

State of California
Department of Fish and Wildlife

Memorandum

Date: January 28, 2020

To: Sarah Mussulman
Sierra Fisheries Supervisor
Department of Fish and Wildlife
North Central Region

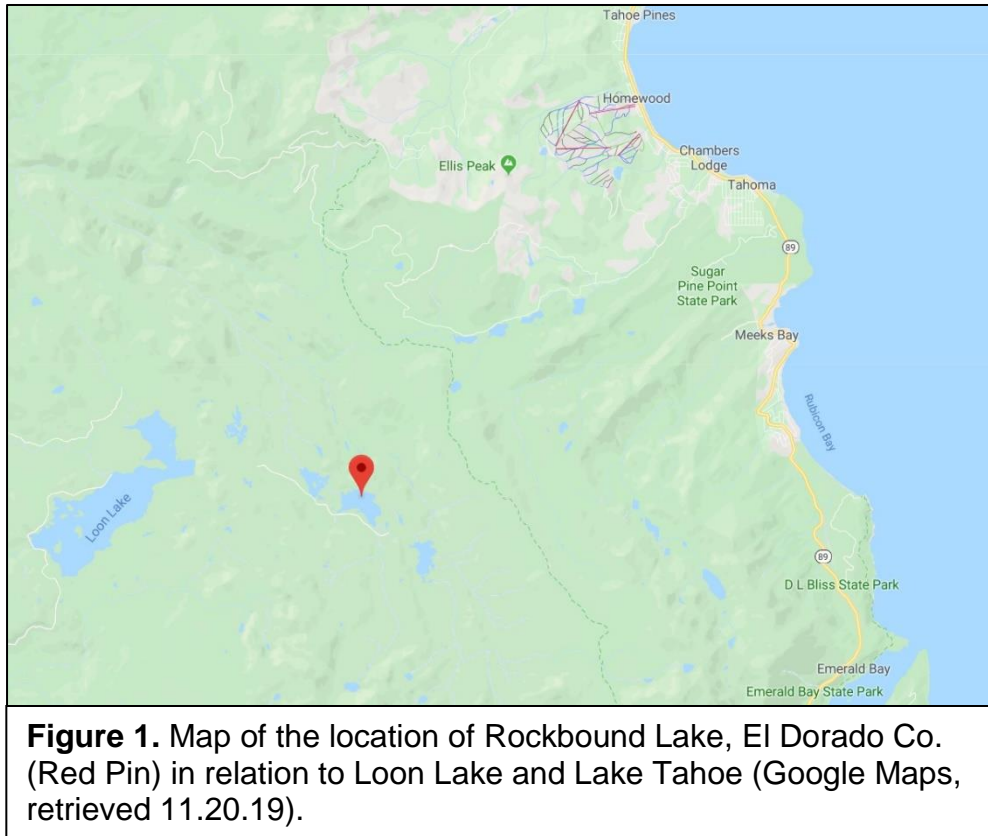
From: Mitch Lockhart
Environmental Scientist
Department of Fish and Wildlife
North Central Region

Subject: Resource Assessment at Rockbound Lake, El Dorado County

Rockbound Lake (ID 13780), El Dorado County, is located within the Desolation Wilderness on Eldorado National Forest (ENF) land approximately five miles west of Lake Tahoe (**Figure 1**). The reservoir is managed by Sacramento Municipal Utility District (SMUD) for power generation as part of the Upper American River Project (UARP; FERC Project 2101). It is most easily accessed from Loon Lake via the Rubicon Trail. California Department of Fish and Wildlife (CDFW) aerially planted fingerling brook trout (*Salvelinus fontinalis*; BK) between 1950 to 1965. Fingerling rainbow trout (*Oncorhynchus mykiss*; RT) were aerially planted from 1952 to 2013. Golden trout (*Oncorhynchus aguabonita*; GT) were planted once in 2006.

On July 30, 2019 four CDFW Scientific Aides conducted a visual encounter survey (VES) of the reservoir. The purpose of the survey was to determine if special status herpetofauna species are present at Rockbound Lake. The data are used to determine if planting Rockbound Lake with fingerling RT would result in impacts to special status species; specifically, Sierra Nevada yellow-legged frog (*Rana sierrae*; SNYLF). Rockbound Lake is within US Fish and Wildlife Service (USFWS) Designated Critical Habitat for the SNYLF.

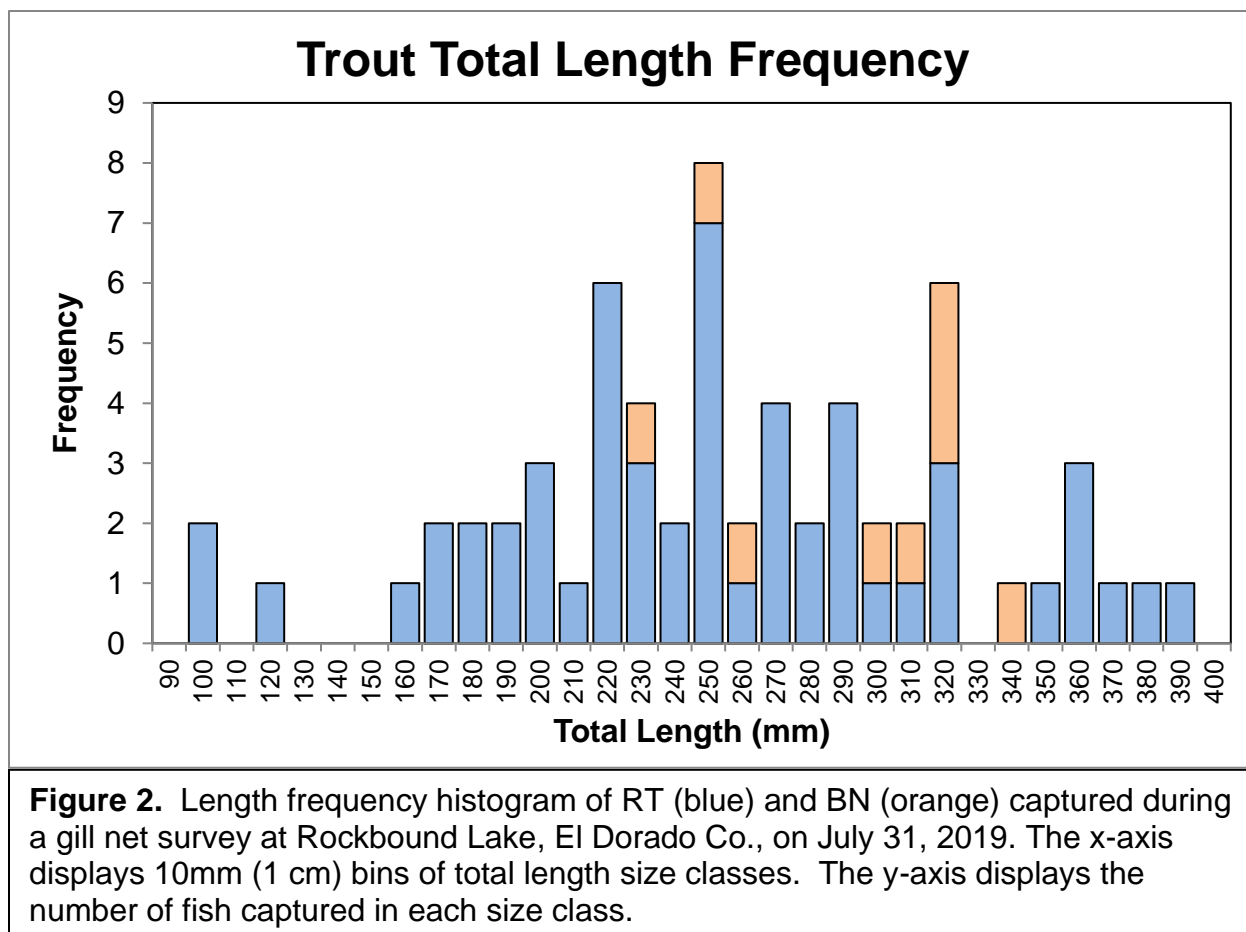
The survey began at 14:28 under clear skies and an air temperature of 24.0° Celsius and continued until 15:39 with a total survey duration of 206 minutes. The surveyors slowly circumambulated the lake shoreline and walked 200 meters of each tributary looking for diurnal amphibians and reptiles. No herpetofauna were observed during the



survey. A survey conducted in 2003 by CDFW detected Sierra garter snake (*Thamnophis couchii*) at Rockbound Lake, which are presumed extant despite not being observed in 2019.

On July 31, 2019, CDFW Scientific Aides set three gill nets at Rockbound Lake to sample the fishery. The nets were set between 19:15 and 19:50 hours and pulled the following morning on August 1, 2019 between 6:50 and 7:45 for a total survey effort of 35.5 hours. Sixty RT and nine brown trout (*Salmo trutta*; BN) were captured (**Figure 2**). A broad range of size classes in good body condition (Avg K = 0.94) were captured. Considering the lake has not been planted by CDFW with RT since 2013 and has not been planted by CDFW with BN since at least 1950 (**Table 1**), the range of size classes captured suggests natural reproduction will sustain populations of both trout species.

Another consideration is the Sierra Nevada yellow-legged frog (*Rana sierrae*; SNYLF) population located at Highland Lake (ID 13904) upstream of Rockbound Lake via an unnamed tributary (**Figure 3**). Since 2011, CDFW and ENF have conducted fish removal activities to benefit SNYLF and the population has rebounded (Chellman 2018). CDFW has conducted VES for SNYLF along the unnamed tributary from Highland Lake downstream for approximately 1 mile with positive detections of frogs the entire distance. It is an expected outcome that SNYLF will seasonally migrate to Rockbound Lake along the unnamed tributary at some point in the future if they have not done so already.



Due to the robust, self-sustaining populations of RT and BN in Rockbound Lake and the current or future presence of SNYLF migrations from Highland Lake source populations, CDFW will no longer aerially plant Rockbound Lake. The reservoir will be managed as a self-sustaining fishery. Monitoring the fishery every five to ten years will be necessary to detect dramatic shifts in trout abundance and the need for additional trout plants.

Literature Cited

Chellman, I. Highland Lake (Desolation Wilderness) fish removal and *Rana sierrae* monitoring. CDFW; 4/18/2018. [Cited 2020 January 28]. Available from: <http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=156672>

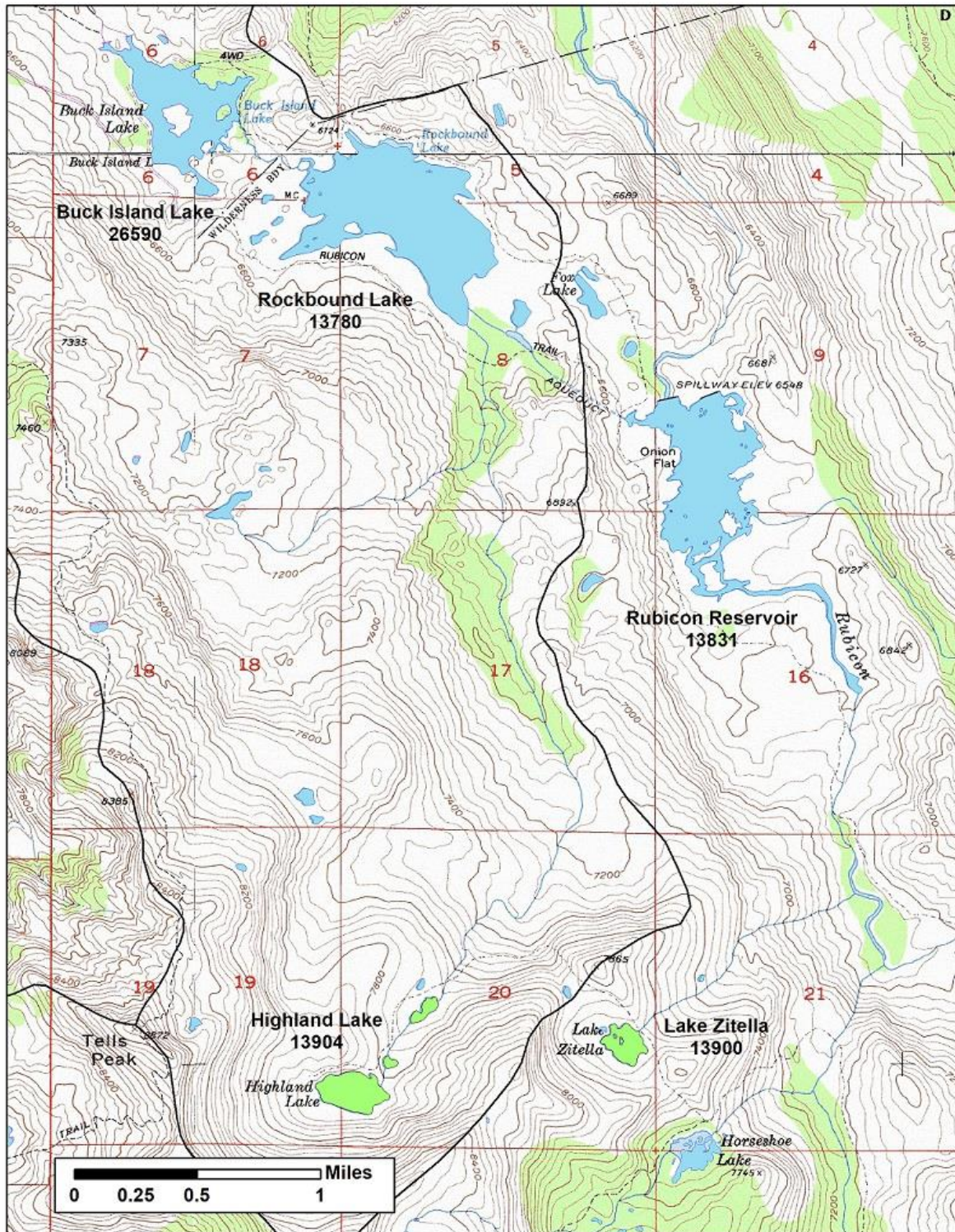


Figure 3: Detail map of Rockbound Lake and vicinity, El Dorado County. SNYLF populations are denoted in green at Highland Lake (ID 13904) and Lake Zitella (ID 13900). Highland Lake flows into Rockbound Lake via an unnamed tributary.

Table 1. CDFW Fingerling Stocking History of Rockbound Lake, El Dorado County.

| <i>Year</i> | <i>Species</i> | <i>Number</i> | <i>Year</i> | <i>Species</i> | <i>Number</i> | <i>Year</i> | <i>Species</i> | <i>Number</i> |
|-------------|----------------|---------------|-------------|----------------|---------------|-------------|----------------|---------------|
| 2013 | Rainbow Trout | 10,000 | 1985 | Rainbow Trout | 8,000 | 1963 | Rainbow Trout | 7,650 |
| 2011 | Rainbow Trout | 10,000 | 1984 | Rainbow Trout | 8,000 | 1962 | Rainbow Trout | 8,160 |
| 2009 | Rainbow Trout | 8,000 | 1983 | Rainbow Trout | 8,000 | 1962 | Brook Trout | 10,080 |
| 2007 | Rainbow Trout | 8,000 | 1982 | Rainbow Trout | 7,975 | 1961 | Rainbow Trout | 9,900 |
| 2006 | Rainbow Trout | 8,000 | 1981 | Rainbow Trout | 8,000 | 1961 | Brook Trout | 15,510 |
| 2006 | Golden Trout | 2,000 | 1980 | Rainbow Trout | 8,064 | 1960 | Rainbow Trout | 7,920 |
| 2004 | Rainbow Trout | 8,008 | 1979 | Rainbow Trout | 8,000 | 1959 | Brook Trout | 7,920 |
| 2003 | Rainbow Trout | 8,000 | 1978 | Rainbow Trout | 8,002 | 1959 | Rainbow Trout | 7,920 |
| 2002 | Rainbow Trout | 8,000 | 1977 | Rainbow Trout | 10,127 | 1958 | Rainbow Trout | 8,040 |
| 2001 | Rainbow Trout | 8,100 | 1976 | Rainbow Trout | 8,040 | 1958 | Brook Trout | 7,440 |
| 2000 | Rainbow Trout | 8,000 | 1975 | Rainbow Trout | 7,560 | 1957 | Brook Trout | 8,000 |
| 1999 | Rainbow Trout | 8,050 | 1974 | Rainbow Trout | 7,400 | 1957 | Rainbow Trout | 8,100 |
| 1998 | Rainbow Trout | 8,000 | 1973 | Rainbow Trout | 5,280 | 1956 | Brook Trout | 8,058 |
| 1997 | Rainbow Trout | 10,000 | 1972 | Rainbow Trout | 7,500 | 1956 | Rainbow Trout | 7,992 |
| 1996 | Rainbow Trout | 8,050 | 1971 | Rainbow Trout | 8,000 | 1955 | Rainbow Trout | 8,000 |
| 1995 | Rainbow Trout | 8,000 | 1970 | Rainbow Trout | 8,192 | 1955 | Brook Trout | 8,040 |
| 1994 | Rainbow Trout | 8,000 | 1969 | Rainbow Trout | 2,808 | 1954 | Brook Trout | 8,000 |
| 1993 | Rainbow Trout | 8,000 | 1968 | Rainbow Trout | 6,300 | 1954 | Rainbow Trout | 7,952 |
| 1992 | Rainbow Trout | 8,000 | 1967 | Rainbow Trout | 7,800 | 1953 | Brook Trout | 6,006 |
| 1991 | Rainbow Trout | 8,000 | 1966 | Rainbow Trout | 7,820 | 1953 | Rainbow Trout | 8,000 |
| 1990 | Rainbow Trout | 8,100 | 1965 | Rainbow Trout | 8,000 | 1952 | Brook Trout | 7,920 |
| 1989 | Rainbow Trout | 8,000 | 1965 | Brook Trout | 6,750 | 1952 | Rainbow Trout | 7,548 |
| 1988 | Rainbow Trout | 8,000 | 1964 | Brook Trout | 7,840 | 1951 | Brook Trout | 20,025 |
| 1987 | Rainbow Trout | 8,000 | 1964 | Rainbow Trout | 8,000 | 1950 | Brook Trout | 20,000 |
| 1986 | Rainbow Trout | 8,000 | 1963 | Brook Trout | 7,840 | | | |

AMPHIBIAN AND REPTILE SURVEY DATA SHEET - 2017

| | | | |
|---|--|--|--|
| Site ID: 13780 | Date: 7/30/19 | SKY: <input checked="" type="radio"/> Clear <input type="radio"/> Partly Cloudy <input type="radio"/> Mostly Over-Cloudy <input type="radio"/> Rain <input type="radio"/> Snow <input type="radio"/> Smoke | WIND: <input type="radio"/> Calm <input type="radio"/> Light <input checked="" type="radio"/> Moderate <input type="radio"/> Strong |
| Topo Name: (1:24,000) | County: El Dorado | Elevation: m ft | If not surveyed, provide reason: <input type="radio"/> Private Property <input type="radio"/> Frozen <input type="radio"/> Not Found <input type="radio"/> No Access |
| Surveyors: Nick Van Gilder, John Imperato, Cian Hettrick, Luc Mitchell | | Water Type: <input checked="" type="radio"/> Lake <input type="radio"/> Unmapped pond <input type="radio"/> Marsh/ meadow <input type="radio"/> Spring seep <input type="radio"/> Stream (Skip to "STREAMS" below) | |
| Lake Name: Rockbound Lake | East UTM: | North UTM: | UTM Zone: |
| Color: <input checked="" type="radio"/> Clear <input type="radio"/> Stained <input type="radio"/> Cloudy | Water (5 m from shore, Temp 10cm deep): 18.5 @ 1323 | Air (1 m above water): 24 @ 1321 | Site condition notes: |
| Survey START time: 1428 | Survey END time: 1539 | Total survey duration (min): 206 | HERPS SEEN? <input checked="" type="radio"/> YES <input type="radio"/> NO FISH SEEN? <input checked="" type="radio"/> YES <input type="radio"/> NO |
| *FOR LAKES/PONDS/MEADOWS: ALSO SURVEY FIRST 200 m OF ALL INLETS AND OUTLETS. RECORD DATA SEPARATELY IN THE "STREAMS" SECTION BELOW. | | | |
| Species | # adults | # subadults | # metamorphs |
| THSP | | 2 | |
| Calling? <input checked="" type="radio"/> Y <input type="radio"/> N | | | |
| | | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | | | |
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| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | | | |
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| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | | | |
| STREAM | | | |
| Inlet <input checked="" type="radio"/> Outlet (circle one) # 1 | Stream Type: <input type="radio"/> Perennial <input type="radio"/> Ephemeral | Stream Currently Dry? <input type="radio"/> Y <input checked="" type="radio"/> N | Intermittent? <input type="radio"/> Y <input type="radio"/> N |
| Start E UTM: 0739566 | N UTM: 4319516 | End E UTM: 0739584 | N UTM: 4319453 |
| Color: <input type="radio"/> Clear <input type="radio"/> Stained <input type="radio"/> NA | Turbidity: <input type="radio"/> Clear <input type="radio"/> Cloudy <input type="radio"/> NA | Herps Present? <input checked="" type="radio"/> YES <input type="radio"/> NO | |
| Start Time: 1422 | End Time: 1428 | Duration (min): 6 | Water Temp: 15.5 Air Temp: 21 |
| Inlet <input checked="" type="radio"/> Outlet (circle one) # 1 | Stream Type: <input type="radio"/> Perennial <input type="radio"/> Ephemeral | Stream Currently Dry? <input type="radio"/> Y <input checked="" type="radio"/> N | Intermittent? <input type="radio"/> Y <input type="radio"/> N |
| Start E UTM: 0738544 | N UTM: 4320281 | End E UTM: 0738505 | N UTM: 4320347 |
| Color: <input type="radio"/> Clear <input type="radio"/> Stained <input type="radio"/> NA | Turbidity: <input type="radio"/> Clear <input type="radio"/> Cloudy <input type="radio"/> NA | Herps Present? <input type="radio"/> YES <input type="radio"/> NO | |
| Start Time: | End Time: | Duration (min): | Water Temp: 17 Air Temp: 22 |
| Inlet <input type="radio"/> Outlet (circle one) # | Stream Type: <input type="radio"/> Perennial <input type="radio"/> Ephemeral | Stream Currently Dry? <input type="radio"/> Y <input type="radio"/> N | Intermittent? <input type="radio"/> Y <input type="radio"/> N |
| Start E UTM: | N UTM: | End E UTM: | N UTM: |
| Color: <input type="radio"/> Clear <input type="radio"/> Stained <input type="radio"/> NA | Turbidity: <input type="radio"/> Clear <input type="radio"/> Cloudy <input type="radio"/> NA | Herps Present? <input type="radio"/> YES <input type="radio"/> NO | |
| Start Time: | End Time: | Duration (min): | Water Temp: Air Temp: |
| Inlet <input type="radio"/> Outlet (circle one) # | Stream Type: <input type="radio"/> Perennial <input type="radio"/> Ephemeral | Stream Currently Dry? <input type="radio"/> Y <input type="radio"/> N | Intermittent? <input type="radio"/> Y <input type="radio"/> N |
| Start E UTM: | N UTM: | End E UTM: | N UTM: |
| Color: <input type="radio"/> Clear <input type="radio"/> Stained <input type="radio"/> NA | Turbidity: <input type="radio"/> Clear <input type="radio"/> Cloudy <input type="radio"/> NA | Herps Present? <input type="radio"/> YES <input type="radio"/> NO | |
| Start Time: | End Time: | Duration (min): | Water Temp: Air Temp: |
| Species | In/Outlet # | # adults | # subadults |
| | (circle one) # | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | IN | | |
| | OUT | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | IN | | |
| | OUT | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | IN | | |
| | OUT | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | IN | | |
| | OUT | | |
| Calling? <input type="radio"/> Y <input checked="" type="radio"/> N | IN | | |
| | OUT | | |
| Amphibians: S. Long-toed Salamander (AMMA); Yosemite Toad (ANCA, firmly BUCA); Sierran Treefrog (HYSI, firmly PSRE or HYRE); Sierra Nevada Yellow-legged Frog (RASI) Amph. less common in HML: CA Toad (ANBO, firmly BUBO); Bullfrog (RACT); Cascades Frog (RACA); CA Red-legged Frog (RADR); Sierra Newt (TASI, firmly TATO) Reptiles: Sierra Gartersnake (THEL); Mountain Gartersnake (THSI); Western Pond Turtle (EMMA, firmly CLMA) | | | |

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|--------------|--------------|---------|---------|--|
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| PHOTOS | Photo Number | Camera | Time | Date (yyyy-mm-dd) UTM E UTM N Comments |

Figure 4: VES data sheet from a survey conducted at Rockbound Lake (ID 13780) on July 30, 2019.

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: 7/31/19

SITE ID: 13780 Fish Survey Method: (circle one)
gill net hook and line e-fish Fish NOT captured? (circle one)
Y (N) (insert data below) Comments: "A" (Rockbound Lake)Description of net location (circle):
near inlet near outlet (other) Net Set Date: 7/31/19 Net set time (hhmm): 1945 Net Pull Date: 8/1/19 Net pull time (hhmm): 0748Electrofishing Location: Start coord. (downstream) End coord. (upstream) Start (hhmm): End (hhmm): On Time (sec):
(inlet or outlet #) E N E N

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|----------------|
| | | | | | Early | Ripe | Late | | |
| 1 | RT | 350 | 445 | F? | | | | | Released Alive |
| 2 | | 382 | 430 | F? | | | | | Released Alive |
| 3 | | 315 | 300 | M | | | | | |
| 4 | | 292 | 230 | M | | | | | |
| 5 | | 285 | 243 | F | X | | | | |
| 6 | | 283 | 204 | M | | | | | |
| 7 | | 280 | 202 | M | | | | | |
| 8 | | 261 | 188 | F | X | | | | |
| 9 | | 222 | 108 | F | X | | | | |
| 10 | | 218 | 93 | M | | | | | |
| 11 | | 212 | 88 | F | X | | | | |
| 12 | | 211 | 87 | M | | | | | |
| 13 | | 201 | 83 | M | | | | | |
| 14 | | 187 | 63 | F | X | | | | |
| 15 | | 174 | 55 | M | | | | | |
| 16 | | 160 | 47 | F | X | | | | |
| 17 | | 167 | 42 | M | | | | | |
| 18 | BN | 340 | 375 | M | | | | | |
| 19 | | 317 | 287 | F | X | | | | |
| 20 | | 300 | 250 | F | X | | | | |
| 21 | | 260 | 150 | M | | | | | |
| 22 | | 242 | 124 | F | X | | | | |
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Data Sheet 2, pg. 1 of 2

Figure 4, Con't: Gill net data sheet (Net A) from a survey conducted at Rockbound Lake (ID 13780) on July 31, 2019.

FISH SURVEYING *N. Van Gilder L. Mitchell J. Imperato, C. Hatfield*

Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) DATE: *7/31/19*

| | | | | | | | |
|--|--|--|--|---|--|---------------------------------|--|
| SITE ID: <i>13780</i> | | Fish Survey Method: (circle one) <input checked="" type="radio"/> gill net <input type="radio"/> hook and line <input type="radio"/> e-fish | | Fish NOT captured? (circle one) Y <input type="radio"/> N <input checked="" type="radio"/> (insert data below) | | Comments: <i>Net B, central</i> | |
| Description of net location (circle): near inlet <input type="radio"/> near outlet <input type="radio"/> <input checked="" type="radio"/> other | | Net Set Date: <i>7/31/2019</i> | | Net set time (hhmm): <i>1914</i> | | Net Pull Date: <i>8/1/2019</i> | |
| Location: <i>105</i> <i>739165 4319652</i> (inlet or outlet #) | | Start coord. (downstream) <i>9.1m depth</i> | | End coord. (upstream) | | Start (hhmm): | |
| | | | | | | End (hhmm): | |
| | | | | | | On Time (sec): | |

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|----------|
| | | | | | Early | Ripe | Late | | |
| 1 | RT | 376 | 470 | M | | | | | |
| 2 | | 354 | 430 | F | X | | | | |
| 3 | | 362 | 420 | F | X | | | | |
| 4 | | 359 | 380 | M | | | | | |
| 5 | | 351 | 406 | F | X | | | | |
| 6 | | 305 | 760 | M | | | | | |
| 7 | | 289 | 205 | M | | | | | |
| 8 | | 275 | 210 | F | X | | | | |
| 9 | | 262 | 158 | F | X | | | | |
| 10 | | 244 | 142 | F | X | | | | |
| 11 | | 250 | 148 | F | X | | | | |
| 12 | | 230 | 128 | F | X | | | | |
| 13 | | 248 | 134 | M? | | | | | |
| 14 | | 241 | 124 | F | X | | | | |
| 15 | | 212 | 92 | M | | | | | |
| 16 | | 215 | 92 | M | | | | | |
| 17 | | 197 | 78 | M | | | | | |
| 18 | | 179 | 68 | F | X | | | | |
| 19 | | 170 | 50 | F | X | | | | |
| 20 | | 112 | 13 | U | | | | | |
| 21 | | 97 | 7 | U | | | | | |
| 22 | | 96 | 8 | U | | | | | |
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Figure 4, Con't: Gill net data sheet (Net B) from a survey conducted at Rockbound Lake (ID 13780) on July 31, 2019.

SURVEYING N. Van Belder L. Mitchell

Trout: rainbow trout (RT), golden trout (GT), cutthroat trout (CT), brown trout (BN), brook trout (BK), hybrids (GT x RT, CT x RT) DATE: 7/31/19

| | | | |
|---|---|--|--|
| SITE ID: 13780 | Fish Survey Method: (circle one) gill net hook and line e-fish | Fish NOT captured? (circle one) Y N (insert data below) | Comments: Net C, eastern |
| Description of net location (circle one): near inlet near outlet other | Net Set Date: 7/31/19 | Net set time (hhmm): 1950 | Net Pull Date: 8/1/19 Net pull time (hhmm): 0740 |
| Electrofishing: Location: 105 739264 431972 (inlet or outlet #) | Start coord. (downstream): 6.3m depth ^E | End coord. (upstream): ^E | Start (hhmm): End (hhmm): On Time (sec): |

| Fish # | Species | Tot. Lgth (mm) | Weight (g) | Sex | Egg Stage (F only) | | | Otoliths? | Comments |
|--------|---------|----------------|------------|-----|--------------------|------|------|-----------|----------|
| | | | | | Early | Ripe | Late | | |
| 1 | BN | 314 | 305 | M | | | | | |
| 2 | BN | 310 | 330 | M | | | | | |
| 3 | BN | 317 | 285 | F | X | | X | | |
| 4 | BN | 236 | 162 | F | X | | | | |
| 5 | RT | 320 | 265 | M | | | | | |
| 6 | | 320 | 290 | M | | | | | |
| 7 | | 288 | 232 | F | X | | | | |
| 8 | | 265 | 181 | M | | | | | |
| 9 | | 257 | 154 | F | X | | | | |
| 10 | | 262 | 176 | M | | | | | |
| 11 | | 249 | 152 | F | X | | | | |
| 12 | | 256 | 158 | M | | | | | |
| 13 | | 250 | 146 | F | X | | | | |
| 14 | | 237 | 131 | M | | | | | |
| 15 | | 230 | 122 | M | | | | | |
| 16 | | 238 | 116 | F | X | | | | |
| 17 | | 220 | 102 | F | X | | | | |
| 18 | | 190 | 58 | M | | | | | |
| 19 | | 193 | 60 | F | X | | | | |
| 20 | | 194 | 70 | M | | | | | |
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Data Sheet 2, pg. 1 of 2

Figure 4, Con't: Gill net data sheet (Net C) from a survey conducted at Rockbound Lake (ID 13780) on July 31, 2019.