES: (circle species seen, if known): BK (brook trout), BN (brown trout), CT (cutthroat trout), GT (golden trout), RT (rainbow trout) HYBRID (e.g., GT x RT), OTHER (e.g., minnows)

Amphibians: S. Long-toed Salamander (AMMA); Yosemite Toad (ANCA, frmlly BUCA); Sierran Treefrog (HYSI, frmlly PSRE or HYRE); Sierra Nevada Yellow-legged Frog (RASI)
 Amph. less common in HML: CA Toad (ANBO, frmlly BUBO); Bullfrog (RACT); Cascades Frog (RACA); CA Red-legged Frog (RADR); Sierra Newt (TASI, frmlly TATO)
 Reptiles: Sierra Gartersnake (THCO); Mountain Gartersnake (THEL); Valley Gartersnake (THSI); Western Pond Turtle (EMMA, frmlly CLMA)

PHOTOS	Photo Number	Photographer Initials	Time	Date (yyyy-mm-dd)	UTM E	UTM N	Comments
Overview							
Herps							
Other							

<p>SITE SKETCH:</p> 	<p>NOTES:</p> <p>Inlet 1 will be surveyed along with upper Angora Lakes</p>
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STREAM											
Inlet (circle one) # <u>1</u>		Stream Type: <u>Perennial</u>		Ephemeral		Stream Currently Dry? <u>Y</u> <u>N</u>		Intermittent? <u>Y</u> <u>N</u>			
Start		End		Color: <u>Clear</u> Stained NA		Turbidity: <u>Clear</u> Cloudy NA					
UTM E: <u>38.86731</u>		UTM N: <u>-120.06444</u>		UTM E: <u>38.86753</u>		UTM N: <u>-120.06436</u>					
Start Time: <u>1203</u>		End time: <u>1214</u>		Dur (min): <u>11</u>		Air Temp: <u>27</u> °C @ <u>1203</u>		Water Temp: <u>20</u> °C @ <u>1204</u>		*BARRIERS (fill out info below)*	
Herps present? <u>Y</u> <u>N</u>		Barrier 1) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Fish present? <u>Y</u> <u>N</u>		Barrier 2) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Spawning evidence? <u>Spawning / Redds / Fry / None</u>		Barrier 3) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Inlet (circle one) # <u>1</u>		Stream Type: <u>Perennial</u>		Ephemeral		Stream Currently Dry? <u>Y</u> <u>N</u>		Intermittent? <u>Y</u> <u>N</u>			
Start		End		Color: <u>Clear</u> Stained NA		Turbidity: <u>Clear</u> Cloudy NA					
UTM E: <u>/</u>		UTM N: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Start Time: <u>/</u>		End time: <u>/</u>		Dur (min): <u>/</u>		Air Temp: <u>/</u> °C @ <u>/</u>		Water Temp: <u>/</u> °C @ <u>/</u>		*BARRIERS (fill out info below)*	
Herps present? <u>Y</u> <u>N</u>		Barrier 1) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Fish present? <u>Y</u> <u>N</u>		Barrier 2) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Spawning evidence? <u>Spawning / Redds / Fry / None</u>		Barrier 3) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Inlet (circle one) # <u>1</u>		Stream Type: <u>Perennial</u>		Ephemeral		Stream Currently Dry? <u>Y</u> <u>N</u>		Intermittent? <u>Y</u> <u>N</u>			
Start		End		Color: <u>Clear</u> Stained NA		Turbidity: <u>Clear</u> Cloudy NA					
UTM E: <u>/</u>		UTM N: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Start Time: <u>/</u>		End time: <u>/</u>		Dur (min): <u>/</u>		Air Temp: <u>/</u> °C @ <u>/</u>		Water Temp: <u>/</u> °C @ <u>/</u>		*BARRIERS (fill out info below)*	
Herps present? <u>Y</u> <u>N</u>		Barrier 1) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Fish present? <u>Y</u> <u>N</u>		Barrier 2) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Spawning evidence? <u>Spawning / Redds / Fry / None</u>		Barrier 3) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Inlet (circle one) # <u>1</u>		Stream Type: <u>Perennial</u>		Ephemeral		Stream Currently Dry? <u>Y</u> <u>N</u>		Intermittent? <u>Y</u> <u>N</u>			
Start		End		Color: <u>Clear</u> Stained NA		Turbidity: <u>Clear</u> Cloudy NA					
UTM E: <u>/</u>		UTM N: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Start Time: <u>/</u>		End time: <u>/</u>		Dur (min): <u>/</u>		Air Temp: <u>/</u> °C @ <u>/</u>		Water Temp: <u>/</u> °C @ <u>/</u>		*BARRIERS (fill out info below)*	
Herps present? <u>Y</u> <u>N</u>		Barrier 1) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Fish present? <u>Y</u> <u>N</u>		Barrier 2) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
Spawning evidence? <u>Spawning / Redds / Fry / None</u>		Barrier 3) Photo #'s: <u>/</u>		UTM E: <u>/</u>		UTM N: <u>/</u>					
Description: <u>/</u>											
HERP SPECIES											
In/Outlet #		# adults		# subadults		# meta		# larvae		# egg mass	
TTD P.M.		TTD E.L.		# swabs		Survey Method					
Speckle Dace		#1		~250							
Calling? <u>Y</u> <u>N</u> <u>NA</u>		IN		OUT							
Visual		Trapped									
Aural		Hand Collected									
Amp Net		Incidental									
Calling? <u>Y</u> <u>N</u> <u>NA</u>		IN		OUT							
Visual		Trapped									
Aural		Hand Collected									
Amp Net		Incidental									
Calling? <u>Y</u> <u>N</u> <u>NA</u>		IN		OUT							
Visual		Trapped									
Aural		Hand Collected									
Amp Net		Incidental									
Calling? <u>Y</u> <u>N</u> <u>NA</u>		IN		OUT							
Visual		Trapped									
Aural		Hand Collected									
Amp Net		Incidental									
Time-to-Detection (TTD) abbreviations: P.M. = TTD of first post-metamorphic individual (adult or subadult); E.L. = TTD of Early Life stage (metamorph. larvae, or egg/egg mass)											
FISH SPECIES: (circle species seen, if known): BK (brook trout), BN (brown trout), CT (cutthroat trout), GT (golden trout), RT (rainbow trout) HYBRID (e.g., GT x RT), OTHER (e.g., minnows)											
Amphibians: S. Long-toed Salamander (AMMA); Yosemite Toad (ANCA, fmlly BUCO); Sierran Treefrog (HYSI, fmlly PSRE or HYRE); Sierra Nevada Yellow-legged Frog (RASI)											
Amph. less common in HML: CA Toad (ANBO, fmlly BUBO); Bullfrog (RACT); Cascades Frog (RACA); CA Red-legged Frog (RADR); Sierra Newt (TASI, fmlly TATO)											
Reptiles: Sierra Gartersnake (THCO); Mountain Gartersnake (THEL); Valley Gartersnake (THSI); Western Pond Turtle (EMMA, fmlly CLMA)											

CDFW High Mountain Lakes - Amphibian and Reptile Visual Encounter Survey Data Sheet

Site ID: <u>14209</u>		Date: <u>06/16/2026</u>		SKY: ☒ Clear ☐ Partly Cloudy ☐ Mostly Cloudy ☐ Overcast ☐ Rain ☐ Snow ☐ Smoke		WIND: ☒ Calm ☐ Light ☐ Moderate ☐ Strong	
Lake Name: <u>#14209</u>		County: <u>El Dorado</u>		Elevation: <u>7369</u> m		If not surveyed, provide reason: ☐ Private Property ☐ Frozen ☐ Not Found ☐ No Access	
Surveyors: <u>Luntz, Virgen</u>				Water Type: ☒ Lake ☐ Unmapped pond ☐ Marsh/meadow ☐ Spring seep ☐ Stream (Skip to "STREAM" on pg. 2)			
Current water depth (est. in m): <u>~1m</u>		East UTM: <u>38.86756</u>		North UTM: <u>-120.06441</u>		UTM Zone: <u>10S</u>	
Color: ☒ Clear ☐ Stained		Air (1 m above water): <u>27°C</u> or F <u>123</u>		Water (0.5 m off shore, 10 cm deep): <u>21°C</u> or F <u>124</u>		Seasonality: ☒ Perennial ☐ Ephemeral	
Turbidity: ☒ Clear ☐ Cloudy		Survey START time: <u>1223</u>		Survey END time: <u>1303</u>		Total survey duration (min): <u>40</u>	
		HERPS SEEN? ☒ YES ☐ NO		FISH SEEN? ☒ YES ☐ NO		Currently Dry? ☐ Yes ☒ No	
*FOR LAKES/PONDS/MEADOWS: ALSO SURVEY FIRST 200 m OF INLETS AND OUTLETS. RECORD DATA SEPARATELY IN THE "STREAMS" SECTION ON PG. 2							
HERP SPECIES	# adults	# subadults	# metamorphs	# larvae	# egg mass	TTD P.M.	TTD E.L.
<u>Speckled Dace</u>	<u>3</u>						
Calling? Y (N) NA							
<u>Trout</u>	<u>6</u>						
Calling? Y (N) NA							
<u>Speckled Dace</u>	<u>~450</u>						
Calling? Y (N) NA							
Calling? Y N NA							
Calling? Y N NA							
Time-to-Detection (TTD) abbreviations: P.M. = TTD of first post-metamorphic individual (adult or subadult); E.L. = TTD of Early Life stage (metamorph, larvae, or egg/egg mass)							
FISH SPECIES: (circle species seen, if known): BK (brook trout), BN (brown trout), CT (cutthroat trout), GT (golden trout), RT (rainbow trout) HYBRID (e.g., GT x RT), OTHER (e.g., minnows)							
Amphibians: S. Long-toed Salamander (AMMA); Yosemite Toad (ANCA, fmlly BUCA); Sierran Treefrog (HYSI, fmlly PSRE or HYRE); Sierra Nevada Yellow-legged Frog (RASI)							
Amph. less common in HML: CA Toad (ANBO, fmlly BUBO); Bullfrog (RACT); Cascades Frog (RACA); CA Red-legged Frog (RADR); Sierra Newt (TASI, fmlly TATO)							
Reptiles: Sierra Gartersnake (THCO); Mountain Gartersnake (THEL); Valley Gartersnake (THSI); Western Pond Turtle (EMMA, fmlly CLMA)							

PHOTOS	Photo Number	Photographer Initials	Time	Date (yyy-mm-dd)	UTM E	UTM N	Comments
Overview							
Herps							
Other							

SITE SKETCH:



NOTES:

Lots of pollen on water surface near shore. Affected visual survey.

STREAM											
Inlet		Outlet (circle one) # 1		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y N		Intermittent? Y N	
Start		UTM E: 38.86775		UTM N: -120.06353		End		UTM E: 38.86807		UTM N: -120.06192	
Start Time: 12:45		End time: 12:55		Dur (min): 10		Air Temp: 27 °C @ 12:45		Water Temp: 21 °C @ 12:45		*BARRIERS (fill out info below)*	
Herps present?		Y N		Barrier 1) Photo #'s:		UTM E:		UTM N:		Color: Clear Stained NA	
Fish present?		Y N		Barrier 2) Photo #'s:		UTM E:		UTM N:		Turbidity: Clear Cloudy NA	
Spawning evidence?		Y N		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:	
Spawning / Redds / Fry / None											
Inlet		Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y N		Intermittent? Y N	
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		*BARRIERS (fill out info below)*	
Herps present?		Y N		Barrier 1) Photo #'s:		UTM E:		UTM N:		Color: Clear Stained NA	
Fish present?		Y N		Barrier 2) Photo #'s:		UTM E:		UTM N:		Turbidity: Clear Cloudy NA	
Spawning evidence?		Y N		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:	
Spawning / Redds / Fry / None											
Inlet		Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y N		Intermittent? Y N	
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		*BARRIERS (fill out info below)*	
Herps present?		Y N		Barrier 1) Photo #'s:		UTM E:		UTM N:		Color: Clear Stained NA	
Fish present?		Y N		Barrier 2) Photo #'s:		UTM E:		UTM N:		Turbidity: Clear Cloudy NA	
Spawning evidence?		Y N		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:	
Spawning / Redds / Fry / None											
Inlet		Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y N		Intermittent? Y N	
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		*BARRIERS (fill out info below)*	
Herps present?		Y N		Barrier 1) Photo #'s:		UTM E:		UTM N:		Color: Clear Stained NA	
Fish present?		Y N		Barrier 2) Photo #'s:		UTM E:		UTM N:		Turbidity: Clear Cloudy NA	
Spawning evidence?		Y N		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:	
Spawning / Redds / Fry / None											
HERP SPECIES		In/Outlet #		# adults		# subadults		# meta		# larvae	
Speckled Dace		(circle one) IN		#4		#75					
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
		(circle one) IN		#							
Calling? Y N NA		OUT									
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CDFW High Mountain Lakes - Amphibian and Reptile Visual Encounter Survey Data Sheet

Site ID: <u>14223</u>	Date: <u>07/02/26</u>	SKY: Clear ☐ Partly Cloudy ☒ Mostly Over-Cloudy ☐ Rain ☐ Snow ☐ Smoke ☐	WIND: <u>Calm</u> Light ☐ Moderate ☐ Strong ☐
Lake Name: (from map) <u>Upper Angora Lk</u>	County: <u>El Dorado</u>	Elevation: <u>7446</u> m	If not surveyed, provide reason: Private Property ☐ Frozen ☐ Not Found ☐ No Access ☐
Surveyors: <u>Luntz, Virgen</u>		Water Type: <u>Lake</u> Unmapped pond ☐ Marsh/meadow ☐ Spring seep ☐ Stream (Skip to "STREAM" on pg. 2) ☐	
Current water depth (est., in m):	East UTM: <u>38.86314</u>	North UTM: <u>-120.06739</u>	UTM Zone: <u>10S</u>
Color: <u>Clear</u> Stained ☐ Turbidity: <u>Clear</u> Cloudy ☐	Air (1 m above Temp water): <u>68°F</u> C @ <u>1202</u>	Water (0.5 m off shore, Temp 10 cm deep): <u>66°F</u> C @ <u>1203</u>	Seasonality: <u>Perennial</u> Ephemeral ☐ Currently Dry? <u>No</u> Yes ☐
Survey START time: <u>12:02</u>	Survey END time: <u>13:12</u>	Total survey duration (min): <u>70</u>	HERPS SEEN? <u>YES</u> ☐ <u>NO</u> ☐ FISH SEEN? <u>YES</u> ☐ <u>NO</u> ☐

*FOR LAKES/PONDS/MEADOWS: ALSO SURVEY FIRST 200 m OF INLETS AND OUTLETS. RECORD DATA SEPARATELY IN THE "STREAMS" SECTION ON PG. 2

HERP SPECIES	# adults	# subadults	# metamorphs	# larvae	# egg mass	TTD P.M.	TTD E.L.	# swabs	Survey Method
<u>Red-sided</u>	<u>145</u>								<u>Visual</u> Trapped
Calling? <u>Y</u> <u>N</u> <u>NA</u>									Aural Hand Collected
									Amp Net Incidental
									Visual Trapped
									Aural Hand Collected
									Amp Net Incidental
									Visual Trapped
									Aural Hand Collected
									Amp Net Incidental
									Visual Trapped
									Aural Hand Collected
									Amp Net Incidental

Time-to-Detection (TTD) abbreviations: P.M. = TTD of first post-metamorphic individual (adult or subadult); E.L. = TTD of Early Life stage (metamorph, larvae, or egg/egg mass)

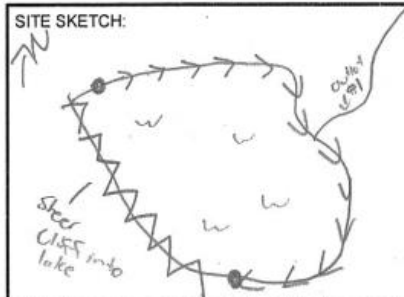
FISH SPECIES: (circle species seen, if known): BK (brook trout), BN (brown trout), CT (cutthroat trout), GT (golden trout), RT (rainbow trout) HYBRID (e.g., GT x RT); OTHER (e.g., minnows)

Amphibians: S. Long-toed Salamander (AMMA); Yosemite Toad (ANCA, frmlly BUCA); Sierran Treefrog (HYSI, frmlly PSRE or HYRE); Sierra Nevada Yellow-legged Frog (RASI)

Amph. less common in HML: CA Toad (ANBO, frmlly BUBO); Bullfrog (RACT); Cascades Frog (RACA); CA Red-legged Frog (RADR); Sierra Newt (TASI, frmlly TATO)

Reptiles: Sierra Gartersnake (THCO); Mountain Gartersnake (THEL); Valley Gartersnake (THSI); Western Pond Turtle (EMMA, frmlly CLMA)

PHOTOS	Photo Number	Photographer Initials	Time	Date (yyyy-mm-dd)	UTM E	UTM N	Comments
Overview							
Herps							
Other							



NOTES:

- surveyed clockwise from North end of lake
- Outlet has Low Flow
- ↳ Outlet dries up ~100 m downstream
- ↳ Minnow trap at mouth with ~40 red-sided-minnows

STREAM											
Inlet (circle one) # <u>1</u>		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y <u>N</u>		Intermittent? Y <u>N</u>		Partially dry	
Start		UTM E: <u>38.86317</u>		UTM N: <u>-120.06641</u>		End		UTM E: <u>38.86454</u>		UTM N: <u>-120.06482</u>	
Start Time: <u>13:17</u>		End time: <u>13:56</u>		Dur (min): <u>44</u>		Air Temp: <u>68°F @ 13m</u>		Water Temp: <u>66°F @ 13m</u>		Color: (Clear) Stained NA	
Herps present? Y <u>N</u>		Barrier 1) Photo #'s:		UTM E: <u>38.86538</u>		UTM N: <u>-120.06549</u>		Description: <u>River dries up - no physical barrier</u>		Turbidity: (Clear) Cloudy NA	
Fish present? Y <u>N</u>		Barrier 2) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning evidence?		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning / Redds / Fry / None											
Inlet Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y <u>N</u>		Intermittent? Y <u>N</u>			
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		Color: Clear Stained NA	
Herps present? Y <u>N</u>		Barrier 1) Photo #'s:		UTM E:		UTM N:		Description:		Turbidity: Clear Cloudy NA	
Fish present? Y <u>N</u>		Barrier 2) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning evidence?		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning / Redds / Fry / None											
Inlet Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y <u>N</u>		Intermittent? Y <u>N</u>			
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		Color: Clear Stained NA	
Herps present? Y <u>N</u>		Barrier 1) Photo #'s:		UTM E:		UTM N:		Description:		Turbidity: Clear Cloudy NA	
Fish present? Y <u>N</u>		Barrier 2) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning evidence?		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:			
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Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		Color: Clear Stained NA	
Herps present? Y <u>N</u>		Barrier 1) Photo #'s:		UTM E:		UTM N:		Description:		Turbidity: Clear Cloudy NA	
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Inlet Outlet (circle one) #		Stream Type: Perennial		Ephemeral		Stream Currently Dry? Y <u>N</u>		Intermittent? Y <u>N</u>			
Start		UTM E:		UTM N:		End		UTM E:		UTM N:	
Start Time:		End time:		Dur (min):		Air Temp: °C @		Water Temp: °C @		Color: Clear Stained NA	
Herps present? Y <u>N</u>		Barrier 1) Photo #'s:		UTM E:		UTM N:		Description:		Turbidity: Clear Cloudy NA	
Fish present? Y <u>N</u>		Barrier 2) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning evidence?		Barrier 3) Photo #'s:		UTM E:		UTM N:		Description:			
Spawning / Redds / Fry / None											
HERP SPECIES		In/Outlet #		# adults		# subadults		# meta		# larvae	
(circle one)		#									
IN											
OUT											
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Visual		Trapped									
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PLEASE Return to: Isaac Chellman, California Department of Fish and Wildlife, (916) 767-4673, 1701 Nimbus Rd., Rancho Cordova, CA 95670