

Spivey Pond

Gill net (Floating) set @ 17:00
collected @ 10:00

May 14, 1998
S. Lehr

May 15 $T_w = 48^\circ F @ 17:00$
 $T_a = 45^\circ F @ 17:05$
 $T_w = 48^\circ F @ 11:00$
 $T_a = 54^\circ F @ 11:05$

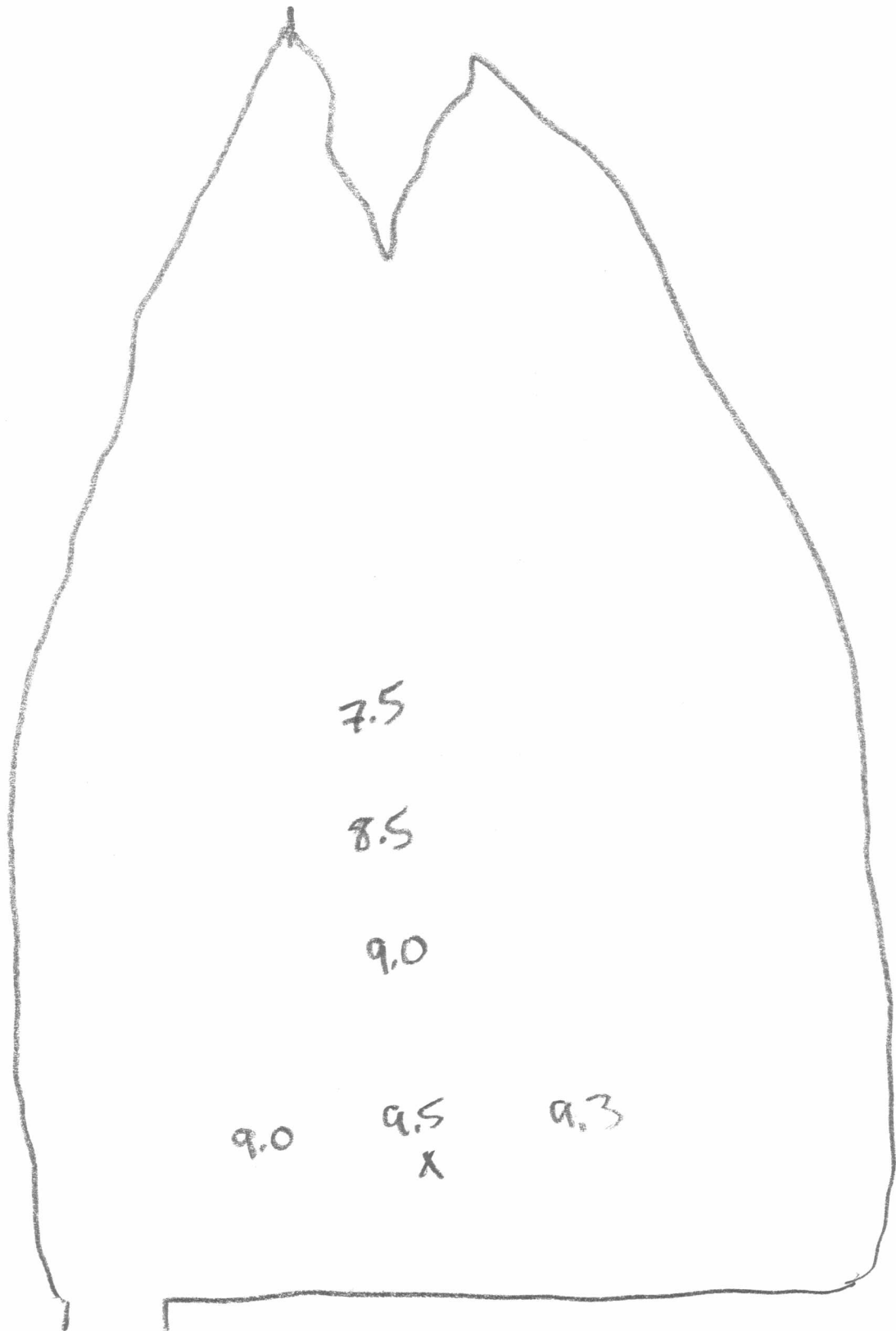
mayflies
daphnia
odonata

Fish SPP (mm) ← FL		Length (mm)	WT (g)
246	230	R.T	160

Gill nets (sink) set @ 10:30 May 15, 1998
float set @ 10:00
nets will continue to fish till Monday morn.

sink collected @ 09:30 May 18, 1998
float collected @ 09:50 May 18, 1998

1 Tanicha torosa in floating net
 $T_w = 48^\circ F @ 10:00$ $T_{air} = 60^\circ F @ 10:20$



7.5

8.5

9.0

9.0

9.5
x

9.3

Memorandum

To: Mr. Patrick O'Brien
Senior Fisheries Biologist

Date: May 28, 1998

From: Department of Fish and Game - Region 2

Subject: Spivey Pond Land, North Fork Weber Creek, El Dorado County gill net sampling.

Spivey Pond is one of two locations in the Sierra Nevada that contains breeding populations of California red-legged frog (*Rana aurora draytonii*). The pond and surrounding 50 acres is currently being purchased by a coalition of Federal, State and nonprofit organizations. One question that had not been answered to date, was whether there were any fish species present in the pond. Concerns were voiced that there could possibly be Centrarchids present in the pond. Centrarchids are present in Weber Reservoir approximately 6 miles downstream on the North Fork Weber Creek.

One floating monofilament gill net was set in Spivey Pond on May 14, 1998 at 17:00 hours and was checked on May 15, 1998. There was one rainbow trout (*Oncorhynchus mykiss*) found in the net. As a result of this a second bottom monofilament gill net was set and both nets were left in the pond and were allowed to fish for three days. Both nets were collected on May 18, 1998 at 09:30 and 09:50. The total set time for the floating net was 86.8 hours and 71.0 hours for the bottom net. No additional fish were caught. One California newt (*Taricha torosa*) was entangled in the floating net and it was released unharmed.

The presence of rainbow trout was not unexpected as the previous owners had stated that they had planted rainbow trout in the past. Another possibility is that there could be a population upstream. Sexually mature fish could have migrated out of the pond to upstream spawning areas and thus resulting in only one adult fish being caught. The watershed upstream of the pond is very small and the inlet is perennial for a very short distance. Therefore, the probability that a resident population is present upstream of the pond is considered low. The spillway/dam located on the north side of the pond precludes any upstream migration of resident trout from downstream. Additional gill net surveys will be conducted in the fall when inflow is minimal or nonexistent to provide additional verification of the presence/absence of fish in the pond.

Gill Net results:

Rainbow trout: 246 mm total length / 230 mm fork length
160 grams

Stomach contents: mayflies, daphnia, and dragonflies

Water temperatures: May 14, 1998 48 °F @ 17:00
May 15, 1998 48 °F @ 11:00
May 18, 1998 48 °F @ 10:00

Air Temperatures: May 14, 1998 45 °F @ 17:05
May 15, 1998 54 °F @ 11:05
May 18, 1998 60 °F @ 10:00



Stafford Lehr
Fishery Biologist