



Wildlife Survey & Photo Service

2443 Fair Oaks Blvd. # 209 • Sacramento, CA 95825 • (916) 747-8537

Report 4190

July 8, 2012

To: Chris Lee, SCWA
Rich Marovich, LPCCC

Regarding: Project Update



Baetis mayfly. Important prey for Putah Creek wildlife.



River Parkway from Winters Bike Bridge on 7/7/12



River Parkway Crossing near Neil Property



Glossosoma caddisfly larvae that left their protective rock cases.

River Parkway Restoration Project - Images

Sequential images are taken from the Winters Bike Bridge and the Perc Dam Weir to document significant changes in the project area. All images available upon request.

I also capture video footage and /or images of significant events for possible use in 2-3 minute promotional video of the Project.

River Parkway Restoration Project - Invertebrates

Invertebrates continue to colonize the project area, the most significant being in the riffles. Routine monitoring is conducted on a regular basis approximately every 30 days at ten sites in the project area.

River Parkway Restoration Project - Invertebrates

Glossosoma is possibly the most important indicator of a successful project if a goal is to improve the restoration section for trout. Due to it's lack of gills, the larvae prefer cool, swift-moving water.

In established areas, *Glossosoma* is 70-80% of the invertebrate community and does not appear to be affected by high densities of New Zealand Mudsnails. They have two distinct "hatches" per year and are important forage for aquatic and riparian wildlife.



Glossosoma larva in tortoise-shaped case.

River Parkway Restoration Project - Invertebrates

Glossosoma - a.k.a. tortoise-case caddis - use small rocks, and frequently NZMS shells, to construct small protective cases.



Pickerel Riffles - Main Channel

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The main channel below the Pickerel Weir is highly productive (invertebrates), but is NOT as productive or diverse as the smaller side channel on the north side of the creek.



Pickerel Riffles - side channel facing upstream

Pickerel Riffles - North Channel

Per square meter, the north channel supports almost twice the number of invertebrates and is slightly more diverse than the main channel.



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Capell Launch Ramp - 6/12/12



Watercraft Inspection 7/7/12 at Capell Launch Ramp



Trout parr - Steele Canyon Creek



Capell creek

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Lake Berryessa - Capell Public Launch Ramp

The Capell Public Launch Ramp remains a significant entry into Lake Berryessa for watercraft that are not inspected for mussels. Limited data from the SCWA-funded SRCD (Marianne Butler) is now available. The data clearly shows the vulnerability of lake and need for a self-certification program or something similar.

Lake Berryessa - Watercraft Inspections

At the request of Marianne Butler, I continue to work with her staff on watercraft inspection and the development of educational materials for boaters.

Wild Trout - Lake Berryessa tributaries

Originally funded by the Rumsey Community Fund, I continue to work on the invertebrate community in the historic Putah Creek drainage. I accidentally found a significant population of trout parr in an intermittent tributary of Capell Creek.

Wild Trout - Lake Berryessa tributaries

Capell Creek also supports an undetermined number of wild trout. I occasionally catch them when conducting invertebrate surveys in the creek.



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Markley Marina Gas Pump Dock

Early Detection & Education Plan for Eurasian Mussels - Solano Project

The California Department of Fish & Game has "accepted" the Solano Project Mussel Plan which will be reviewed for appropriate changes on a quarterly basis.

Transmitted via e-mail on July 11, 2012

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