

State of California
Department of Fish and Wildlife

Memorandum

Date: November 9, 2020

To: Sarah Mussulman
Senior Environmental Scientist; Supervisor
Department of Fish and Wildlife
North Central Region
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

Cc: CDFW North Central Region Fish Files

From: Mitch Lockhart; Environmental Scientist, &
Clyde "Cian" Hettrick; Scientific Aid
Department of Fish and Wildlife
1701 Nimbus Road, Suite A
Rancho Cordova, CA 95670

Subject: Pre-Stocking Evaluation at Round Lake, El Dorado County.

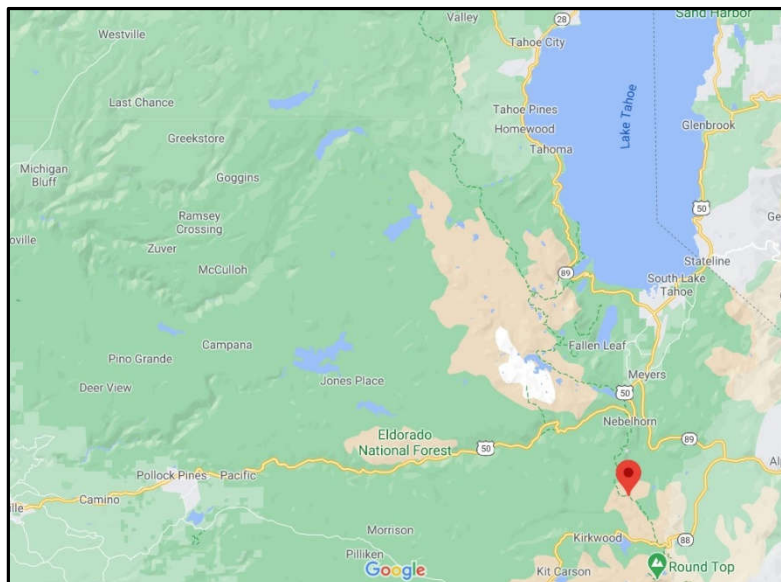


Figure 1: Map showing Round Lake (red pin) in relation to Lake Tahoe (Google Maps retrieved 9/04/20).

Round Lake (Lake ID 14469) is a hiking and backpacking destination located in El Dorado County on U.S. Forest Service land within the Dardanelles Roadless Area managed by the Lake Tahoe Basin Management Unit (LTBMU) (**Figure 1**). Round Lake is accessible by a three-mile hike via the Big Meadow Trailhead. The lake level is maintained by a small earthen dam at an elevation of 8,037 feet above sea level. The creek flowing out of Round Lake is a tributary to the Upper Truckee River and eventually flows into Lake Tahoe. Since 1950 The California Department of Fish

and Wildlife (CDFW) planted Brook Trout (*Salvelinus fontinalis*; BK) in Round Lake. In 1954 CDFW switched to planting Lahontan Cutthroat Trout (*Onchorhynchus clarkii henshawi*; LCT), the only native trout to the Lake Tahoe Basin. Round Lake is part of the Upper Truckee River Lahontan Cutthroat Trout Restoration Project (UTRLCTRP). For more on this project refer to LTBMU's UTRLCTRP 2018 Annual Report (BO#:2008-F-0434-R001).

To assess whether continued plants of LCT are appropriate at Round Lake, one CDFW Environmental Scientist, three Scientific Aids, and two volunteers surveyed the lake on July 9 and July 10, 2020 to determine the current status of the fish and herpetofauna populations. The assessment included a hook-and-line survey and a visual encounter survey (VES).

The crew performed hook and line surveys on the afternoon of July 9, 2020 and the morning of the July 10, 2020 to determine if trout residing in the lake were catchable using lures. On July 9, the crew fished 1:45 p.m. to 8:45p.m. for an effort of 20.6 hours fished and a catch of 31 LCT (**Table 2**). The morning of July 10 the crew fished between 5:35 a.m. and 9:15 a.m. for an effort of 10.6 hours with a total catch of 17 LCT (**Table 3**). Over the course of the 2-day survey period six anglers fished for 31.2 hours and caught 48 LCT (**Figure 2**). The average CPUE for the survey was 1.5 fish per hour and the average number of fish per angler was 4.4.

Table 2: Fish caught during a hook and line survey of Round Lake, El Dorado County, on July 9, 2020. Size class classifications: small (25 mm-150 mm), medium (151 mm-300 mm), large (301 mm-450 mm).

| Species | Length (mm) | Size Class | Angler | Species | Length (mm) | Size Class | Angler |
|---------|-------------|------------|--------|---------|-------------|------------|--------|
| LCT | 415 | Large | 1 | LCT | 250 | Medium | 4 |
| LCT | | Medium | 1 | LCT | 254 | Medium | 5 |
| LCT | | Medium | 1 | LCT | 203 | Medium | 5 |
| LCT | | Medium | 1 | LCT | 292 | Medium | 5 |
| LCT | 215 | Medium | 1 | LCT | 216 | Medium | 5 |
| LCT | 280 | Medium | 2 | LCT | | Large | 6 |
| LCT | 275 | Medium | 2 | LCT | | Large | 6 |
| LCT | 254 | Medium | 3 | LCT | 178 | Medium | 6 |
| LCT | 220 | Medium | 4 | LCT | 203 | Medium | 6 |
| LCT | 205 | Medium | 4 | LCT | | Small | 6 |
| LCT | 140 | Small | 4 | LCT | | Small | 6 |
| LCT | | Medium | 4 | LCT | 245 | Medium | 6 |
| LCT | | Medium | 4 | LCT | | Small | 6 |
| LCT | | Medium | 4 | LCT | | Small | 6 |
| LCT | 260 | Medium | 4 | LCT | | Small | 6 |
| LCT | 215 | Medium | 4 | | | | |

Table 3: Fish caught during a hook and line survey of Round Lake, El Dorado County, on July 10, 2020. Size class classifications: small (25 mm-150 mm), medium (151 mm-300 mm), large (301 mm-450 mm), extra-large (> 450mm).

| Species | Length (mm) | Size Class | Angler | Species | Length (mm) | Size Class | Angler |
|---------|-------------|-------------|--------|---------|-------------|------------|--------|
| LCT | 229 | Medium | 2 | LCT | 229 | Medium | 5 |
| LCT | 240 | Medium | 3 | LCT | 203 | Medium | 5 |
| LCT | 238 | Medium | 3 | LCT | 229 | Medium | 5 |
| LCT | 300 | Large | 4 | LCT | 152 | Small | 5 |
| LCT | 450 | Extra-Large | 4 | LCT | 155 | Small | 6 |
| LCT | 470 | Extra-Large | 4 | LCT | | Small | 6 |
| LCT | 255 | Medium | 4 | LCT | | Medium | 6 |
| LCT | 400 | Large | 4 | LCT | | Medium | 6 |
| LCT | 254 | Medium | 5 | | | | |

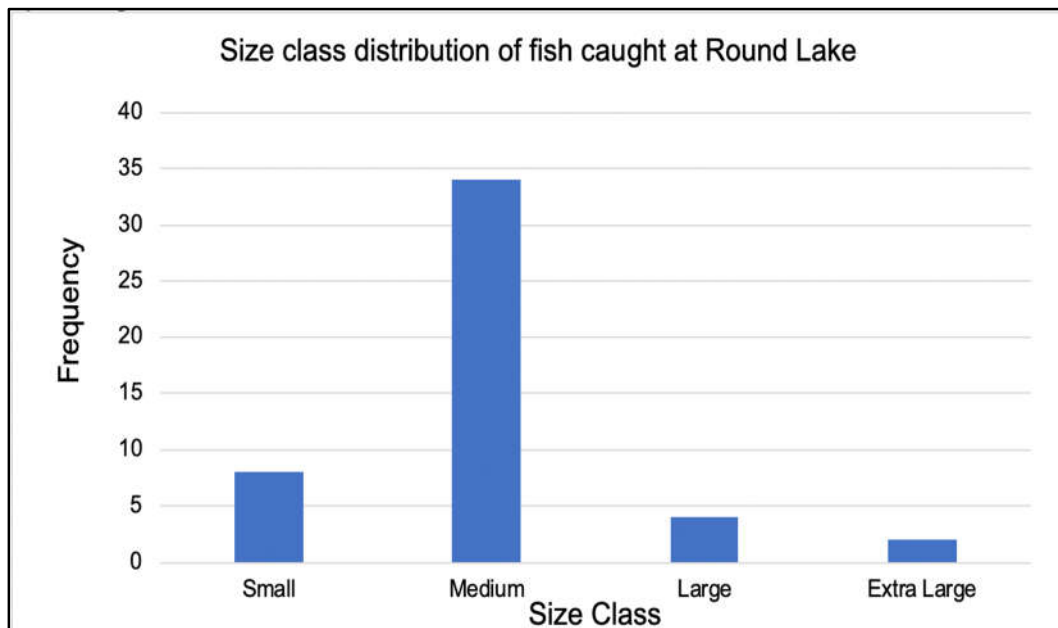


Figure 2: Length frequency histogram of fish captured during a hook-and-line survey of Round Lake, El Dorado County, on July 9 & 10, 2020. Size class classifications: small (25 mm-150 mm), medium (151 mm-300 mm), large (301 mm-450 mm), extra-large (> 450mm).

The CDFW Scientific Aides conducted a VES on July 9, 2020 to document the presence of any diurnal herpetofauna species that reside in or around the lake, specifically the Federally endangered Sierra Nevada Yellow-Legged Frog (*Rana sierrae*; SNYLF). The VES began at 2:44 p.m. and concluded at 3:37 p.m. for a total survey effort of 71

minutes. The survey was conducted under clear skies and an air temperature of 22 degrees Celsius, however the water was turbid and difficult to see through due to algal growth. Two adult and one subadult Mountain Gartersnakes (*Thamnophis elegans elegans*; THEL) were encountered during the survey.

CDFW has stocked Round Lake with LCT since 1954 up through the last stocking event in 2013. However, survey results clearly show that the LCT population at Round Lake is self-sustaining. Unlike other lakes in the area, Round Lake has a well-defined, perennial inlet. CDFW surveyors documented trout fry and suitable spawning habitat for LCT in the inlet channel. Moreover, hook-and-line catch data show multiple size classes and evidence of natural recruitment to adult-sized fish.

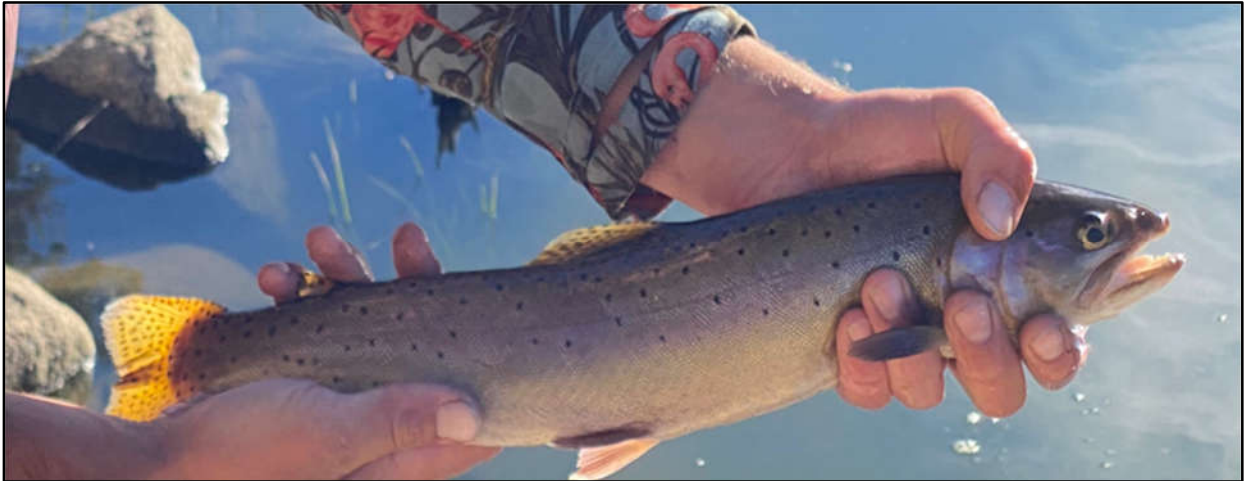
Table 3: CDFW stocking history for Round Lake, El Dorado Co., from 1990 to 2020.

| Date | Species | Number of Fish |
|------|---------|----------------|
| 1990 | LCT | 4,000 |
| 1991 | LCT | 4,000 |
| 1992 | LCT | 4,000 |
| 1993 | LCT | 4,000 |
| 1994 | LCT | 4,760 |
| 1995 | LCT | 4,000 |
| 1996 | LCT | 4,000 |
| 1997 | LCT | 4,000 |
| 1998 | LCT | 4,000 |
| 1999 | LCT | 4,000 |
| 2000 | LCT | 2,000 |
| 2004 | LCT | 2,088 |
| 2006 | LCT | 2,000 |
| 2007 | LCT | 2,000 |
| 2008 | LCT | 2,000 |
| 2009 | LCT | 2,400 |
| 2013 | LCT | 2,000 |

The 48 LCT caught during the two survey periods spanned four size classes: small (25 mm-150 mm), medium (151 mm-300 mm), large (301 mm-450 mm), and extra-large (> 450mm) (**Figure 2**). This variety of size classes is representative of a naturally reproducing fish population. Any hatchery-origin fish that have survived since the last CDFW plant in 2013 would be within the large or extra-large size classes.

The large and extra-large fish that were caught were skinny for their length exhibiting a “snaky” look (**Picture 1**). The low condition factor of larger fish could be seasonal

variability in fat content and body weight associated with spawning. However, multiple other factors could also be contributors such as parasites, disease, or lack of forage. Future monitoring surveys should be conducted during late summer or fall to see if the same body condition is seen in larger adult fish. It is important to note that all medium-sized fish and smaller captured exhibited exceptionally good body condition.



Picture 2: Adult LCT captured at Round Lake, El Dorado Co. on July 10, 2020. This fish is an example of the “snaky” body form and low body condition of large adult LCT at Round Lake.

While Round Lake does not require annual fish plants, LCT fingerlings should continue to be planted intermittently at Round Lake, especially if excess hatchery stock is available. Additional monitoring is warranted and should be conducted outside the spawning season for LCT.

FISH SURVEYING

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

DATE: Jul 9 2020

Site Name (if available): Round Lake Survey Crew: B Munsee M Lockhart

Net depth (m):

SITE ID: 14469 Fish Survey Method (single one): gill net hook and line o-fish

Net Location: E (UTM NAD 83) N Fish captured? (circle one) Y (insert data below) N

Gill Net: General location (circle): near inlet near outlet other Date: Start coord. (town/ran) End coord. (town/ran) Start (hhmm) End (hhmm) On Time (sec)

Electrofishing: Location: (inlet or outlet #) Start (hhmm) End (hhmm) On Time (sec)

E-fisher Settings (if needed): Volts: Hz Duty Cycle: Pulse Other:

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|------------------|
| | | | | | Early | Ripe | Late | | |
| 1 | LCT | 415 mm | - | U | | | | | snakey |
| 2 | | 280 mm | - | F | | | | | |
| 3 | | 275 mm | | F | | | | | |
| 4 | | 215 mm | - | U | | | | | |
| 5 | | 6-12" | | U | | | | | |
| 6 | | 6-12" | | U | | | | | |
| 7 | | 6-12" | | | | | | | |
| 8 | | | | | | | | | + 2 more hookups |
| 9 | | | | | | | | | |
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Table Sheet 2, pg. 1 of 2

Figure 3: Hook and line datasheet for Angler 2 for July 10, 2020 on Round Lake, El Dorado County.

FISH SURVEYING

| | | | | | | | | | | | |
|--|--|---|--|----------------------------------|--|---|--|--------------------|--|-----------------------|--|
| Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) | | | | | | | | | | DATE: July 10, 2020 | |
| Site Name (if available): Round Lake | | | | Survey Crew: M Lockhart | | | | Net depth (m): N | | | |
| SITE ID: 14469 | | Fish Survey Method: (circle one) gill net hook and line e-fish | | Net Location (UTM NAD 83): E: N: | | Fish captured? (circle one) (Y (insert data below) N | | | | | |
| Gill Net | | General location (circle): near inlet near outlet other | | Net Set Date: | | Net-set time (hhmm): | | Net Pull Date: | | Net pull time (hhmm): | |
| Electrofishing | | Location: (inlet or outlet #) | | Start coord. (downstream): E N | | End coord. (upstream): E N | | Start (hhmm): 0610 | | End (hhmm): 0700 | |
| E-fisher Settings (if needed): | | | | Volts: | | Hz: | | Duty Cycle: | | Pulse: | |
| Other: | | | | | | | | | | | |

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|-------------|
| | | | | | Early | Ripe | Late | | |
| 1 | LCT | ~ 9 inches | — | U | | | | | |
| 2 | | | | | | | | | + 3 hookups |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
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Data Sheet 2, pg. 1 of 2

Figure 4: Hook and line datasheet for Angler 2 for July 10, 2020 on Round Lake, El Dorado County.

Water: Round Lake Date: 7/9/2020
 Start: 1845 ^{am} Stop: 2030 ^{pm}
 No. Anglers: 1 Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | | | Y N | Y N |
| 2 | | | Y N | Y N |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round Lake Date: 7/10/2020
 Start: 0630 ^{am} Stop: 0900 ^{pm}
 No. Anglers: 1 Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|---------------------|---------------|--------------|--------------|
| 1 | <u>LCT (9.5 in)</u> | <u>240 mm</u> | <u>Y (N)</u> | <u>Y (N)</u> |
| 2 | <u>LCT (9.5 in)</u> | <u>237 mm</u> | <u>Y (N)</u> | <u>Y (N)</u> |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round Lake Date: 7/9/2020
 Start: 1350 ^{am} Stop: 1430 ^{pm}
 No. Anglers: 1 Species Targeted: LCT/Trout

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | | | Y N | Y N |
| 2 | | | Y N | Y N |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round Lake Date: 7/9/2020
 Start: 1605 ^{pm} Stop: 1652 ^{pm}
 No. Anglers: 1 Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|--------------|--------------|
| 1 | <u>LCT</u> | <u>10 in</u> | <u>Y (N)</u> | <u>Y (N)</u> |
| 2 | | | Y N | Y N |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Figure 5: Hook and line datasheet for Angler 3 for July 9-10, 2020 on Round Lake, El Dorado County.

FISH SURVEYING

| | | | | | | | | | | | | | |
|--|--|---|--|-------------------------------|--------------------------------|---------------------------|----------------------|--|----------------|------------------|-----------------------|----------------------|--|
| Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) | | | | | | | | | | DATE: 07/09/2020 | | | |
| Site Name (if available): Round Lake | | | | Survey Crew: JTS | | | | Net depth (m): | | | | | |
| SITE ID: 14469 | | Fish Survey Method: (circle one) gill net <input checked="" type="radio"/> hook and line <input checked="" type="radio"/> e-fish <input type="radio"/> | | | Net Location (UTM NAD 83) E: N | | | Fish captured? (circle one) Y (insert data below) N | | | | | |
| Gill Net | | General location (circle one): near inlet <input type="radio"/> near outlet <input type="radio"/> other <input type="radio"/> | | | Net Set Date: | | Net set time (hhmm): | | Net Pull Date: | | Net pull time (hhmm): | | |
| Electrofishing... | | Location: (inlet or outlet #) | | Start coord. (downstream) E N | | End coord. (upstream) E N | | Start (hhmm): 1402 | | End (hhmm): 1442 | | On Time (sec): 30min | |
| E-fisher Settings (if needed): | | | | Volts: | | Hz: | | Duty Cycle: | | Pulse: | | Other: | |

| Fish # | Species | Tot. Lgh (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|---------------|------------|-----|--------------------|------|------|-----------|--|
| | | | | | Early | Ripe | Late | | |
| 1 | | | | | | | | | Fish caught by other surveys. Water very green with algae visibility < 1ft |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
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Figure 6: First session hook and line datasheet for Angler 4 for July 9, 2020 on Round Lake, El Dorado County.

FISH SURVEYING

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|--|--|---|--|----------------------------------|--|------------------------------------|--|--|--|-----------------------|--|
| Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) | | | | | | | | | | DATE: 07/09/2020 | |
| Site Name (if available): Round Lake | | | | Survey Crew: JTS | | | | Net depth (m): | | | |
| SITE ID: 14469 | | Fish Survey Method: (circle one) gill net <input type="checkbox"/> hook and line <input checked="" type="checkbox"/> e-fish <input type="checkbox"/> | | | | Net Location: E (UTM NAD 83) N: | | Fish captured? (circle one) Y (insert data below) N <input checked="" type="checkbox"/> | | | |
| Gill Net | | General location (circle one): near inlet <input type="checkbox"/> near outlet <input type="checkbox"/> other <input type="checkbox"/> | | Net Set Date: | | Net set time (hhmm): | | Net Pull Date: | | Net pull time (hhmm): | |
| Electrofishing | | Location: (inlet or outlet #) | | Start coord. (downstream) E N | | End coord. (upstream) E N | | Start (hhmm): 1720 | | End (hhmm): 1812 | |
| E-fisher Settings (if needed): | | | | Volts: | | Hz: | | Duty Cycle: | | Pulse: | |
| Fish # | | Species | | Tot. Lgth (mm) | | Weight (g) | | Sex | | Egg Stage (F only) | |
| | | | | | | | | | | Early Ripe Late | |
| 1 | | LCT | | 11.5 | | | | | | | |
| 2 | | LCT | | 8.5 | | | | | | | |
| 3 | | | | | | | | | | | |
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Data Sheet 2, pg. 1 of 2

Figure 7: Second session hook and line datasheet for Angler 4 for July 9, 2020 on Round Lake, El Dorado County.

FISH SURVEYING

| | | | | | | | | | | | |
|---|--|---|--|-------------------------------|--|---------------------------------|--|--|--|-----------------------|--|
| Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) | | | | | | | | | | DATE: 07/09/2020 | |
| Site Name (if available): Round Lake | | | | | | | | | | Survey Crew: JTS | |
| SITE ID: 14469 | | Fish Survey Method: (circle one) gill net hook and line e-fish | | | | Net Location E: (UTM NAD 83) N: | | Fish captured? (circle one) Y (insert data below) N | | Net depth (m): | |
| Gill Net | | General location (circle one): near inlet near outlet other | | Net Set Date: | | Net set time (hhmm): | | Net Pull Date: | | Net pull time (hhmm): | |
| Electrofishing | | Location: (inlet or outlet #) | | Start coord. (downstream) E N | | End coord. (upstream) E N | | Start (hhmm): 1855 | | End (hhmm): 2045 | |
| E-fisher Settings (if needed): | | | | Volts: | | Hz: | | Duty Cycle: | | Pulse: | |
| Fish # | | Species | | Tot. Lgth (mm) in | | Weight (g) | | Sex | | Egg Stage (F only) | |
| | | | | | | | | | | Early Ripe Late | |
| 1 | | LCT | | 10 | | | | | | | |
| 2 | | LCT | | 8 | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
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| 35 | | | | | | | | | | | |
| PLEASE Return to: Isaac Cheilman, California Department of Fish and Wildlife, (916) 358-4038; 1701 Nimbus Rd., Rancho Cordova, CA 95670 | | | | | | | | | | | |
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| Data Sheet 2, pg. 1 of 2 | | | | | | | | | | | |

Figure 8: Third session hook and line datasheet for Angler 4 for July 9, 2020 on Round Lake, El Dorado County.

FISH SURVEYING

| | | | | | | | | | | | |
|--|--|--|--|-------------------------------|--|----------------------------------|--|--|--|-----------------------|--|
| Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) | | | | | | | | | | DATE: 07/10/2020 | |
| Site Name (if available): Round Lake | | | | Survey Crew: JTS | | | | Net depth (m): | | | |
| SITE ID: 14469 | | Fish Survey Method: (circle one) gill net <input checked="" type="checkbox"/> hook and line <input checked="" type="checkbox"/> e-fish <input type="checkbox"/> | | | | Net Location (UTM NAD 83): E: N: | | Fish captured? (circle one) Y (insert data below) N | | | |
| Gill Net | | General location (circle one): near inlet <input type="checkbox"/> near outlet <input type="checkbox"/> other <input type="checkbox"/> | | Net Set Date: | | Net set time (hhmm): | | Net Pull Date: | | Net pull time (hhmm): | |
| Electrofishing | | Location: (inlet or outlet #) | | Start coord. (downstream) E N | | End coord. (upstream) E N | | Start (hhmm): 0535 | | End (hhmm): 0900 | |
| E-fisher Settings: (if needed) | | Volts: | | Hz: | | Duty Cycle: | | Pulse: | | Other: | |
| On Time (sec): 2hrs | | | | | | | | | | | |

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|---|
| | | | | | Early | Ripe | Late | | |
| 1 | LCT | 10 | | | | | | | Only 1 fish caught at dawn. Most caught on steeper banks. |
| 2 | LCT | 9 | | | | | | | |
| 3 | LCT | 8 | | | | | | | |
| 4 | LCT | 9 | | | | | | | |
| 5 | LCT | 6 | | | | | | | |
| 6 | | | | | | | | | |
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| | | | |
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Data Sheet 2, pg. 1 of 2

Figure 9: Hook and line datasheet for Angler 4 for July 10, 2020 on Round Lake, El Dorado County.

Water: Round lake 14469 Date: 07/09/2020 PB
 Start: 13:40 am Stop: 15:10 am
 No. Anglers: 1 (P.B.) Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | LCT | 220mm | Y N | Y N |
| 2 | | 205mm | Y N | Y N |
| 3 | | 140mm | Y N | Y N |
| 4 | | M | Y N | Y N |
| 5 | | M | Y N | Y N |
| 6 | | M | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round lake 14469 Date: 07/10/2020
 Start: 06:20 am Stop: 09:00 am
 No. Anglers: 1 (P.B.) Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | LCT | 300 | Y N | Y N |
| 2 | | 250 | Y N | Y N |
| 3 | | 470 | Y N | Y N |
| 4 | | 255 | Y N | Y N |
| 5 | | 460 | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round lake 14469 Date: 07/09/2020
 Start: 18:30 am Stop: 20:45 am
 No. Anglers: 1 (P.B.) Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | LCT | 260mm | Y N | Y N |
| 2 | | 260mm | Y N | Y N |
| 3 | | 265mm | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: _____ Date: _____
 Start: _____ am Stop: _____ am
 No. Anglers: _____ Species Targeted: _____

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | | | Y N | Y N |
| 2 | | | Y N | Y N |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Figure 10: Hook and line datasheet for Angler 5 for July 9-10, 2020 on Round Lake, El Dorado County.

Water: Round lake Date: 7/9/20
 Start: 1345 am Stop: 1430 pm
 No. Anglers: 1 (6MH) Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|-------|
| 1 | LCT | 5 | Y (N) | Y (N) |
| 2 | LCT | 5 | Y (N) | Y (N) |
| 3 | LCT | 7" | Y (N) | Y (N) |
| 4 | LCT | 8" | Y (N) | Y (N) |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round lake Date: 7/9/20
 Start: 1830 am Stop: 2045 pm
 No. Anglers: 1 Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|-------|
| 1 | LCT | 5 | Y (N) | Y (N) |
| 2 | LCT | 5 | Y (N) | Y (N) |
| 3 | LCT | 245mm | Y (N) | Y (N) |
| 4 | LCT | 5 | Y (N) | Y (N) |
| 5 | LCT | 5 | Y (N) | Y (N) |
| 6 | LCT | 5 | Y (N) | Y (N) |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round lake Date: 7/9/20
 Start: 1607 am Stop: 1745 pm
 No. Anglers: 1 (6MH) Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|------|
| 1 | | | Y N | Y N |
| 2 | | | Y N | Y N |
| 3 | | | Y N | Y N |
| 4 | | | Y N | Y N |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Water: Round lake Date: 7/10/20
 Start: 0630 am Stop: 0915 pm
 No. Anglers: 1 Species Targeted: LCT

| Fish No. | Species Caught | Total Length | Fin Clipped | Kept |
|----------|----------------|--------------|-------------|-------|
| 1 | | 165mm | Y (N) | Y (N) |
| 2 | | 5 | Y (N) | Y (N) |
| 3 | | 11 | Y (N) | Y (N) |
| 4 | | 11 | Y (N) | Y (N) |
| 5 | | | Y N | Y N |
| 6 | | | Y N | Y N |
| 7 | | | Y N | Y N |
| 8 | | | Y N | Y N |
| 9 | | | Y N | Y N |
| 10 | | | Y N | Y N |
| 11 | | | Y N | Y N |
| 12 | | | Y N | Y N |
| 13 | | | Y N | Y N |
| 14 | | | Y N | Y N |
| 15 | | | Y N | Y N |
| 16 | | | Y N | Y N |
| 17 | | | Y N | Y N |
| 18 | | | Y N | Y N |
| 19 | | | Y N | Y N |
| 20 | | | Y N | Y N |

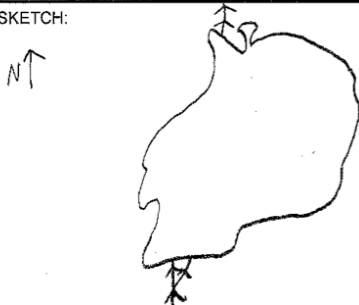
Species Codes:
 Kokanee = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Rainbow Trout = RT,
 Brown Trout = BN, Brook Trout = BK, Lahontan Cutthroat Trout = LCT, Golden Trout = GT,
 Mountain Whitefish = MWF

Figure 11: Hook and line datasheet for Angler 6 for July 9-10, 2020 on Round Lake, El Dorado County.

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|--|--|--|-----------------|--|---------------------------------------|--|-----------------|--|----------------------------------|--|--------------------|--|-------------------------------------|--|--------|--|-----------|--|-----------|--|
| Site ID: 14469 | | Date: 7/9/2020 | | SKY: Clear | | Partly Cloudy | | Mostly Over-Cloudy | | Rain Snow Smoke | | WIND: Calm | | Light | | Moderate | | Strong | | | | | |
| Topo Name: (1:24,000) Round Lake | | | | County: El Dorado | | | | Elevation: m ft - | | | | If not surveyed, provide reason: | | | | Private Property | | Frozen | | Not Found | | No Access | |
| Surveyors: CMH, JTS, LTM | | | | | | | | Water Type: Lake | | Unmapped pond | | Marsh/ meadow | | Spring seep | | Stream (Skip to "STREAMS" on pg. 2) | | | | | | | |
| Lake Name: (from map) Round Lake | | | | East UTM: 0760087 | | | | North UTM: 4292933 | | | | UTM Zone: 10 | | | | | | | | | | | |
| Color: Clear | | Stained | | Water (5 m from shore, Temp 10cm deep): 17 @ 14520 | | or F | | Air (1 m above Temp water): 22 @ 1451 | | or F | | Seasonality: Perennial | | Currently Dry? Yes | | | | | | | | | |
| Turbidity: Clear | | Cloudy | | | | | | | | | | | | | | | | | | | | | |
| Survey START time: 1444 | | Survey END time: 1537 | | Total survey duration (min): 71 | | HERPS SEEN? YES | | NO | | FISH SEEN? YES | | NO | | Ephemeral | | 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 m. | | # swabs | | Survey Method | | | | | | | | | |
| THEL | | 1 | | 1 | | | | | | | | | | Visual | | Trapped | | | | | | | |
| Calling? Y N | | | | | | | | | | | | | | Aural | | Hand Collected | | | | | | | |
| | | | | | | | | | | | | | | Amp Net | | Incidental | | | | | | | |
| | | | | | | | | | | | | | | Visual | | Trapped | | | | | | | |
| | | | | | | | | | | | | | | Aural | | Hand Collected | | | | | | | |
| Calling? Y N | | | | | | | | | | | | | | Amp Net | | Incidental | | | | | | | |
| | | | | | | | | | | | | | | Visual | | Trapped | | | | | | | |
| | | | | | | | | | | | | | | Aural | | Hand Collected | | | | | | | |
| Calling? Y N | | | | | | | | | | | | | | Amp Net | | Incidental | | | | | | | |
| | | | | | | | | | | | | | | Visual | | Trapped | | | | | | | |
| | | | | | | | | | | | | | | Aural | | Hand Collected | | | | | | | |
| Calling? Y N | | | | | | | | | | | | | | Amp Net | | Incidental | | | | | | | |
| | | | | | | | | | | | | | | Visual | | Trapped | | | | | | | |
| | | | | | | | | | | | | | | Aural | | Hand Collected | | | | | | | |
| Calling? Y N | | | | | | | | | | | | | | Amp Net | | Incidental | | | | | | | |
| 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 (RACF); 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 | Camera | Time | Date (yyyy-mm-dd) | UTM E | UTM N | Comments |
|----------|--------------|--------|------|-------------------|-------|-------|--------------------|
| Overview | 1534 | LTM | 1534 | 2020-Jul-09 | | | Overview Pano |
| | | | | | | | |
| | | | | | | | |
| Herps | 1515 | JTS | 1515 | | | | Pretty Sure THEL |
| | | | | | | | |
| | | | | | | | |
| Other | 1502 | JTS | 1502 | | | | Yoy LCT & Dace/LRS |
| | | | | | | | |
| | | | | | | | |

SITE SKETCH:



NOTES: Inlet survey, Photos of Inlet JTSP-1453-1457. Bald eagle in Inlet photo. Inlet is currently intermittent. JTSP-1503-1504 of Alder preventing survey. JTSP-1525-2 inlets unsurveyable (0760213, 4293034). JTSP-1532-unsurveyable inlet (0760252, 4293080).

PLEASE Return to: Isaac Chellman, California Department of Fish and Wildlife, (916) 358-4038; 1701 Nimbus Rd., Rancho Cordova, CA 95670

| | | | |
|--------------|--------|---------|---------|
| Field review | Copied | Entered | Proofed |
|--------------|--------|---------|---------|

Herp Data Sheet, pg. 1 of 2

Figure 22: Data Sheet with Visual Encounter Survey data from a survey conducted July 9, 2020, at Round Lake, El dorado County. One sub-adult and two adult THEL's were seen.