Paul Reap

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https://paulreap.github.io/PORTFOLIO/index.html

Education

Bachelor of Science in Biological Sciences: Conservation Biology and Ecology Jan 2019 - May 2022
Arizona State University, Tempe AZ | Grade Point Average: 3.81/4.00 *Summa Cum Laude*
Certifications: Geographic Information Science

Professional Experience

GIS Specialist
Pinal County, Florence AZ | Supervisor: Benjamin Coker
· Updated and maintained the county's GIS database according to department, public agency policy, and municipal codes
· Reviewed survey data, source maps, photographs, automated mapping products, and other records to determine data quality, accuracy, and consistency.
· Generated special purpose maps for county departments and public agencies
· Assisted the public on addressing related inquiries to update and maintain
· Manually drew right of way based on legal descriptions of property outlined in various documents submitted to county records
· Addressed subdivision PLATs through tentative to final with several review periods

Project Manager I/Fisheries Scientist August 2022 - September 2025
Marsh & Associates, Tempe AZ | Supervisor: Kurt Shollenberger
· Conducted native fish monitoring surveys in streams throughout the Gila River basin using a variety of gear i.e backpack electrofisher, seine, and collapsible hoop nets to determine fish assemblage and presence/absence of focal species
· Collected water quality, stream discharge, and mesohabitat delineation measurements to describe relative conditions for native fish populations
· Lead a team of 5 field biologists to meet project objectives, conduct field work, and deliver technical reporting to funding agencies
· Deployed remote PIT scanners to monitor repatriated Razorback Sucker *Xyrauchen texanus* population dynamics in Lake Mohave
· Removed Yellow Bullhead *Ameiurus natalis* in Aravaipa and Bonita creeks by method of electrofishing and collapsible hoop net
· Developed R scripts for data manipulation and analysis on multiple projects to write technical and annual reports
· Developed maps and spatial analysis using QGIS and ArcGIS software to be used in technical reports and professional presentations
· Developed and maintained databases through R and ArcGIS Pro and created Survey123 forms for Gila River Native Fish Monitoring Program

Aquatic Invasive Species Compliance Intern November 2021 - August 2022
Arizona Game and Fish Department, Mesa AZ | Supervisor: Amberle Jones
· Conducted creel surveys at Bartlett Lake to track progress of management objectives and recorded field data into ArcGIS application Survey 123
· Interacted with the public by educating anglers on various statewide fishing regulations, as well as aquatic invasive species dangers and regulations
· Assisted on surveys of sportfish populations in reservoirs and native fishes in remote streams via backpack and boat electrofishing and passive capture techniques
· Assisted on aquatic habitat construction projects by transporting and assembling habitat at Saguaro Lake
· Assisted on the evaluation of undetermined streams for native fish presence and habitat quality
· Used passive capture (hoop nets) and electrofishing techniques in the removal of Green Sunfish to decrease competition and increase habitat quality for native fishes
· Sampled region 6 reservoirs for Golden Alga *Prymnesium parvum* presence after reported fish kill events
· Collected, analyzed, summarized, and reported field data from electrofishing surveys at reservoirs and creeks

Team Supervisor/Combat Engineer July 2015 - November 2019
United States Army, Fort Irwin CA | Supervisor: Michael Gates
· Led a team of 4-5 soldiers on training operations for units preparing to deploy overseas and oversaw battle strategies for said team
· Provided morale, purpose and direction for a team on 33 consecutive training operations to ensure deployment readiness
· Supervised 4 fleet vehicles for maintenance and availability for training missions
· Was essential in the strategizing of building and completing wire obstacles to immobilize opposing forces' routes in training simulations

Technical Reports

Reap P.C., B.R Kesner, P.C. Marsh. 2025. Gila River Basin Native Fish Monitoring 2024 Annual Report. Submitted to Bureau of Reclamation Phoenix, AZ.

Reap P.C., B.R Kesner, P.C. Marsh. 2024. Gila River Basin Native Fish Monitoring 2023 Annual Report. Submitted to Bureau of Reclamation Phoenix, AZ.

Reap P.C., G.P. Percy, B.R Kesner, P.C. Marsh. 2023. Demographics and Monitoring of Repatriated Razorback Sucker in Lake Mohave. Submitted to Bureau of Reclamation Boulder City, NV.

Reap, P.C., W.D. Franklin, B.R. Kesner, P.C. Marsh. 2023. 2023 Fishery Survey of Foxboro Ranch Estates. Submitted to Foxboro Ranch Homeowners Committee.

Shollenberger K.S., P.C. Reap, B.R Kesner, and P.C. Marsh. 2023. Gila River Basin Native Fish Monitoring 2022 Annual Report. Submitted to Bureau of Reclamation Phoenix Area Office

Professional Presentations

Reap PC. 2024. Gila River Basin Monitoring 2024. Gila River Basin Native Fish Conservation Program Meeting. December 11. Tucson, AZ.

Reap PC. 2023. Gila River Basin Monitoring 2023. Gila River Basin Native Fish Conservation Program Meeting. December 11. Silver City, NM.

Reap PC, Kesner BR, and Marsh PC. 2023. Demographics and Monitoring of Repatriated Razorback Sucker *Xyrauchen texanus* in Lake Mohave: 2022 Annual Report. Colorado River Aquatic Biologist Meeting. January 4-5. Laughlin, NV. Aquarius Hotel

References

Ben Coker
Senior GIS Specialist - Pinal County
480-244-9917

Kurt Shollenberger
Fish Biologist - National Parks Service
610-417-7101

Paul Marsh
Owner - Marsh & Associates (Retired)
480-229-0531

Conor Colburn
Police Officer - Addison County
401-487-7150