## 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

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## 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 threemile 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 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).

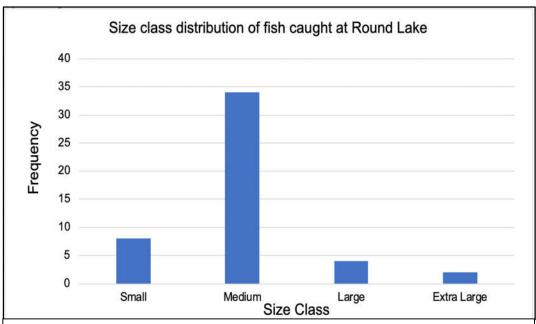
	Length	Size			Length	Size	
Species	(mm)	Class	Angler	Species	(mm)	Class	Angler
LCT	415	Large	1	LCT	250	Medium	4
LCT		Medium	1	LCT	254	Medium	5
LCT		Medium	1	LCT	203	Medium	5
LCT		Medium	1	LCT	292	Medium	5
LCT	215	Medium	1	LCT	216	Medium	5
LCT	280	Medium	2	LCT		Large	6
LCT	275	Medium	2	LCT		Large	6
LCT	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),

Angler

medium (151 mm-300 mm), large (301 mm-450 mm), extra-large (> 450mm).

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



**Figure 2:** Length frequency histogram of fish captured during a hookand-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.

Lanc, Li L	orado Co., iroin	1990 10 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.

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

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

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ere:	OK, Chinook Salman = CHIN, La EN, Brook Trout = BK, Lehonid indiah = MMYE  (NEAV Outle  OUT OF TO OUT OUT OUT OUT OUT OUT OUT OUT OUT	Dete: Stop: Species. Targeted: Length	Fin - Clipped  Y (R) Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N	Maria Maria de Cara de	Koksnee = Koksne	KOK, Chinook Salmon = CHIN, I = BN, Brook Troul = BK, Lahos hitofish = MAVF ROUND LAKE 1605 en 1605 en Specias Caught	Date: Stop: Species. Targeled: Total Length	Fin Clipped  V N  Y N  Y N  Y N  Y N  Y N  Y N  Y N	Kopk Y W Y N Y N Y N Y N Y N Y N Y N Y N Y N Y N
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**Figure 5:** Hook and line datasheet for Angler 3 for July 9-10, 2020 on Round Lake, El Dorado County.

rout: rai	nbow trout (	RT), golden trout (GT)	, cutthroat trout (CT				BK), hybrids	(GT x RT, C	T x RT)		7/09/202
ITE ID	Service Services	): Ramd Lal	<u>ಒಲ್ಲಿ</u> Method: (circle one)		Crew:		E:			Net dep	
1	4469			e-fish	(UTM N		N:	<b>Lastinista</b>		Y (insert data	below) N
ill Net		location (circle):	Net Set	-	Net set	-	Miles .	Net Pull		Net pull	
ear inlet		utlet other	Date: Start coord. (do	wnstream)	time (fiff	ord. (upstream)		Date: Start (hhmr	n):	time (bh End (hhmm):	On Time (sec):
léctrofis	shing <sub>∞.</sub>	particular de la company de la	and the same of th	тементо. Е	سنسر	and the same of th	E			1442	30min
-fisher S		nlet or outlet #)	Volts:	Hz:	include part or	Duty Gycle:		Pulse:	Marine p	Other	- September 2 Landson State Communication Co
						g Stage (F o	nly)			<u> </u>	
Fish#	Species	Tot. Lgth (mm)	Weight (g)	Sex	Early	Ripe	Late	Otoliths?	5-1	Comme	
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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.

rout: rai	nbow trout (RT)	, golden trout (GT),	cutthroat trout (CT)	brown tr	out (BN).	brook trout (	BK), hybrids	(GT x RT, CT x I	RT) D	ATE 07/09/2020
ita Name	o (if available)	Round La	he	Survey			ITS	,		et depth (m):
SITE ID:	4469	Fish Survey M	ethod: (circle one)		Net Loc	ation	E:	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Fish captur	ed? (circle one)
E SHEET	ान्छप		ok and line e	-fish	(UTM N		N:			data below) N
ear inlet	near outle	et other	Net Set Date:	-	Net set		and the same of th	Net Pull Date:		et pull ne (mmm):
	Loca	ition:	Start coord. (down	nstream)	End coo	ord. (upstream)		Start (hhmm):	End (hhmm	
lectrofis		or outlet #)	Www.companies.com	will. E		and the sponsor	E		1812	50 min
-fisher'S		60):	Volts:			Duty Cycle:		Pulse		Microsophia de America de Albanda de Appara.
		in			Eg	g Stage (F or	ıly)			
Fish#	Species	Tot. Lgth (mm)	Weight (g)	Sex	Early	Ripe	Late	Otoliths?	C	omments
1	LCT	1115		-				a management		
2	LCT	8.5			-			and the second s		
3										
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**Figure 7**: Second session hook and line datasheet for Angler 4 for July 9, 2020 on Round Lake, El Dorado County.

out: ra	inbow trout (RT),	golden trout (GT),				brook trout	BK), hybrids	(GT x RT, C	T x RT)			7/09/2020
te Nam	e (if available):	KOUNCI [	ethod: (circle one)		Crew:		E:		T <sub>F</sub>	ish car	Net dept	
	4469	gill net (fix	ook and line	e-fish	(UTM N		N:	and the second of the second			ert data	
III Net	The second secon	ation (circle):	Net Set		Net set	Actor materials	Marine .	Net Pull			Net puli	
ear inlet	near outle		Date: Start coord. (do		time (hh	mm): ord. (upstream)		Date: Start (hhmr	m): Is	ind (hh	time (hh:	nm): On Time (sec):
ectrofi		CION:	Start coord. (co	··· E		ria (upanean)	E			(-5)	45	thr 45mi
1,000	(inlet	or outlet #)		N.			N		_		75	(Mr( )W
TISHOF-	Settings (if need		Volta	Hz: _		Duty Cycle: g Stage (F o		Pulse:		Other:		The state of the s
Fish #	Species	Tot, Lgth (mm)-	Weight (g)	Sex	Early	Ripe	Late	Otoliths?			Commen	ts
1	LCT	(0)						- Married Marr	Lots	of	fish	feeding
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34		+		+	+	_	-	+	+			
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**Figure 8:** Third session hook and line datasheet for Angler 4 for July 9, 2020 on Round Lake, El Dorado County.

		golden trout (GT), o						(GT x RT, C	T x RT)			7/10/2020
ite Name		Round Later Fish Survey Me	thod: (circle one)	Survey	Orew: Net Loc	)TS	E:				Net depth tured? (cir	
1446	9	gill net (ho	ok and line e	-fish	(UTM NA		N:				ert data i	
Sill Net	General loca		Net Set	parison -	Net set		-	Net Pull	-		Net pull time (hhr	A STATE OF THE PARTY OF THE PAR
ear inlet	near outlet		Date: Start coord. (dow	nstream)	time (hh	erra;:		Date: Start (hhmn	n);	End (hhm		On Time (sec):
ectrofis	hing	THE REPORT OF THE PARTY OF THE	Management	E	16,000	CONTRACTOR CONTRACTORS	E N			090	- 1	Zhrs
-fisher S	ettings (if neede	or outlet #)	Volts:	N Hz:		Duty-Gyele:-	N	Pulse	NACO NACO NACO NACO NACO NACO NACO NACO	Other:	- Martine Colored	
	g- (	1	VOICO	112.32		g Stage (F onl	у)	i gjac.		oului.		
Fish #	Species	Tot. Lgth (mm)	Weight (g)	Sex	Early	Ripe	Late	Otoliths?			Comment	
1	LLT	10	***************************************	NO CHRONICE COMP.		tulli area terrena espera	dag si Carya Dajiya a siyawi ni	CONTRACTOR WAS	()n	<u>, 1</u>	£ish.	mught
2	UT	q	Professional Security States	************	attaches and the same of	CONTRACTOR OF THE PARTY OF THE	NEW YORK STATES	VSLIGHTS STERLEY	at	u do	wn.	most
3	LCT	8	(extraction continues or	MA THERMACON CONTRACTOR	Persinty Pichter	ensemble salventering	emplike scalinianist	SARON HANDERSON			On s	Heper
4	UT	q	- Sales and the Spiriters of	and the second second second	Michigan Colorado	ingstatem, recruitment (1944).	A CHARLES AND A	SONOTOLISTASSINA	DOLY	iksi.		· · · · · · · · · · · · · · · · · · ·
5	LLT	6	- GHLMH-IT-DAG	TO ASSESSMENT TO SERVE	SALUK CONSUMERA	ecoepe (menonely)	g-vital situate form	Asset materials -		·		
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**Figure 9:** Hook and line datasheet for Angler 4 for July 10, 2020 on Round Lake, El Dorado County.

ater: K	owne lake	Date:	04/0	9/202	)	Water:	Roundlake	1446 Date:	07/0	9/2020
rt:	3:40	n Stop:	5:10	em (pm)		Start:	18:30 cm	Stop:	2045	âm (mm)
gfors:	1 (P.B)	Species. Targeted:	LCt			No. Anglers:	(P.B)	Species. Targeled:	LC+	
Fish	Species	Total	Fin	1		Fish	Species	Total	Fln	1 1
No.	Caught	Longth	Cilpped	- /wj/		No.	Caught	Length	Clipped	Kept,
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4		M	Ϋ́Ψ	Y 1		4		CISPAN	Y 1	1 m
5		m	Υ.	Y 4		5		1	Y N	YN
6		m	Y 4	Y		В			ΥN	YN
7			YN	Y N .		7			Ϋ́N	Y N
8			YN	YN		8			Y. N	YN
10	The state of the s		Y N	YAN		10			YN	YN
11			ΥN	Y N		41	The state of the s	-	Y, N	YN
12			, Y , N	YN		12			YN	YN
13			Υ. N.	YW		13			Y N	Y N
14			Y: N	YN		14	· · .		Y. N	Y. N.
15			YN	YN		15			YR	YN
16			Y N	YN		18	:	-	. Y N	Y N
18			2Y N	YN		18		1	YN	YN
19			Y N	YN		19			Y N	YN
20			-:Y:-:N	Y'.N		20			Y N	YN
ocles Code anee = KO wn Trout = untain While ater:	ns: KK, Chincak Salmon = CHIN BN, Broak Traut = BK, Lein effsh = kNYF	L. Lake Trout = LT ontan Guttinogt To 14469 Date: 0	Reinbow Trout =   put = LCT, Golden	RT. Trout = GT.		Mountain Wh	(OK, Chinook Saimon = CHIN, = BN, Brook Trout = BK, Latio idelich = MWF	nlan Cuttiront	.T, Rainbow Trout = Trout = LCT, Golder	RT, Traut = GT,
anes = KO wit Trout = untain Whili ster:	KK, Chirouk Salmon = CHIN BN, Brouk Trout = BK, Lain effsh = MAYF 2 U.N. AKE	14469 Date: 0	Reinbow Trout = 1001 = LCT, Golden 7/10/20	W _		Kokunea = K Brown Trout Mountain Wh Water;	CM, Chinook Safmun = CHIN, = BN, Brook Trout = BK, Laho RikeGsh = MWF	Date:	T, Rainbow Trout = Trout = LCT, Golder	o Traut = GT,
anee = KO win Trout = untain While ster: R	KK, Chirouk Salmon = CHIN BN, Brouk Trout = BK, Lain effsh = MAYF 2 U.N. AKE	14469 Date: 0	Rainbow Trout = 1 rout = 1 CT, Golden 7/10/20 0900 LC+	20		Kokanee = K Brown Trout Mountain Wh	OK, Chinook Salmon = CHIN, = BN, Brook Trout = BK, Laho delich = WWF	Date:	T, Rainbow Trout = Trout = LCT, Golder	Traut = GT,
anee = KO wi Trout = untain While ster: R	MK, Chlorade Solition = CHIN BN, Broak Trout = BK, Leine effsh = MMF 2 and lake )620 an	14469 Date: 0  P Stop: C	Reinbow Trool = 1 out = LGT, Golden 7/10/20 0900   L C+	W _		Kokunea = K Brown Trout Mountain Wh Water: Start: No. Anglers:	COK, Chinook Safmun = CHIN, = BK, Laho BN, Bruck Trut = BK, Laho ideEsh = MAVF	Date: Stop: Species. Targeled:	Trout = £67, Golder	o Traut = GT,
anee = KC win Trout = untain While nter:  Query: Glers: Fish No.	IK, Chinade Salinon = CHAN BN, Broak Trout = BK, Leiw effsh = NAWF  2 U.A.   Ake  0620	Date: O  P Stop: C  Specier. Targeled:  Total Length	7/10/20 0900 LC+	CO pm		Kokanea = K Brown Trout Mountain Wh Water; Start:	CM, Chinook Safmun = CHIN, = BN, Brook Trout = BK, Laho RikeGsh = MWF	Date: Stop:	T, Rainbow Troot = Troot = LCT, Golder  First Chippert	o Traut = GT,
anes = KC mir Trout = ntain White mer:  plants:  plants:  Fish No.	K, Chlorodk Salmon = CHIN BN, Broak Trout = BK, Lein edish = MANF Dund ake 0620 an DD TRB	Date: O Date:	7/10/20 0900 LC+ Clipped Y N	CO pm		Kokunga = K Kokunga = K Mountain Wh Water: Start: No. Anglers:	COK, Chinook Safman = CHIN, = 9N, Brook Trout = BK, Laho aldelish = MAYF	Date: Stop: Species. Targeled:	Fin Clipped Y N	em em
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**Figure 10:** Hook and line datasheet for Angler 5 for July 9-10, 2020 on Round Lake, El Dorado County.

	1	4469			Cm <sup>14</sup>
7			19/20		Waster: Round lake Date: 7/9/20
Water:	1-1-	Date: 7	11.20		TOOLOGY AND THE CONTRACTOR OF THE AREA OF THE PARTY OF TH
Start:	1345	Stop:	1450	(PM)	Start: 1607 am stop: 1745 and
No. Anglers:	1 (EMH)	Species. Targeted:	LCT	-	No. Anglore: I (MH) Species. LCT
Fish No.	Species Caught	Total	Fin -		Fiels Species Total Fig
1	LCT	Length	Clippod Y(N)	Y (N)	No. Caught Length Clipped Kept  1 Y N Y N
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16	de la companya del companya del companya de la companya del la companya de la com	-	YN	YN	18 Y H Y N
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Species C Kokanes - Brown Tro Mountain N	= KOK, Chinook Salmon = CHN, La aut = BM, Brook Traut = BK, Lehontu Whitelish = MWF	an Cultimout T	r, Rainbow Trout = R	T.	Species Codes:  Kokansa = KOK, Chinook Salmon = CHIN, Lake Trout = L.T., Reliabow Trout = RT.,  Brown Trout = BN. Brook Trout = BK. Lehentan Collineval Trout = LCT, Golden Trout = GT,  Mountain Whitefash = MWF
Species C Kokenës = Brown Tro Mountain M	= KOK, Chinook Salmon = CHN, La aut = BM, Brook Traut = BK, Lehontu Whitelish = MWF	Date:	r, Rainbow Trout = R	T. Trout = GT.	Species Corlege:  Rokansa = KOM, Chinook Salmon = CHIN, Lake Trout = LT, Reinbow Trout = RT.  Brown Trout = Bn. Brock Trout = Bk. Laboritan Colfbout Trout = LCT, Golden Trout = GT,  Mountain Whitefalls = MWF  Water:  Date: 7/10/70  M/ 27 (mt) (mt) (2015 mm)
Species C Kokenes = Brown Tro Mountain N	= KOK, Chinook Salmon = CHN, La aut = BM, Brook Traut = BK, Lehontu Whitelish = MWF	an Cultimout T	r, Rainbow Trout = R	T.	Species Corleg:  Rokansa = KOK, Chinook Salmon = Ci-IIN, Lake Trout = L.T., Relation Trout = R.T.,  Brown Trout = BN, Brock Trout = BK, Lahordan Colfhout Trout = L.C., Golden Trout = G.T.,  Mountain Writefish = MWF  Water: Powned Lake Date: 7/10/20  Start: 1620 mm Stop: 1915 mm  No. Species. / C.+
20 Species C Kokanës = Brown Too Moimisin \ Water: Start No. Anglers:	= KOIK, Ghineok Salymon = CHIN, Little = BN, Trock Trust = BK, Leibonk Whiteefah = MWF  Round Lake  1838 Cap	Date: Stop: 2 Species. Targeted:	r, Rainbow Trout = R	T. Trout = GT.	Species Cardes:  Schapse = KOK, Chincok Salmon = CHN, Lake Trout = LT, Relation Trout = RT.  Shown Trout = Bh. Brock Trout = BK. Lakendan Coffinent Trout = LT, Relation Trout = GT, Mourials Whitefalls = Mark  Water:  Proval Lake Date: 7/10/20  Start: 60 90 60 Stop: 9915 and  No. Species.  Anglers: Species.  Targeled: LC+
Species C Kokenes = Brown Too Mountain V Water: Start: No. Anglars:	= KOK, Chinook Salmon = CHN, La aut = BM, Brook Traut = BK, Lehontu Whitelish = MWF	Date: Stop: 2 Species. Targeled: Length	Fin Clipped	Theel = GT,	Species Codes:  Rokansa = KOK, Chinook Salmon = CHIN, Lake Trout = L.T., Reinbow Trout = RT.  Brown Trout = Bh. Brook Trout = BK. Lehendan Celificout Trout = L.C., Golden Trout = GT,  Mountain Whitefain = MWF  Water:  Date: 7/10/20  Start: 89 915 and  Pin Stop: 8915 and  Pin Stop: L.C.+  Figh Species Total Fin Length Clipped Kopt
Species C Kokenes = Brown True Mountain V Water: Start: No. Anglers:	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop:	Fin Clipped	T. Trock = GT.	Species Codes:  Rokansa = KOK, Chincok Salmon = CHIN, Lake Trout = LT, Reinbow Trout = RT.  Brown Trout = Bh. Brock Trout = Bk. Lahordan Celificon Trout = LCT, Golden Trout = GT,  Mountain Whitefain = MWF  Water:  Date: 7/10/20  Start: 1620 and Stop: 170 and Stop: 170 and Stop: 170 and Species.  Anglers: Tairgeled: 170 and Species Total First Kopt  No. Caught Length Clipped Kopt  1: 155 nm y 60 y 60
Species C Kokenes = Brown Too Mountain V Water: Start: No. Anglars:	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeled: Length	Fin Clipped	Theel = GT,	Species Codes:  Rokansa = KOK, Chinook Salmon = CHIN, Lake Trout = L.T., Reinbow Trout = RT.  Brown Trout = Bh. Brock Trout = Bk. Lahordan Celffront Trout = L.C., Golden Trout = GT,  Mountain Whitefain = MWF  Water:  Date: 7/0/20  Start: 0/20 am  pm Stop: 0/15 am  pm Stop: 1/20 Am  No. Anglors: Total Fin Fin Roya
20 Species C Kokenes = Brown Tro Mountain V Water: Start: No. Anglors: Fleh No. 1 2 3 4	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date:	Fin Clipped Y (100)	Kept VN VN VN	Species Codes:  Rokansa = KOM, Chinook Salmon = CHIN, Lake Trout = L.T., Reinbow Trout = RT.  Brown Trout = BN, Brook Trout = BK, Laboritan Cetificout Trout = L.C., Golden Trout = GT, Mountain Whitefain = MWF  Water:  Water:  Date:  Date:  Pin Stop:  No.  Anglers:  Total  Fin Species  Total  No.  Caught  Length  Clapped Kopt  1   LSS n.M. Y GD Y N.  2   SS Y GD Y (L)
20 Species C Kokenés = Brown Tro Mountain V Water: Start: No. Anglors: Fleh No. 1 2 3 4 5	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped Y (100 Y (1	Kept VN) YN) YN	Species Cardes:  Schanse + KOK, Chincok Salmon = Ci-IIN, Lake Trout = L.T., Relation Trout = RT.  Shown Trout = BN, Brook Trout = BK, Lakendan Coffhout Trout = L.T., Relation Trout = GT, Mournate Whitefalls + MR.  Water:  Provide Lake Date: 7/10/20  Start: 60 90 60 80 80 915 80 80 80 80 80 80 80 80 80 80 80 80 80
Species C Kokanes = Brown Tro Mountain V Water: Start: No. Anglors: Fleh No. 1 2 3 4	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date:	Fin Clipped Y (100)	Kept Y (N) Y (N) Y (N) Y (R) Y (R)	Species Cardes:  Schools Cardes:  Start:  Species:  Anglers:  Species:  Total Fir:  No. Cassght Length Clipped Kapt  1 ISS AM Y SP Y SP  2 S Y SP Y SP  4 MM Y SP Y SP  5 Y N Y N Y N  5 Y N  5 Y N  6 Y N  7 N Y N  7 N  8 Y N  8 Y N  9
Species C Kakenes = Sruwi Tro Kakenes = Sruwi Tro Kolumian \ Water: Start No. Anglors:  Fleh No. 1 2 3 4 5 8	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Ctipped  Y (1)	Kept VN) YN) YN	Species Cardes  Schanse = KON, Chinock Salman = CHIN, Lake Trout = L.T., Relation Trout = RT.  Brown Trout = BN, Brook Trout = BK, Lake rean Certificout Trout = L.T., Soldier Trout = GT, Mountain Whitefair = MR.  Water: Remark Lake Date: 7/10/20  Start: 05 97 5 50pc 05 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Species C Kolemes - Brown Tro Mountain V Water: Start: No. Anglors: I S S S S S S S S S S S S S S S S S S	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Ctipped Y (B)	Kept VN YN YN YN N	Species Codes  Kokanse = KOM, Chinook Salmon = CHIN, Lake Trout = LT, Relation Trout = RT.  Brown Trout = BN, Brook Trout = BK, Labordan Codificout Trout = LCT, Soldien Trout = GT, Mountain Whitefair = MWF  Water: Round Lake Date: 7/10/20  Start: MSD Comp Stop: D915 and pill  No. Species. Total Fin  Kopt  Figh Species Total Chipped Kopt  1
Species C Kokense - Brown Tro Mountain V Water: Start: No. Anglors: I S S S S S S S S S S S S S S S S S S	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Citipod  Y (B)	Kept Y N Y K Y N Y N Y N N Y N	Species Codes  Kokunse = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Relation Trout = RT.  Brown Trout = Bh. Brock Trout = Bk. Laboritan Celffront Trout = LCT, Soldien Trout = GT, Mountain Whitefair = MWF  Water: Round Lake Date: 7/10/20  Start: 8 Species D9 15 and P11  No. Species Total Length Chipped Kopt  1 ISS n.M. Y Q Y N  2 S Y D Y N  4 MM Y B Y D  5 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  9 Y N Y N  9 Y N Y N  9 Y N Y N  10 Y N Y N  10 Y N Y N  10 Y N Y N
Species C Kolemes - Brown Tro Mountain V Water: Start: No. Anglors: I S S S S S S S S S S S S S S S S S S	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Ctipped Y (B)	Kept VN YN YN YN N	Species Codes  Robuses = KOW, Chinook Salmon = CHIN, Lake Trout = LT, Relation Trout = RT.  Brown Trout = BN, Brock Trout = BK, Laboritan Celffront Trout = LCT, Soldier Trout = GT, Mountain Whitefair = MWF  Water: Rown Lake Date: 7/10/20  Start: 85 Pecies Stop: 87 Phi  No. Anglors: 1 Species Total Length Capped Kopt  1 ISS nm Y D Y N  2 S Y D Y N  3 MM Y D Y N  4 MM Y B Y D  5 Y N Y N Y N  6 Y N Y N Y N  8 Y N Y N Y N  9 Y N Y N  10 Y N Y N  11 Y N Y N
20 Species C Knikanés - Florin Toron Mointain V Water: Start: No. Anglors: Fleh No. 1 2 3 4 5 6 7 8 9 10	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped Y R Y R Y R Y R Y R Y R Y R Y R Y R Y R	Kept YN Y KN Y RN Y N Y N Y N	Species Codes  Robans = KOK, Chinook Salmon = CHIN, Lake Trout = LT, Relation Trout = RT.  Brown Trout = Bh. Brock Trout = Bk. Laboritan Cellinout Trout = LCT, Soldien Trout = GT, Mountain Whitefain = MWF  Water: Brown Lake Date: 7/10/20  Start: Brown Stop: D915 and Philippin Stop: D915 and Phil
20 Species C Krikanes = Fram Tro Mointain V Water: Start: No. Anglors: Fish No. 1 2 3 4 5 8 7 8 9 10 11 12 13	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped  Y (B)	Kept YN YR YR YN YR YN YR YN YN YN YN YN YN	Species Carden:   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = CHN, Lake Treat = LT, Relation Trout = RT.   Shock Salmon = S
Species C Krikenes - Street No. Anglers:  Figh. No. 1 2 3 4 5 8 7 8 9 10 11 12 13 14 15	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped  Y (1)	Kept YN	Species Cardes   Schools Salmon = CHN, Lake Treat = LT, Relation Trout = RT.
Species C Krikanes Street No. Anglors:  Fish No. 1 2 3 4 5 8 7 8 9 10 11 12 13	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped  Y (B)	Kept YN YR YR YN YR YN YR YN YN YN YN YN YN	Species Cardes   Schanse = KOK, Chincok Salmon = CHIN, Lake Treat = LT, Relation Trout = RT.
20   Species C   Kinkennes   Street   Tro Monartain \	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Clipped Y (1)	Kept YN	Species Cardes   Schanse = KOK, Chincok Salmon = CHIN, Lake Treat = LT, Relation Trout = RT.
20   Species C   Kakenes	= KOIK, Ghineok Salmen = CHIN, Let ut = BN, Treds Trud = BK, Lebenta Whitefish = MWF Lower Lake 18 38	Date: Stop: 2 Species. Targeted: Longth S 245ma S S	Fin Ctipped  Y (1)  Y (1)  Y (2)  Y (3)  Y (4)  Y (4)  Y (4)  Y (5)  Y (6)  Y (7)  Y (8)	Kept Y N Y N Y N Y N Y N Y N Y N Y N Y N Y	Species Cardes   Schanse = KOK, Chinock Salmon = CHIN, Lake Treat = LT, Relation Trout = RT.

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

C	DFW High Mo	untain	Lake	s - Amphibi	an an	d Repti	ile Visu	al E	ncou	nter Surv	ey Data	Sheet		
Site ID: 14469		19/2		SKY:	(Clear)	Partly Cloudy	Mostly O Cloudy c		Rain S	inow Smoke	WIND: Ca	im (Light)	Moderate S	Strong
ppo Name: :24,000) P.00 N.	d Lake	County:	Eli	Dorado	Elevation ft	on:			provide	rveyed, reason:	Private Property	Frozen	Not Found ,	
	14,575,1	_TM					Water Type:	(	Lake	Unmapped pond	Marsh/ meadow	Spring seep	Stream (SI "STREAMS" o	
om man) ROJN	d Lake	East UTM: (	076	0087 :::	í:	: 27	North UTM:	Ч.	297	2 933			Zone:	ð_
olor: Clear Stained Water (.5 m from st urbidity: Clear Cloudy Temp 10cm deep			ore,	7 @ 1452	20° or	Air (1 m Temp	above 22 @145			1	ennial	Currently		
TAIST UIIIe. 1 1	Survey END time:			Total survey duration (min):	71	HERPS SEEN?	(YES	_	FISH SEEN?	(YES)		emeral	No.	<u>)                                    </u>
OR LAKES/PONDS	MEADOWS: ALSO S	SURVEY F		0 m OF INLETS A subadults	_	LETS, REC	_	A SEI arvae		#egg m.	#swabs		ON PG. 2 ey Method	
	# adults			4	# meta	morphs	# 16	arvae		p egg ni.	#SWabs	Visual	Trapped	
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alling? Y N	ł												Hand Colle Incidental	cted
SH SPECIES	(circle species seen, if	known): Bi	(brook tro	out), BN (brown trout	), CT (cutt	hroat trout),	GT (golden t	rout),	RT (rainb	ow trout) HYBR	ID (e.g., GT x	RT), OTHER	(e.g., minnov	vs)
PHOTOS Overview	Photo Number	LTM	1534	Date (yyyy-mmns-dd)	UTM E		UTM N			Commen		tho		
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Other	1502	<b>375</b>	1502		_		ļ			404 [	LT & 1	pace /L	R5	
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SITE SK	ETCH:		For a				1453 Tule Wan 1	3 - of e+5	1457 3 Cm Alder 1 Unsi 532-	urvey. Pho Baid eag outly in- prevention irveyable unsurveya	gle in I lermitten g surve (07602)	inle+ Pl + JTSF 1 · JTSF 13 · 429	10+0. -1503- -1525- 13034).	
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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.