State of California Department of Fish and Wildlife

Memorandum

Date: October 22, 2019

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

Department of Fish and Wildlife 1701 Nimbus Road, Suite A Rancho Cordova, CA 95670

Subject: Resource Assessment at Devil's Oven Lake, Nevada County

Devil's Oven Lake (Lake ID 12925), Nevada County, is a backcountry destination northwest of Truckee, CA, and seven miles from the Pacific Crest Trail at Donner Summit (**Figure 1**). The lake is the headwaters to North Fork Prosser Creek, and a tributary to Warren Lake, Prosser Creek Reservoir, and the Truckee River. Historically, Devil's Oven Lake was aerially planted by California Department of Fish and Wildlife (CDFW) with brook trout (*Salvelinus fontinalis*; BK) from 1950 until 1999. Golden trout (*Oncorhynchus aguabonita;* GT) were planted instead of BK from 1967 until 1981. CDFW surveyed the lake in 2004, and again in 2011, and found only BK, indicating GT did not persist in the absence of regular plants.

To determine the current status of the fishery at Devil's Oven Lake and if additional trout plants are warranted, two CDFW Scientific Aids surveyed the lake from September 11, 2019 to September 12, 2019. A monofilament gill net was set at 8:08 pm on September 11, 2019 and was pulled the following morning on September 12, 2019 at 7:11 am for a total survey effort of approximately 11 hours. The gill net sample captured ten BK (**Table 1**).

The Scientific Aids conducted a Visual Encounter Survey (VES) of the entire lake on September 11, 2019 searching for diurnal herpetofauna. The VES began at 3:40 pm under clear skies, calm wind, and an air temperature of 14° C. The survey continued until 4:05 pm for a total survey effort of 30 minutes. No herpetofauna were observed.



Figure 1: Map of Devil's Oven Lake, Nevada Co., (Red Pin) in relation to Lake Tahoe and Truckee, CA (Google Maps, retrieved 10.14.19)

BK persist and naturally reproduce in Devil's Oven Lake despite the lack of aerial planting for the past 20 years. Captured fish represent at least three year-classes. Individual fish exhibit good body condition indicating abundant food supply. For these reasons, there is little evidence supporting the need for additional aerial plants at Devil's Oven Lake.

The lake could be a potential target for mechanical fish removal to benefit Sierra Nevada yellow-legged frogs (*Rana sierrae*) or LCT, but it is not within the scope of this report to evaluate the basin for mechanical fish removal.

Table 1: Total length, weight, sex, and egg stage of fish captured during a gill net survey at Devil's Oven Lake, Nevada Co., on Sept. 11, 2019.

<u> </u>				
Species	Length (mm)	Weight (gm)	Sex (M/F)	Egg Stage
Brook Trout	280	240		
Brook Trout	282	210		
Brook Trout	142	195	F	Early
Brook Trout	167	170	М	
Brook Trout	185	230	F	Early
Brook Trout	180	225	F	Early & Late
Brook Trout	315	315	М	
Brook Trout	345	420	F	Early
Brook Trout	362	540	F	Early & Late
Brook Trout	380	510	F	Early & Late

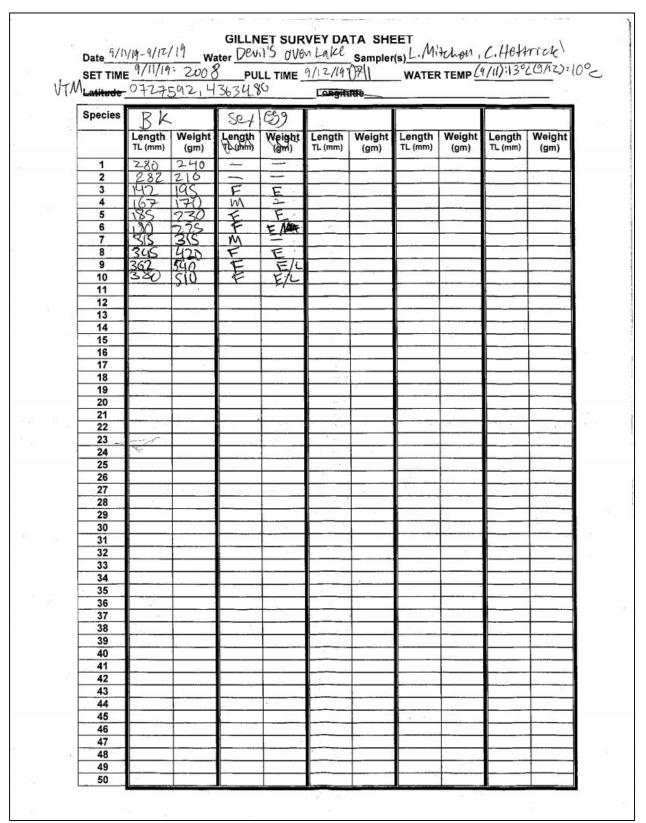


Figure 2: Data sheet with gill net data from a survey conducted Sept. 11, 2019, at Devil's Oven Lake, Nevada County.

Site ID:		Date: 0	/11/19	skes - Amphib	Clear Partly Cloudy	Mostly Ove	r- Rain Sno				Moderate Strong
Topo Name:	:		County:		Elevation:	Cloudy cas	If not sur		Private	Frozen	Not No
1:24,000) Surveyors:	1 1/1	tchell, C	. Heth	714	m ft	Water	provide re		Property Marsh/	Spring	Found Access Stream (Skip to
ake Name:				CA.		Type:			meadow	seep	"STREAMS" on pg. 2)
from map)	Devil	5 Oven Lake	East UTM:			North UTM:					UTM Zone:
Color Clea		100 mm (100 mm)	m from shore, 0cm deep):	16 0 53		1 m above	4015	77 Cor	Seaso		Currently Dry?
Survey	TEL	Survey	1105	Total survey	F Temp	water):	FISH	(YES	Pere		Yes
FOR LAKE		END time	E V V	duration (min):	SEEN	NO NO	SEEN?	NO	Ephe		. No
ERP SPEC	CIES	# adults	SURVET FIRS	T 200 m OF INLETS # subadults	# metamorphs			y IN THE "S	#swabs		ON PG. 2 ey Method
									Paweros	Visual	Trapped
Calling? Y	N			1	1					Aurai	Hand Collected
				1	111	1				Amp Net Visual	Incidental Trapped
Calling? Y	N									Aural	Hand Collected
				1	X	1				Amp Net Visual	Incidental Trapped
alling? Y	N									Aural	Hand Collected
	"					1				Amp Net Visual	Incidental Trapped
Calling? Y	N				1					Aural	Hand Collected
						-		+		Amp Net Visual	Incidental Trapped
Calling? Y	N									Aural	Hand Collected
										LESS CONTRACTOR OF THE PARTY OF	
Reptiles: Sie	ES s: S. Long-t common i erra Garten	toed Salamander (A in HML: CA Toad (A snake (THCO); Mou Phote Number	AMMA); Yosem AMBO, frmly Bl untain Gartersn Carnora Ti	ite Toad (ANCA, first UBO); Bulfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog iartersnake (THSI	Treefrog (HYSI, (RACA); CA Re ; Western Pond	frmly PSRE of d-legged Fro Turtle (EMM	or HYRE); Si	ierra Nevada Sierra Newt (MA)	RT), OTHER	(DAO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t common i erra Garten	toed Salamander (A in HML: CA Toad (A snake (THCO); Mou	AMMA); Yosem AMBO, frmly Bl untain Gartersn Carnora Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran I); Cascades Frog iartersnake (THSI	Treefrog (HYSI, (RACA); CA Re ; Western Pond	frmly PSRE of d-legged Fro Turtle (EMM	g (RADR); Si g (RADR); S A, Irmly CLN	ierra Nevada Sierra Newt (AA)	RT), OTHER	R (e.g., minnows) legged Frog (RASI) ly TATO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t common i erra Garten	toed Salamander (A in HML: CA Toad (A snake (THCO); Mou Phote Number	AMMA); Yosem AMBO, frmly Bl untain Gartersn Carnora Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog iartersnake (THSI	Treefrog (HYSI, (RACA); CA Re ; Western Pond	frmly PSRE of d-legged Fro Turtle (EMM	g (RADR); Si g (RADR); S A, Irmly CLN	ierra Nevada Sierra Newt (AA)	RT), OTHER a Yellow-le (TASI, frmi	R (e.g., minnows) legged Frog (RASI) ly TATO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t common i erra Garten PHOTOS	toed Salamander (A in HML: CA Toad (/ snake (THCO); Mor. Photo Number (C i a n*3 Physic	AMMA); Yosem AMBO, frmly Bl untain Gartersn Carnora Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog artersnake (THSI UTM E	Treefrog (HYSI, (RACA); CA Re ;; Westem Pond	fmly PSRE of d-legged Fro Turtle (EMM	g (RADR); Si g (RADR); S A, Irmly CLN	ierra Nevada Sierra Newt (AA)	RT), OTHER a Yellow-le (TASI, frmi	R (e.g., minnows) legged Frog (RASI) ly TATO)
Amphibians Amph. less Reptiles: Sic	ES s: S. Long-t common i erra Garten PHOTOS	toed Salamander (A in HML: CA Toad (A snake (THCO); Mou Phote Number	AMMA); Yosem AMBO, frmly Bl untain Gartersn Carnora Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog artersnake (THSI UTM E	Treefrog (HYSI, (RACA); CA Re ; Western Pond	fmly PSRE of d-legged Fro Turtle (EMM	or HYRE); Si g (RADR); S A, Imily CLM Comment	ierra Nevada Sierra Newt (AA)	RT), OTHER a Yellow-le (TASI, frmi	R (e.g., minnows) gged Frog (RASI) iy TATO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t- common i erra Garter HOTOS overview	toed Salamander (A min HML: CA Toad (A snake (THCO); Mos (THCO); M	MMMA); Yosem ANBO, fmily Bl untain Gartersn Carnors Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog artersnake (THSI UTM E	Treefrog (HYSI, (RACA); CA Re; (Western Pond	fmly PSRE of d-legged Fro Turtle (EMM)	Comment	CASCA	RT), OTHER a Yellow-le (TASI, frm)	R (e.g. minnows) gged Frog (RASI) ly TATO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t common i erra Garter HOTOS Overview Herps District	toed Salamander (A min HML: CA Toad (A snake (THCO); Mos (THCO); M	MMMA); Yosem ANBO, fmily Bl untain Gartersn Carnors Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog artersnake (THSI UTM E	Treefrog (HYSI, (RACA); CA Re; (Western Pond UTN N H 36 3	Imily PSRE of delegged Front Turtle (EMM)	pr HYRE; Sig (RADR); Sig (RADR	CASCA	RT), OTHER a Yellow-le (TASI, frm)	R (e.g. minnows) ogged Frog (RASI) by TATO)
Amphibians Amph. less Reptiles: Sie	ES s: S. Long-t common i erra Garter HOTOS Overview Herps District	toed Salamander (A min HML: CA Toad (A snake (THCO); Mos (THCO); M	MMMA); Yosem ANBO, fmily Bl untain Gartersn Carnors Ti	ite Toad (ANCA, fml UBO); Bullfrog (RACT lake (THEL); Valley G	y BUCA); Sierran (); Cascades Frog artersnake (THSI UTM E	Treefrog (HYSI, (RACA); CA Re; (Western Pond UTN N H 36 3	fmly PSRE of d-legged Fro Turtle (EMM)	pr HYRE; Sig (RADR); Sig (RADR	CASCA	RT), OTHER a Yellow-le (TASI, frm)	R (e.g. minnows) ogged Frog (RASI) by TATO)

Figure 3: VES data sheet from a survey conducted Sept. 11, 2019, at Devil's Oven Lake, Nevada County.

TREAM					Control -			1100	Intermitten	12 Y	N
nlet Outlet (circle one) #	1 Stream	m Type: Perent	nial	Ephemeral	Stream Curre	ntly Dry?	Y	N Color:	Clear	Stained	NA.
	1.1-	363551	End		UTM N:		- 1	Turbidity:	Clear	Cloudy	NA.
TME 0727579			UTM E	2 Water Ter		Air Temp:		BARRIER	RS (fill out	info belov	v)*
tart Time: 550	Che Lune:	52 Duration	-	UTM E:		L	ITM N:				
ish present?	Barrier 1)	Photo #'s:	551)	Description:	107						_
YW	In the 20	Photo #'s	-	UTM E:		ı	JTM N:				_
lerps present?	Barrier 2)	Prioro + s		Description:							_
Y (N)	Barrier 3)	Photo #s:		UTM E:			JTM N:				
Spawning evidence? Spawning / Redds / Fry / None	1	13043424341		Description:			- 4	N	Intermitte	nt? Y	N
Inlet Outlet (circle one)		am Type: Perer	_	Ephemeral	Stream Curre	ently Dry?	- Y	Color:	Clear		NA
Start	111-222000000		End UTM E	DATE	UTM N:			Turbidity:		Cloudy	NA
JTM E:	UTM N:	Duration	-	Water To	THE STREET	Air Temp:		*BARRIE	RS (fill out	info belo	w)*
Start Time:	End Time:		a (min):	UTM E:			UTM N:				
Fish present?	Barrier 1)	Photo #'s:		Description:							_
Y N	Barrier 2)	Photo #'s:		UTM E:			UTM N:				
Herps present?	Darrier 2)	Barrier 2) Photo # 5.		Description:							
	Barrier 3)	Photo #'s:		UTM E:			UTM N:				
Spawning evidence? Spawning / Redds / Fry / Non-	THE THE RESERVE	mester—		Description:	Total and the second		Y	N	Intermitte	nt? Y	N
Inlet Outlet (circle one)	160	am Type: Pere	_	Ephemeral	Stream Curr	rently Dry?		Color:	Clear		NA
Start	1046630		End		UTM N:			Turbidity			N/
UTM E:	UTM N:	no.	uTM E	Water T		Air Temp:		*BARRIE	RS (fill ou	t info belo	w)*
Start Time:	End Time:	Photo #'s:	on family	UTM E:			UTM N:				_
Fish present?	Barrier 1)	Pridio # a.		Description:							_
Y N	Barrier 2)	Photo #'s:		UTM E:			UTM N:				_
Herps present? Y N	Barrier 2)			Description:			Total Control				
Spawning evidence?	Barrier 3)	Photo #'s		UTM E:			UTM N:				
Spawning / Redds / Fry / No	ne:			Description:			-	N	Intermitt	ent? Y	N
Inlet Outlet (circle one		THE SHOP SHOW SHAPE					179				14.5
Hiller Odrier female and)#Str	eam Type: Pan	ennial	Ephemeral	Stream Cui	rrently Dry?	,	Color:	Clea	r Stained	_
Start		eam Type: Pan	End		Stream Cur UTM N:	rrently Dry?		Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E:	UTM N:	oan ijja	_		UTM N:	Air Temp:		Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E: Start Time:	UTM N: End Time:	Durati	End	E.	UTM N:	Air Temp:	UTM N:	Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E: Start Time: Fish present?	UTM N:	oan ijja	End	E. Water	UTM N:	Air Temp:	UTM N:	Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E Start Time: Fish present? Y N	UTM N. End Time: Barrier 1)	Durati	End	E. Water	UTM N:	Air Temp:		Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E Start Time: Fish present? Y N Herps present?	UTM N: End Time:	Durati Photo #5:	End	Water UTM E: Description: UTM E: Description:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E: Start Time: Fish present? Y N Herps present? Y N	UTM N. End Time: Barrier 1)	Durati Photo #5:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N:	Color: Turbidity	Clea	r Stained ar Cloudy	N
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redds / Fry / No	End Time: Barrier 1) Barrier 2) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity	Clear Clear ERS (fill or	r Stained ar Cloudy ut info beli	Now)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redds / Fry / No HERP SPECIES	Barrier 1) Barrier 2) Barrier 3)	Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	r Stained ar Cloudy ut info belo vey Method Trapped	Now)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning v Redds / Fry / No HERP SPECIES	End Time: Barrier 1) Barrier 2) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear Cless (fill or Cless Sur Visual Aural	r Stained ar Cloudy ut info beli	Now)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning 1 Redds / Fry / No HERP SPECIES	Barrier 1) Barrier 2) Barrier 3) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear Cless (fill or Cless Sur Visual Aural	vey Method Trapped Hand Co t Incidenta	NOW)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redas / Fry / Not HERP SPECIES [carding] IN Calling? Y N OUT	Barrier 1) Barrier 2) Barrier 3) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear Clear Still on Start Visual Aural Au	vey Method Trapped Hand Co t Incidents Trapped Hand Co Hand Co	NOW)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning 1 Redds / Fry / No HERP SPECIES IN Calling? Y N OUT torck	Barrier 1) Barrier 2) Barrier 3) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co ti Incidenta Trapped Hand Co	NOW)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning avidence? Spawning J Redds / Fry / No HERP SPECIES Icrobia IN Calling? Y N OUT Calling? Y N OUT	Barrier 1) Barrier 2) Barrier 3) Barrier 3) Barrier 3) Barrier 3	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear Clear Still on Start Visual Aural Au	vey Method Trapped Hand Co t Incidents Trapped Hand Co Hand Co	N N N N N N N N N N N N N N N N N N N
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redas / Fry / No HERP SPECIES Icerate IN Calling? Y N OUT Catling? Y N OUT Calling? Y N OUT Icerate IN	Barrier 1) Barrier 2) Barrier 3) Barrier 3) Barrier 3) Barrier 3) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co ti Incidenta	Now)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redds / Fry / No HERP SPECIES [erisk IN Calling? Y N OU (ord IN Calling? Y N OU (circl IN) Calling? Y N OU	Barrier 1) Barrier 2) Barrier 3) In/Outlet # Page 2009 # T T Barrier 3	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co Incidenta Trapped Hand Co Incidenta Trapped Hand Co Incidenta Trapped Hand Co Incidenta Trapped Incidenta Trapped Incidenta Trapped Incidenta Trapped Incidenta Trapped Incidenta Trapped Incidenta	Now)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning J Redds / Fry / No HERP SPECIES In Calling? Y N OUT Contains In Calling	Barrier 1) Barrier 2) Barrier 3) Barrier 3) Barrier 3) Barrier 3) Barrier 3)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	w Stained r Cloudy t info belo vey Method Trapped Hand Co t Incidenta Trapped Hand Co ti Incident Trapped Hand Co ti Incident Trapped Hand Co ti Incident	Now)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redds / Fry / No HERP SPECIES Calling? Y N Calling	Barrier 1) Barrier 2) Barrier 3) Barrier 4) Barrier 4) Barrier 5) Barrier 5) Barrier 7) Barrier 7) Barrier 7) Barrier 9)	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co ti Incidents Trapped Hand Co ti Incidents Trapped	Now)*
Start UTM E	Barrier 1) Barrier 2) Barrier 3) In/Outlet # sons # If to one) #	Photo #'s: Photo #'s:	End	UTM E: Description: UTM E: Description: UTM E: Description: UTM E:	UTM N:	Air Temp:	UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co tincidenta	Now)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redds / Fry / No HERP SPECIES Leating Calling? Y N OUT Calling	Barrier 1) Barrier 2) Barrier 3) Barrier 4) Barrier 4) Barrier 4) Barrier 5) Barrier 5) Barrier 5) Barrier 5) Barrier 6) Barrier 7) Barrier 7) Barrier 7) Barrier 8) Barrier 8) Barrier 8) Barrier 8) Barrier 9)	Photo #'s: Photo #'s: Photo #'s: # adults	End UTM ion (min):	UTM E: Description: UTM E: Description: #subadults	UTM N:	Air Temp:	UTM N: UTM N: UTM N:	Color: Turbiditi; *BARRI	Clear	vey Method Trapped Hand Co ti Incidenta Trapped	Now)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning avidence? Spawning / Redds / Fry / No HERP SPECIES Calling? Y N OUT Calling	Barrier 1) Barrier 2) Barrier 3) Barrier 3) In/Outlet # Frame one) # Trans w one) #	Photo #'s: Photo #'s: Photo #'s: # adults	End UTM Noon (min):	Water UTM E: Description: UTM E: Description: UTM E: Description: #subadults	UTM N: Temp: #restamorph:	Air Temp:	UTM N: UTM N: UTM N:	Color: Turbidity *BARRI	Clear	vey Method Trapped Hand Co Incidenta	NOW)*
Start UTM E: Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning / Redas / Fry / No HERP SPECIES Calling? Y N OUT Calling	Barrier 1) Barrier 2) Barrier 3)	Photo #'s: Photo #'s: Photo #'s: # adults	End UTM Non (min):	Water UTM E: Description: UTM E: Description: UTM E: Description: #subadults	UTM N: Temp: #metamorph #metamorph double Till #metamorph #metamorph #metamorph #metamorph	Air Temp:	UTM N: UTM N: UTM N:	Color: Turbidit) *BARRI *BARRI *#swat	Clear	vey Method Trapped Hand Co Incidents Trapped	NOW)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning 1 Redds / Fry / No HERP SPECIES In Calling? Y N OU Carrier IN Calling? Y N OU FISH SPECIES Amphibians S Amph. less cor	Barrier 1) Barrier 2) Barrier 3) In/Outlet # Parrier 3)	Photo #'s: Photo #'s: Photo #'s: Photo #'s: # adults # adults fowm: BK (brook trout), Ser (AMMA); Yosemite oad (ANBO, frmiy BUB	End UTM On (min): BM (brown Toad (AN) Oo); Bullfro	Water UTM E: Description: UTM E: Description: UTM E: Description: #subadults Itiout), CT (authroat) CA, firmly BUCA), Se g (RACT), Cascades	JTM N: Temp: #mutamorph #mutamorph #man Treelrog (HY Frog (RACA); CA	Air Temp: s larvae s larvae rout), RT (rainboo SI, fmily PSRE o Red-legget Fm and Turtle EMM	UTM N: UTM N: UTM N: UTM N: # egg m. # egg m.	Color: Turbidit) *BARRI *BARRI #swat #swat Sierra Neva Sierra Neva MA	Clear	vey Method Trapped Hand Co Incidents Trapped	Now)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning 1 Redds / Fry / No HERP SPECIES In Calling? Y N OU Carrier IN Calling? Y N OU FISH SPECIES Amphibians S Amph. less cor	Barrier 1) Barrier 2) Barrier 3) In/Outlet # Parrier 3)	Photo #'s: Photo #'s: Photo #'s: Photo #'s: # adults # adults fowm: BK (brook trout), Ser (AMMA); Yosemite oad (ANBO, frmiy BUB	End UTM On (min): BM (brown Toad (AN) Oo); Bullfro	Water UTM E: Description: UTM E: Description: UTM E: Description: #subadults Itiout), CT (authroat) CA, firmly BUCA), Se g (RACT), Cascades	JTM N: Temp: #mutamorph #mutamorph #man Treelrog (HY Frog (RACA); CA	Air Temp: s larvae s larvae rout), RT (rainboo SI, fmily PSRE o Red-legget Fm and Turtle EMM	UTM N: UTM N: UTM N: UTM N: # egg m. # egg m.	Color: Turbidit) *BARRI *BARRI #swat #swat Sierra Neva Sierra Neva MA	Clear	vey Method Trapped Hand Co Incidenta Inciden	Now)*
Start UTM E Start Time: Fish present? Y N Herps present? Y N Spawning evidence? Spawning 1 Redds / Fry / No HERP SPECIES In Calling? Y N OU Carrier IN Calling? Y N OU FISH SPECIES Amphibians S Amph. less cor	Barrier 1) Barrier 2) Barrier 3)	Photo #'s: Photo #'s: Photo #'s: Photo #'s: # adults # adults for (AMMA), Yosemite oad (ANBO, fmilly BUB), Mountain Garlersnakian, California Departm	End UTM On (min): BM (brown Toad (AN) Oo); Bullfro	Water UTM E: Description: UTM E: Description: UTM E: Description: #subadults Itiout), CT (authroat) CA, firmly BUCA), Se g (RACT), Cascades	JTM N: Temp: #mutamorph #mutamorph #man Treelrog (HY Frog (RACA); CA	Air Temp: s larvae s larvae rout), RT (rainboo SI, fmily PSRE o Red-legget Fm and Turtle EMM	UTM N: UTM N: UTM N: UTM N: # egg m. # egg m.	Color: Turbidit) *BARRI *BARRI #swat #swat Sierra Neva Sierra Neva MA	Clear	vey Method Trapped Hand Co Incidenta Inciden	Now)*

Figure 3, Con't: VES data sheet from a survey conducted Sept. 11, 2019, at Devil's Oven Lake, Nevada County.