



Laughlin Town Advisory Board

August 11, 2020

MINUTES

Board Members: Gina Mackey – Chair- Nile Smith-unexcused absence
Kathy Ochs – Vice Chair – absent Herman Walker
James Maniaci

Secretary: Tammy Harris, (702) 298-0828 tammy.harris@clarkcountynv.gov

Town Liaison: Mark Robledo, (702) 298-0828 Mark.robledo@clarkcountynv.gov

- I. Call to Order by Chair Gina Mackey, Invocation by Pastor Doug Westly, Pledge of Allegiance led by Herm Walker.
- II. Public Comment: None
- III. Approval of Minutes for July 14, 2020 (For possible action)

Moved by: Herm Walker
Action: Approved as written
Vote: 3-0
- IV. Approval of Minutes for July 28, 2020 (For possible action)

Moved by: James Maniaci
Action: Approved as written
Vote: 3-0
- V. Approval of agenda for August 11, 2020, and hold, combine or delete any items (For possible action)

Moved by: James Maniaci
Action: Removal of item VI. #14
Vote: 3-0

VI. Informational Items

1. Receive a report from Lt. Jeff Hewes with Metro Police regarding activity and statistics during the past month and other area crime concerns. (For discussion only)

In Lt. Hewes's absence, James Maniaci read the report.

July 2020 Statistics:

Calls for Service: 378, down 0.26% from this time last year

Traffic Citations: 363

DUIs: 1

Battery Domestic Violence Arrests: 9

Bookings: 40

Juvenile Citations: 0

2. Receive a report from Nevada Highway Patrol regarding activity and statistics during the last month and other public safety concerns. (For discussion only)

No report

3. Receive a report from Clark County Fire Department regarding calls for service during the past month and other fire prevention issues. (For discussion only)

Deputy Chief Thomas Touchstone provided the July's report.

Statistics July 2020:

Station 76:

Total responses: 178

Station 85:

Total responses: 128

Total July calls: 306

Deputy Chief Touchstone addressed the call request for Bullhead City with a verbal report.

Due to how the call volume is filtered, it's difficult to filter calls into Bullhead City. The calls are not going to addresses but to GPS coordinates, primarily on the river or the desert area around the Dam and Lake Mohave.

There were twelve total incidents in Bullhead from January 1, 2020 through June 30, 2020, five of which involved dispatching a vehicle. All calls were medical in nature and located around Lake Mohave, Davis Dam or on the river.

During the same time period, there were eleven total incidents and seven cancels in which Bullhead City responded to Laughlin.

Deputy Chief Touchstone provided updates to the recent fires and how the fires were controlled. The ladder truck is currently in the shop for an overhaul. A computer part is needed and they are waiting for delivery of this part. Delivery of the truck is estimated for late August or September.

4. Receive a report from Greg Turner with Clark County Water Reclamation District regarding the status of the wastewater system. (For discussion only)

In Greg Turner's absence, Herm Walker read the July report.

Statistics: July 2020

The Laughlin Water Reclamation Facility had an average of 1.86 MGD, producing clean water returned to the Colorado River. Flow saw a decrease of 150,000 gallons per day from this time last year.

Sewer Service Complaints: None

Odor Complaints: None

Call Before You Dig: 38 C.B.Y.D. Laughlin tickets received for July 2020.

5. Receive a report from Jason Bailey with Big Bend Water District regarding the status of the water system. (For discussion only)

Jason Bailey provided the July 2020 report.

Diversions:

July 2020: 393 acre-feet

2020 YTD total diversions: 1,985 acre-feet

2019 YTD total diversions: 2,089 acre-feet

Jason Bailey addressed a question Mr. Maniaci had a few months ago, regarding Laughlin's unused water allotment. As a reminder every year the total annual diversion given to Big Bend is 15,532 acre feet. In 2019, the usage was 3,639 acre feet, which is lower than previous years. Water that is not used by SNWA members and left in the system is banked for future resources. Unused water may be available by other SNWA members and used as needed. Nevada receives 300,000 acre feet from the Colorado River every year. Last year, Nevada used approximately 244,000 acre feet.

James Maniaci asked for additional information regarding the banking of water. Mr. Bailey said he would refer Mr. Maniaci to the Water Resource Plan on the website. Water banking is water that is left in Lake Meade and can be allocated to other states. Mr. Maniaci said the water that is left over from the 15,532 each year is not commutatively added to what Laughlin could have for the future. Mr. Bailey said, "No it is not." Any water saved is not for a specific member agency.

As COVID-19 activities continue to affect communities, our commitment to provide a safe and reliable water supply remains a top priority for the Big Bend Water District. The BBWD maintains a robust emergency response and readiness plans to help maintain water system operations during natural disaster, community-wide illness, and other emergency situations. We are closely monitoring the situation and are taking the appropriate precautionary measures in our offices and in the field. Please be assured that our staff will continue to work to ensure the system remains stable and operational during these trying times.

6. Receive a report from University of Nevada Cooperative Extension regarding the status of programs and upcoming activities. (For discussion only)

Hayley Maio provided the July report.

The Stay Camp went very well and the kids had a great time. The materials were delivered to the kids every day by Will Douglas and met on ZOOM twice a day.

The Master Gardner's will resume their meetings in October.

7. Receive a report from Jackie Mazzeo with Laughlin Chamber of Commerce regarding current and upcoming business activities in Laughlin. (For discussion only)

Jackie Mazzeo provided the July reports.

Updates:

The Chamber would ask the Board to assist in recovering the Marriage License services at the Government Center. Destination Wedding' are very difficult to book when the Bride and Groom have to travel to Las Vegas first.

Community Achievement Awards – October 24, 2020

Planning for this event continues and adjustments will be made to meet the guidelines set by the Governor. Nominations are being accepted and the Judges Panel has been selected.

Freedom of Expression – Tentative Date November 5, 2020

Golden Nugget Casino Resort Gold Diggers

Jingle Mingle Christmas Celebration – December 10, 2020

Aquarius Casino Resort Windows on the River Buffet 5-8pm

Mixers:

Networking and Educating – None planned at this time

Membership:

Quarter ending June

282 Active Members

3 New members

26% are Laughlin Members

A letter was read regarding the impacts of the Lake Powell Pipeline to the lower Colorado River region. Ms. Mazzeo provided information where residents can comment and object to the pipeline. According to Ms. Mazzeo, Commissioner Naft gave his permission for the LTAB members to provide comment regarding the pipeline individually and make note you are a LTAB member. For a copy of the complete letter contact this office or the Laughlin Chamber.

Ms. Mazzeo advised that Governor Sisolak provided Battle Born face mask and will be available at the Laughlin Chamber.

James Maniaci inquired about the new members and how many were Laughlin businesses. Ms. Mazzeo said two.

Mr. Maniaci said that given the financial situation in the County is it feasible that the County would re-open the marriage license office at this time. Ms. Mazzeo said yes. She stated that she believes some of the Laughlin County employees don't have enough to do and can provide this service.

Mr. Maniaci asked how many acre feet would the Lake Powell pipeline pump. Ms. Mazzeo said she didn't have those numbers; only what would be lost and those numbers are in the letter.

8. Receive a report from Jackie Mazzeo with the Laughlin Tourism Commission regarding current and upcoming events and activities. (For discussion only)

ROCKETS OVER THE RIVER – Fireworks Displays
Labor Day Weekend – Actual Holiday date has not been determined
New Year's Eve for 2021 – Actual time has not been determined
www.Visitlaughlin.com

BEST IN THE DESERT – The Jagged X National Desert Cup \$18K Prize Money
Off Road Races Motorcycle, Quad and UTV - 17 mile loop
4WP Youth UTV Race Championship Series on Friday
September 25-27, 2020
<https://bitd.com/race-events>

SPARTAN GAMES - Obstacle course event for competitors Elite, Para and kids - **CANCELLED**
November 13-15, 2020
<https://www.spartan.com/en/race/detail/5208/overview>

Run Laughlin 5K, 12K and Half Marathon “Two States, Two Time Zones and ONE DAM GREAT RACE”
Saturday, December 5, 2020
www.mercuryevent.com

SNORE – McKenzie's Rage at the River – Off Road Races
December 10-13, 2020 Laughlin Event Site/Park
<https://www.snoreracing.net>

9. Receive a report from Parks & Recreation regarding the status of programs and upcoming activities. (For discussion only)

A'Lonn Bilbray provided the report.

Due to COVID-19, Zero monthly building visits.

No upcoming events

Updates:

Senior Games were cancelled due to a decrease in participation and a decrease in sponsorship. The games will be evaluated for 2022.

Spirit Mountain Activity Center will remain closed.

Boys & Girls Club:

Full day schedule will resume August 17th, Monday – Friday, 7:30am-6:00pm. Cost is \$40 per week, per child with a \$10 fee for new membership. New membership forms will need to be submitted for all children including those that attended the summer session.

Currently options are being considered for Virtual Field Trips.

Herm Walker asked who promotes the Senior Games. Ms. Bilbray said the Parks and Recreation. “What is done in terms of marketing to precipitate participation?” Ms. Bilbray said she can find out and get back to him next month.

Contact Info:

Shelly Gulotta, Supervisor
A’Lonn Bilbray, Recreation Specialist
Laughlin Office: (702) 298-3413

10. Receive a report from Laughlin school system regarding the status of programs and upcoming activities. (For discussion only)

No report

11. Receive a report from Tanya Brown-Wirth with Laughlin Library regarding current and upcoming activities. (For discussion only)

No report

12. Receive a report from James Maniaci regarding Clark County Master Plan and Title 30 Development Code Rewrite Committee. (For discussion only)

James Maniaci provided an update to the long range master plan schedule. Changes were made to phases 1-3. Mr. Maniaci provided information with the changes and a project schedule. The overall time line has not changed. Phase one started in January 2020 and concluded in July 2020. Phase two started in February of 2020 which should conclude October 2022. Phase three began in April 2020 and concludes in November. For a copy of the full report contact this office.

13. Announcements of upcoming neighborhood meetings and County or community meetings and events. (For discussion only)

None

14. Receive a presentation to recognize and honor a recipient for their dedication and extensive community service. (For discussion only)

Removed from agenda.

VII. Planning & Zoning:

Current Zoning Items: None

Previous Zoning Actions:

(For additional information see Clark County web site on the Internet at: http://www.clarkcountynv.gov/Depts/public_communications/Pages/Agendas.aspx then go to NOFA (Notice of Final Action) on the month and date the item was heard and look for the item number (i.e. UC-0000-11).

1. **WS-20-0282-SHIPKEY A H & B A JAN 12 1989 TR & HERRICK HAL TRS:**
WAIVERS OF DEVELOPMENT STANDARDS for the following: **1)** eliminate parking lot landscaping; and **2)** permit alternative landscaping adjacent to streets.
DESIGN REVIEW for landscaping areas in conjunction with marijuana establishments on 20.0 acres in a C-2 (General Commercial) Zone. Generally located on the north side of Bruce Woodbury Drive and the east side of Thomas Edison Drive within Laughlin. To the BCC 08/19/2020

No final action at the time of this posting.

VIII. General Business: None

IV. Public Comment:

Bruce Henry, Laughlin resident, voiced his concerns regarding the generating station and asked for an update.

Fred Wells, Laughlin resident, voiced his concerns regarding the road conditions in Laughlin. He also had a concern regarding the Garces Monument that could have hazardous consequences for visitors and requested it moved to a safer location.

James Maniaci spoke about an email he sent out to the public of his pending move out of state as of September 1, 2020. His statement today was to rescind that email until the end of the year and keep his residency in Laughlin until after the November election.

X. Next Meeting Date: September 08, 2020.

XI. Adjournment: 2:43 pm

These minutes are in draft form and will be formally approved at the September 08, 2020 meeting. Any corrections to these minutes will be reflected in the meeting minutes of the October 13, 2020 meeting.

To listen to the audio recording of the Laughlin Town Advisory Board go to:
<http://www.clarkcountynv.gov/administrative-services/laughlin/Pages/LaughlinTownAdvisoryBoard.aspx>



Impacts of water flow on aquatic insects
and its potential role in controlling the
pestiferous net-spinning caddisfly,
Smicridea fasciatella



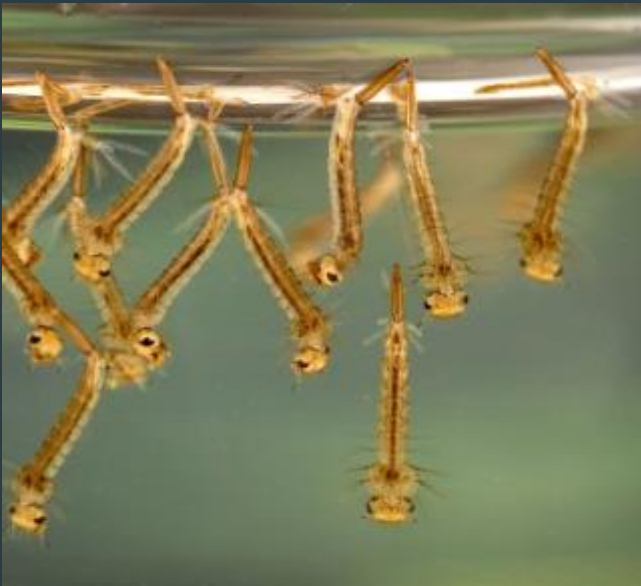
July 21, 2020

Michael Cavallaro, Ph.D.

Pest Abatement Manager

Bullhead City Pest Abatement Mission

- ▶ The Pest Abatement Program aims to enrich and improve the quality of life and promote healthy outdoor recreation and activities for Bullhead City residents and visitors by researching and controlling populations of nuisance aquatic insects that are a concern to public health and the local economy.



Integrated Pest Management

- ▶ Defined as an ecosystem-based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties.



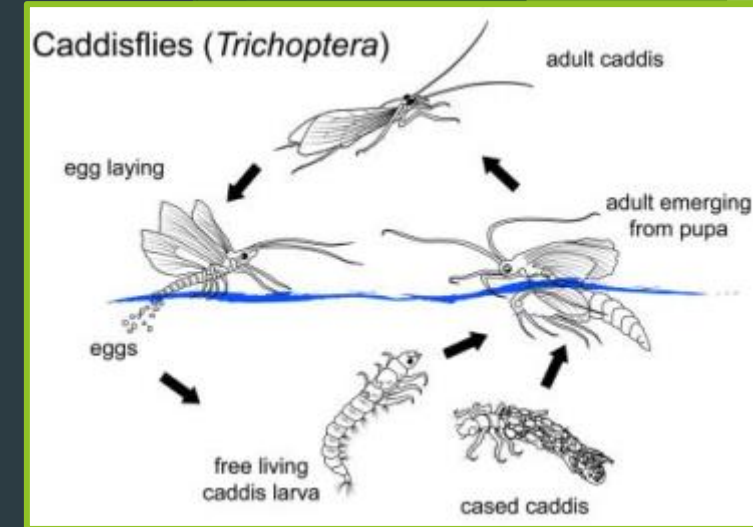
Integrated caddisfly management requires a multidimensional approach to establish a measurable tolerance threshold

No management blueprint exists to control pestiferous, net-spinning caddisflies

Basic science and foundational knowledge is required to fill the data gaps

Net-spinning caddisfly biology, ecology, and life history strategies

- ▶ Aquatic insects with four distinct life stages
- ▶ Larvae construct cases from sand, plant material, silk
- ▶ Require high water quality and highly sensitive to pollution
- ▶ Selective habitat preferences, considering factors such as water velocity, dissolved oxygen, river substrate stability
- ▶ Exposed rocks and algal mats (green clumps) are ideal for larvae net-building



Larval net and case



Exposed rocks covered in algae



Multiple cases per cobble



Net-spinning caddisfly biology, ecology, and life history strategies

- ▶ Adults will emerge from the water and swarm at dawn and dusk
 - ▶ Poor flyers, seek stagnant air, often rest on darker colors
- ▶ Adults possess vestigial mouthparts
 - ▶ Can not bite or sting



Pupa emerging from larval case



Resting adult



Swarms at dusk

Impacts of large dams

- ▶ Disrupts natural maintenance and seasonality of the river ecosystem
- ▶ Depletes sediment and creates more exposed rock habitat and channelizes river stem, creating a topographical incision
- ▶ Decreases habitat heterogeneity, i.e., may simply habitat to fewer microhabitats
- ▶ Gradually terraforming the river for a simplified insect community

Flow Management for Hydropower Extirpates Aquatic Insects, Undermining River Food Webs

THEODORE A. KENNEDY, JEFFREY D. MUEHLBAUER, CHARLES B. YACKULIC, DAVID A. LYTLE, SCOTT W. MILLER, KIMBERLY L. DIBBLE, ERIC W. KORTENHOEVEN, ANYA N. METCALFE, COLDEN V. BAXTER

Dams impound the majority of rivers and provide important societal benefits, especially daily water releases that enable on-peak hydroelectricity generation. Such "hydropеaking" is common worldwide, but its downstream impacts remain unclear. We evaluated the response of aquatic insects, a cornerstone of river food webs, to hydropеaking using a life history-hydrodynamic model. Our model predicts that aquatic-insect abundance will depend on a basic life-history trait—adult egg-laying behavior—such that open-water layers will be unaffected by hydropеaking, whereas ecologically important and widespread river-edge layers, such as mayflies, will be extirpated. These predictions are supported by a more-than-2500-sample, citizen-science data set of aquatic insects from the Colorado River in the Grand Canyon and by a survey of insect diversity and hydropеaking intensity across dammed rivers of the Western United States. Our study reveals a hydropеaking-related life history bottleneck that precludes viable populations of many aquatic insects from inhabiting regulated rivers.

Keywords: biodiversity, dams, biological traits, river ecology, citizen science

NEWS › ENVIRONMENT

Scientists hope bug experiment fattens Colorado River fish



LIVING

It's getting extremely 'buggy' at the Grand Canyon

By Associated Press

May 6, 2019 | 1:20pm



1 of 6

This undated photo shows an adult midge, about 1/4 inch long on midge larvae, while birds, bats and other terrestrial wildlife in the Grand Canyon. Torrents of water have rushed through the canyon for native fish and to protect archaeological sites. Beginning next month, as the dam that holds back Lake Powell will decrease the

Deep in the Grand Canyon, Scientists Struggle to Bring Back the Bugs

A team of researchers and river guides in the Grand Canyon aim to repair the intricate food web of the Colorado River.

Davis Dam is unique!

Hydropeaking and aquatic insects

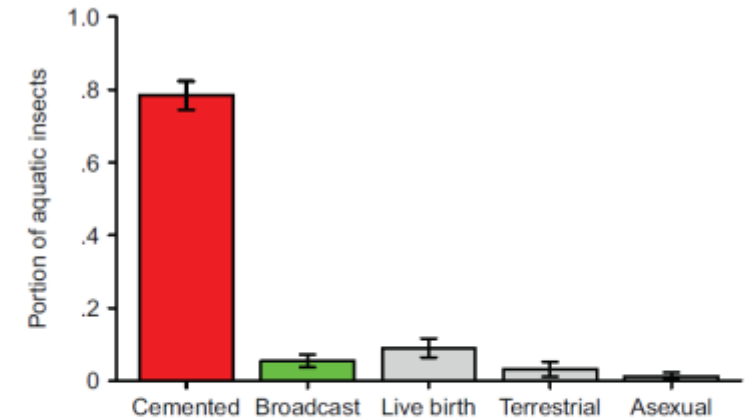
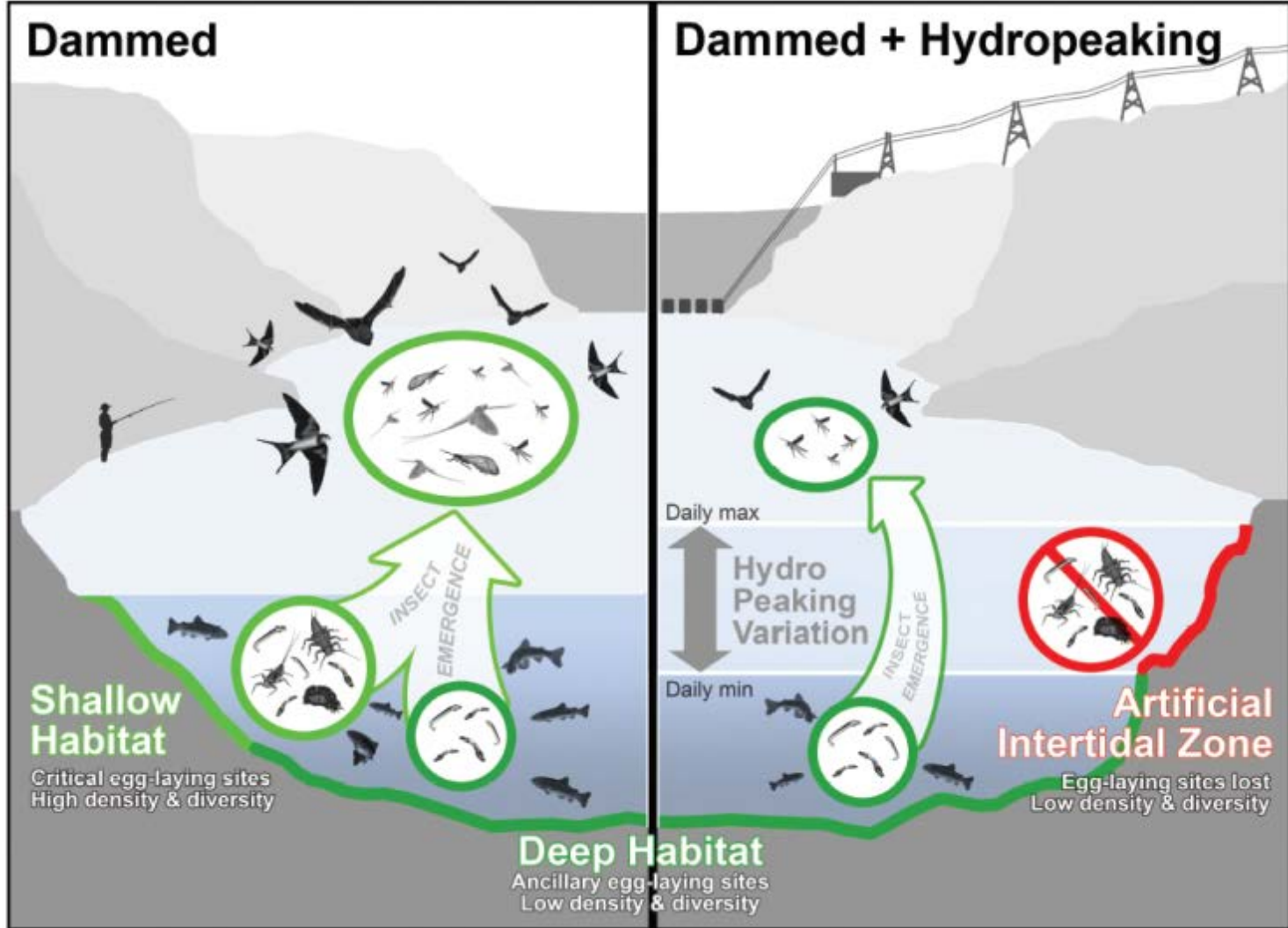


Figure 1. Aquatic insects often cement eggs to substrates along river margins. Represented here are the egg-laying strategies for the most common aquatic invertebrate genera in North America and Europe, representing 96 and 78 taxa, respectively. The error bars represent the standard error of the mean. Adapted with permission from Statzner and Beche 2010.

Water release and *Smicridea* caddisflies

- ▶ Fall caddisfly swarms are consistently worse than Spring caddisfly swarms due to seasonal differences in water release
- ▶ Spring 2020
 - ▶ Larvae surveys yielded no larvae below the ~0.5 unit water line
 - ▶ Adult emergence was 10 fold less at trapping sites outside the bend reach of the river, between river mile 8 to 10
 - ▶ Anecdotal and qualitative interviews of some river front residents revealed adult caddisfly populations were the lowest witnessed in recent years
 - ▶ Unfortunately, those on the river in the bend reach were still thick with swarming adults



Water release and *Smicridea* caddisflies

- ▶ Proposal:
 - ▶ Conduct laboratory and *ex situ* experiments to determine the thermal tolerance and desiccation resistance of *Smicridea* caddisflies
 - ▶ Generate a set of timeframes, i.e., varying in length and date, for caddisfly control
 - ▶ Present proposal to committee members for comment and discussion

ECOLOGY

How dams can go with the flow

Small changes to water flow regimes from dams can help to restore river ecosystems

By N. LeRoy Poff^{1,2} and John C. Schmidt³

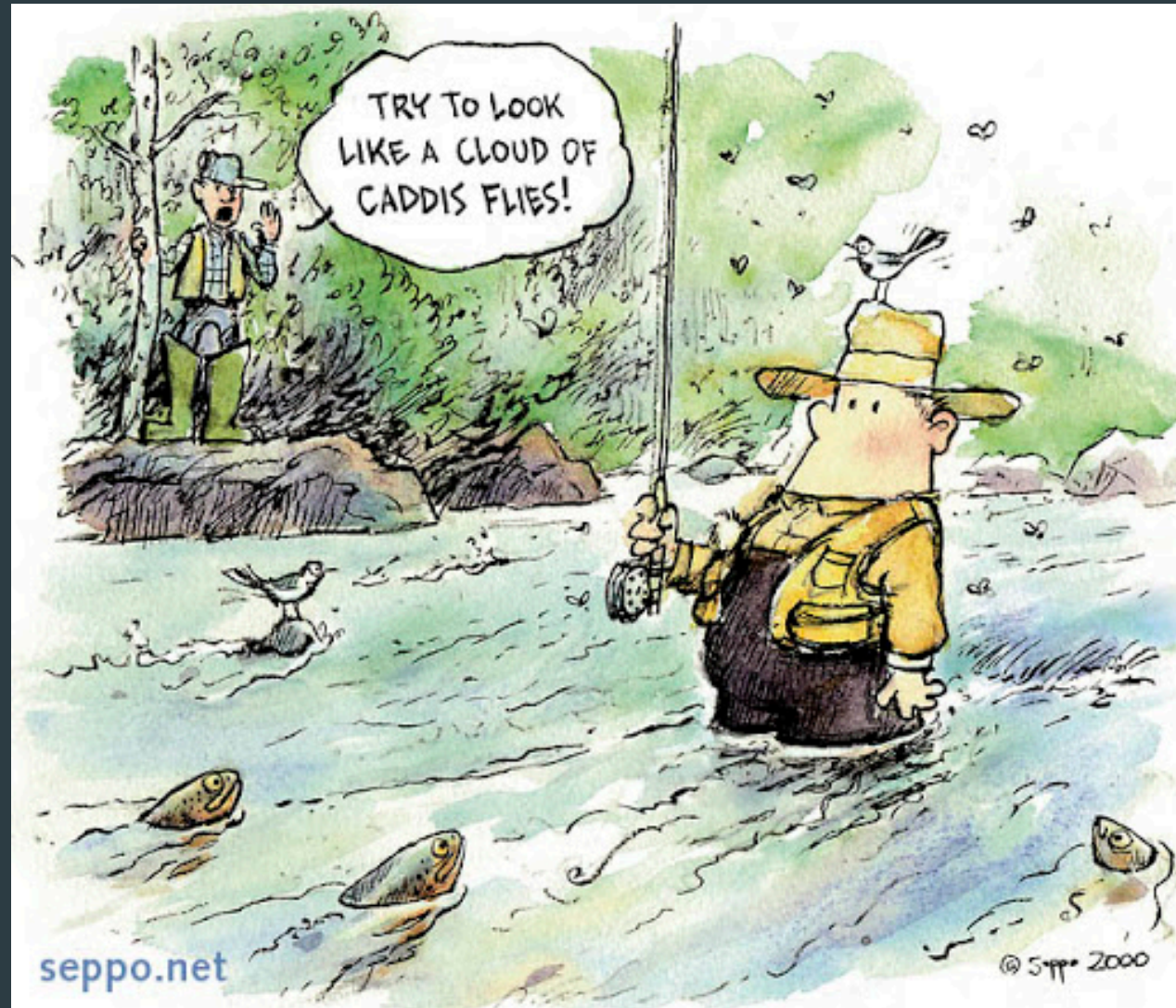
The world's rivers are regulated by about 58,000 large dams (more than 15 m high) that provide water supplies for municipalities and irrigation, allow downstream navigation, and enable hydropower production (1). New dams are widely seen as sources of green energy. An estimated 75% of the world's potential hydropower capacity is unexploited (2), and some 3700 new dams are currently proposed in developing economies (3, 4).

water flows that typically severely impairs productive, downstream shoreline habitats through repeated wetting and drying. River scientists have long struggled with the conundrum of how to diminish these negative ecological effects in a cost-effective manner, given the strong economic incentive of hydropeaking. A recent study of the Colorado River ecosystem downstream from the hydropeaking Glen Canyon Dam by Kennedy *et al.* (7) offers a promising approach (see the figure).

The authors found that the river food web, a fundamental feature of a river's ecological integrity (8), lacks large aquatic insects, key species that are common in sections of the Colorado River not strongly influenced by hydropeaking flows. Although aquatic insects spend most of their lifetimes in the water, adults take flight to mate and lay eggs in shallow water near the shoreline. Large aquatic insects firmly cement their eggs just under the water surface on partially exposed boul-

“Managing...rivers to better meet both human and ecosystem needs is a complex societal challenge.”

Thank you for your attention!



Capital Improvement Project List Laughlin

| Project | Project Description |
|--|--|
| General Room / Control Room Digital Upgrades | Replace and upgrade all audio/visual equipment in the Control Room, including encoder, decoder, various software, cameras and televisions. |
| Laughlin Chamber & Visitor's Center Parking Lot Repaving | Repave a parking lot area on a County parcel adjacent to the Laughlin Chamber of Commerce and the Laughlin Visitor's Center. |
| Romtec Building Air Conditioning | Create an air conditioned space in the concession portion of the existing Romtec block building. |
| Heritage Trails Host Site Addition | Add a new host shelter site with shade cover and RV amenities to the Bridge Trailhead at the Colorado River Heritage Greenway Park and Trails. |

FY 2021-22 Capital Budget Requests

Laughlin

Please Score 1 - 10 (10 being the highest)

| | Gina Mackey | Kathy Ochs | James Maniaci | Nile Smith | Herman Walker | Total | Priority |
|---|-------------|------------|---------------|------------|---------------|-------|----------|
| RGC Control Room Digital Upgrade | | | | | | | |
| Chamber/Visitor Center Parking Lot Repaving | | | | | | | |
| Romtec Building Air Conditioning--Pyramid Park | | | | | | | |
| Heritage Trails Host Site | | | | | | | |