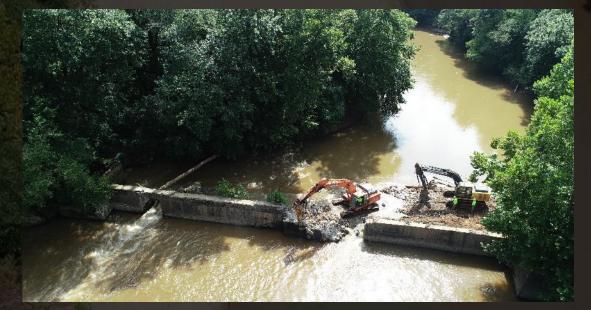
Volunteers Join Together to Restore Crayfish Creek-Building Capacity Through Stakeholder Partnerships





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Danny Jackson (djackso@uga.edu)
Jon Calabria (jcalabr@uga.edu)











GeorgiaAquatic Connectivity Team

ga-act.org



What is Aquatic Connectivity?

- Aquatic connectivity refers to physically linked pathways through which energy, material, and organisms move from one place to another via water.
- It includes longitudinal (upstream and downstream) and lateral (between stream and floodplain) connectivity.
- The physical scope includes streams and wetlands, floodplains, and estuaries.

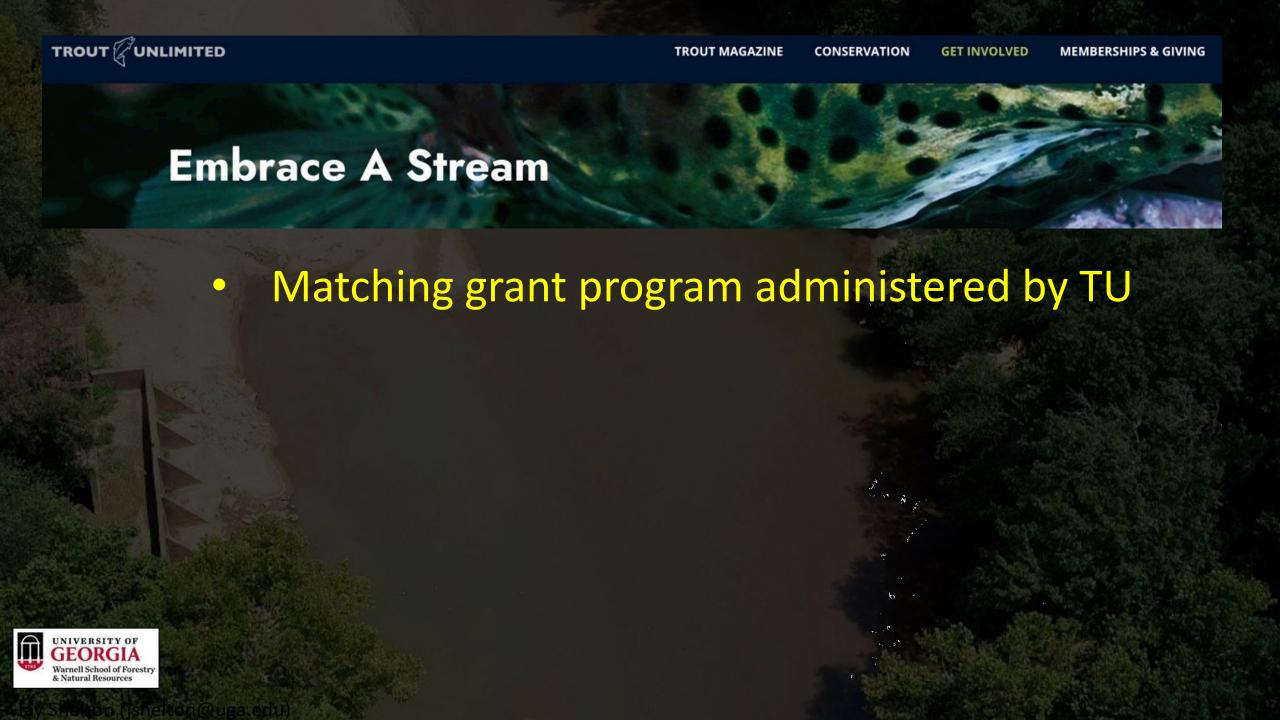


"Take care of the fish, then the fishing will take care of itself."









Embrace A Stream

- Matching grant program administered by TU
- Since its inception in 1975, Embrace A Stream has funded more than 1,100 individual projects



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- Matching grant program administered by TU
- Since its inception in 1975, Embrace A Stream has funded more than 1,100 individual projects
- More than \$4.75 million in direct cash grants have been awarded
- Each year, over \$100,000 is awarded to more than two dozen projects





- In 2018 2 TU Chapters in GA were interested in applying for a grant.
- Problem: \$100,000 divided by 2 dozen projects
 = Average of \$4,100 per project



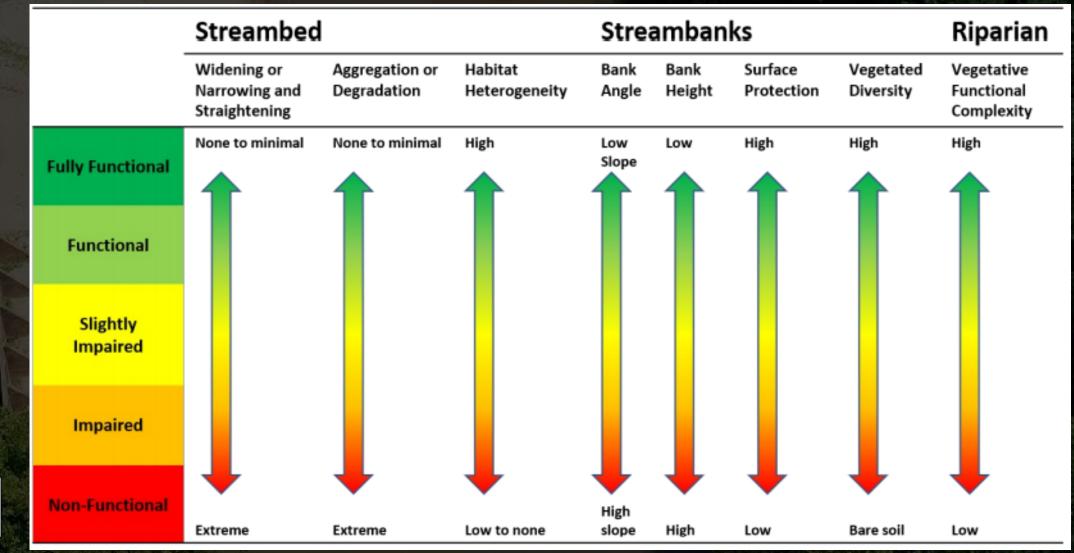




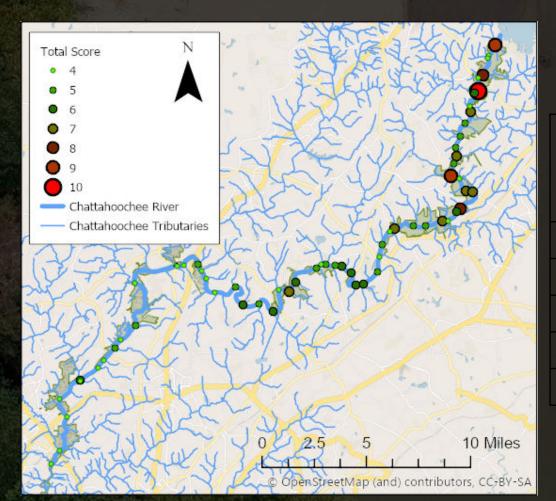
Chattahoochee River National Recreation Area (CRNRA), a series of fifteen park units along 48 miles of the Chattahoochee River in metro Atlanta



High-Definition Stream Survey of the Chattahoochee River National Recreation Area (CRNRA), Georgia, USA, Trutta Environmental Solutions



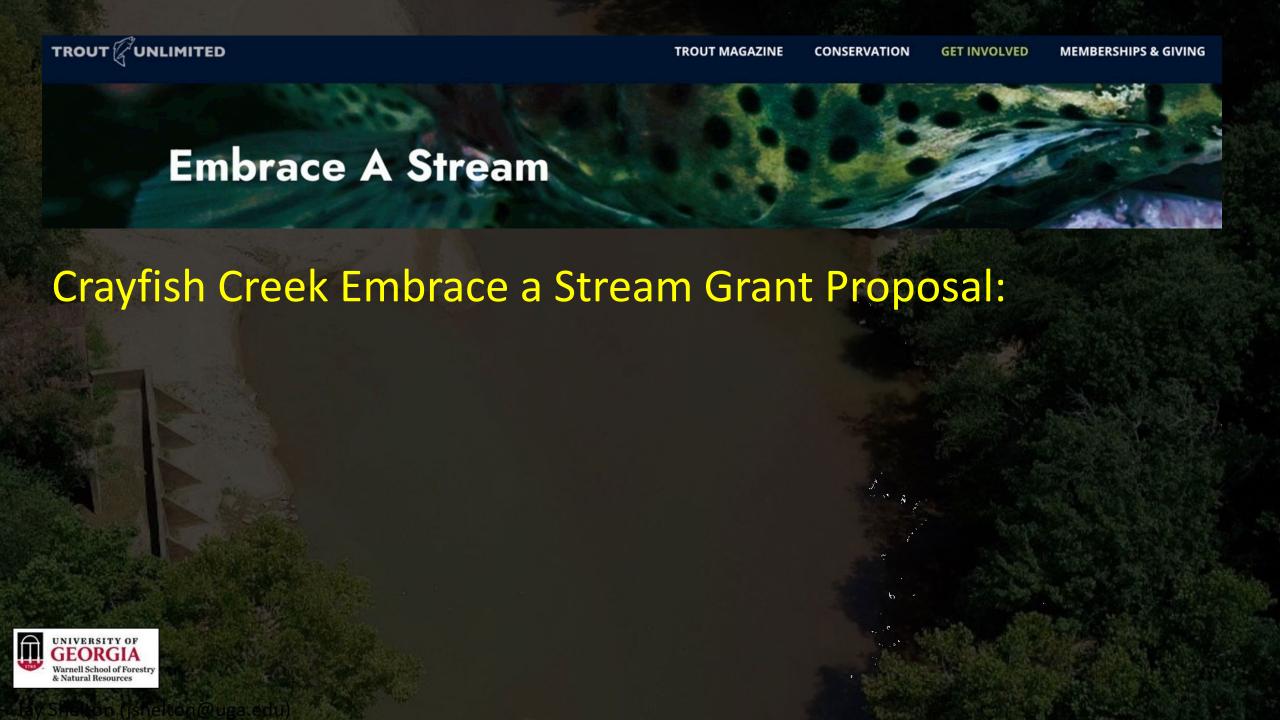


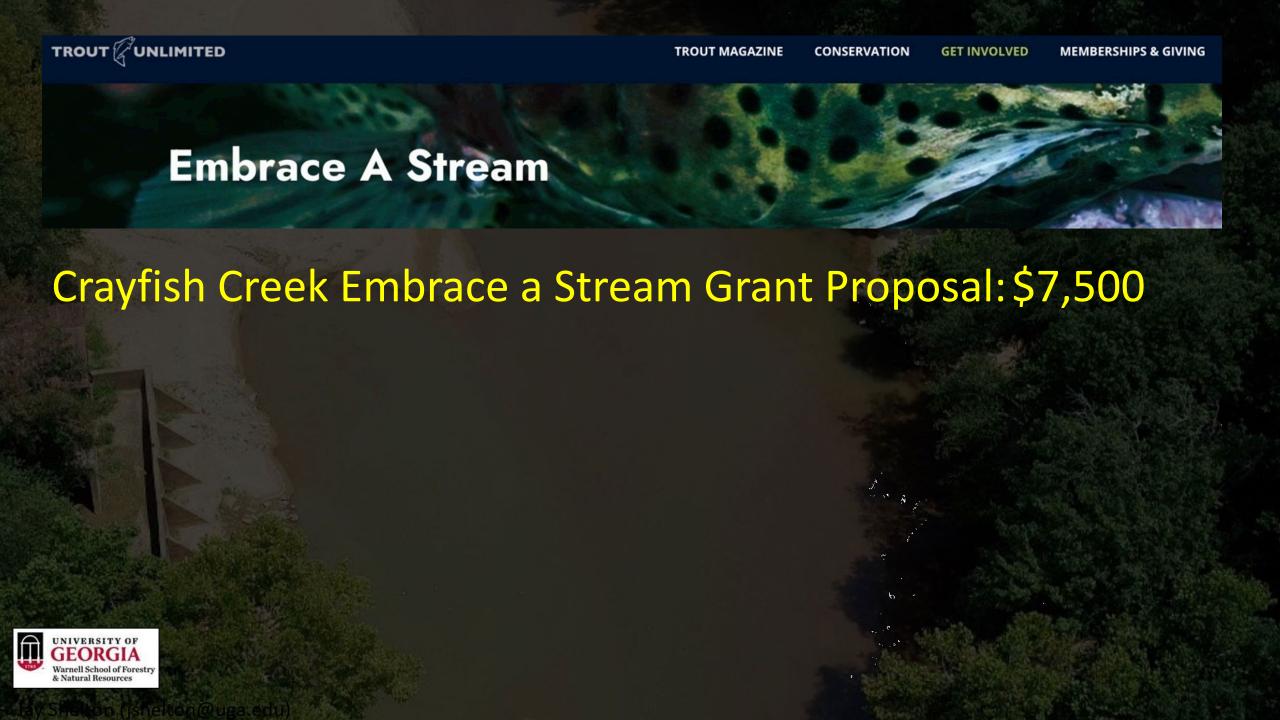


Tributary	Tributary Streambank Condition	Sediment Bar Severity	Large Woody Debris Severity	Total Score
Crayfish Creek	5	3	2	10
Dicks Creek	5	2	2	9
Haw Creek	5	اخترار	3	9
Richland Creek	5	2	1	8
Brushy Creek	5	2	I I	8









TU Embrace A Stream – Crayfish Creek

Project Partners:

- **Upper Chattahoochee Chapter**
- Oconee River Chapter
- **UGA 5Rivers Chapter**
- **GA Council**
- Chattahoochee River National Recreation Area (National Parks Service)
- **GA DNR**
- **Chattahoochee Parks Conservancy**
- Chattahoochee River Keeper
- UGA Warnell School of Forestry and Nat. Res.
- **River Through Atlanta**
- **Trout Unlimited National**
- Columbia Engineering
- **Gwinnett Soil and Water Conservations District**
- National Fish and Wildlife Foundation
- Southern Company
- **US Forest Service**















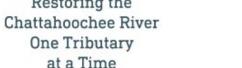


























UNIVERSITY OF



Embrace A Stream

Crayfish Creek Embrace a Stream Grant Proposal: \$ 7,500 Additional donations from fundraising:

Other grants:

In-kind contributions

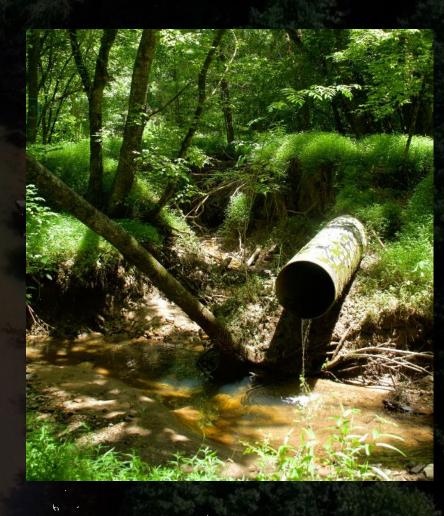
Volunteer hours (2,900 hours/\$28.54 per hour*)
GRAND TOTAL



Funds Raised

UCCTU, ORCTU, GA Council\$7,7502019 TU Embrace-A-Stream Grant\$7,0002019 EAS Fundraising Campaign\$23,500National Fish and Wildlife Foundation\$50,0002020 USDA NRCS\$90,0002021 TU Chapter Contributions\$16,573

\$184,823





Total



Embrace A Stream

Crayfish Creek Embrace a Stream Grant Proposal:\$

Additional donations from fundraising:

Other grants:

In-kind contributions

Volunteer hours (2,900 hours/\$28.54 per hour*) \$ 83,822

GRAND TOTAL

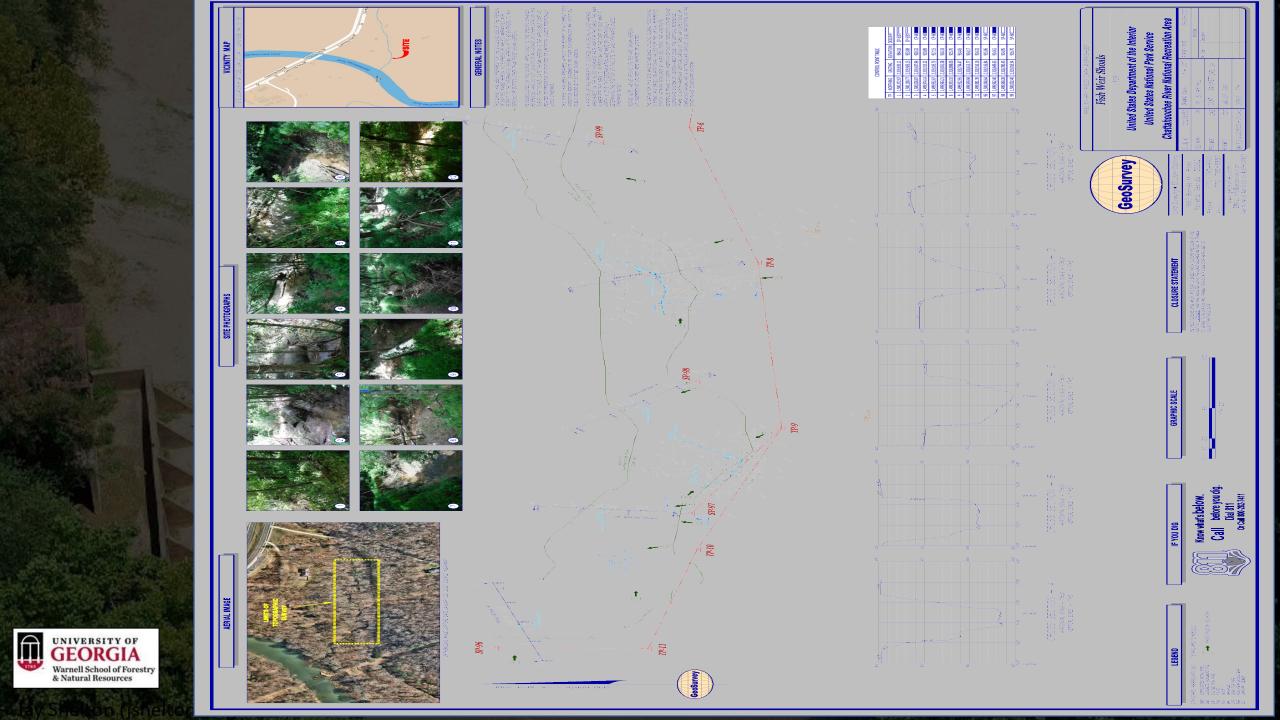
\$ 43,515

\$140,000

\$ 22,000

\$296,837





Construction Plans



PROPERTY OWNER LISTING

CRAYFISH CREEK
SUGAR HILL, GEORGIA 30303
STREAM RESTORATION PROJECT
CONSTRUCTION PLANS

HEET NO.	DESAURNS HO.	BESCRIPTION
_	1	COMES SHEET AND MAKES
		GENERAL HOTES
ı.	-	CHETTO COMMING PLAN SHEET
4	-	DOM: PAIN SHEET
		CONSTRUCTION PLAN SHEET
7	•	DOMON & STORED CONTROL STARS
9-19	9-10	phonon a apparent control fum sector
11-0	11-12	ENGROW & REDWENT CONTROL BENALE
	18	MODERATORIO PLAN SHEET
ч	14	BODGBOOM SCIALS

PROJECT DESCRIPTION
THE CHARTEST CHECK THE CONTROL THE CHARTEST CHECK THE DESCRIPTION OF RESHAPON THE EXERNAC
STREAMING, RESTAULABLE DESCRIPTION CONTROL REGISTRES TO PREVIOUS FUTURE
EXCESSION, AND REINSTAULABLE RESEARCH, EFFORES ONTO THE STREAMINGS.

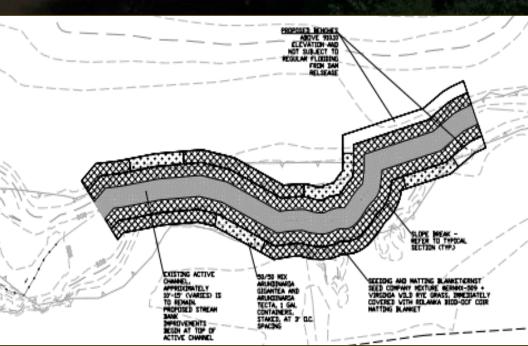
Business for Charaginas has firm for Tabalany of a Tible

ALL REQUIREMENTS OF THE CITY OF SUMAN HALL DEVELOPMENT REQUIREMENT BY THE PREPARATION AND SUMMERSHOON OF A REPLICATION FOR THEMS APPLICATION WHITHIN BELLE HUTLING, AND SUM APPLICATION AND ALL SUPPORTED HAM AND APPLICATION AND ALL SUPPORTED CHAIR SERVICE HORSE THE RESPONSE HORSE AND APPLICATION OF THE STEP PLAN AND ALL OTHER REPLICATION OF THE STEP PLAN AND ALL OTHER CONTROL PROPERTY REQUIREMENT AND ADDRESS OF THE STEP PLAN AND ALL PURPORT PROVINCING OF SAID REPLICATION OF OTHER COUNTY REQUIREMENT.

TY MUNICEP TY OF SEASON HELL SE CONTRICATE EXPOSES THEOLIKE MONTHS FROM THE DATE OF APPROXIM. UNLESS A DEVELOPMENT PERMIT IS RESULT

Columbia Engine 2882 BUFORD HERHRAY SUITE 200 DULUM, SEORGIA 20024 (770) 825-0357	e

THE CONTROL				



Thank you Columbia Engineering!



www.tu.org

SCALE: 1"=100





































UNIVERSITY OF GEORGIA
Warnell School of Forestry & Natural Resources

















Volunteers

Workday #	Date	Total hours	Total # of volunteers
1	3/7/2020	132	44
2	11/12/2020	84	28
3	1/30/2021	108	36
4	2/27/2021	63	21
5	11/5/2021	66	11
6	11/6/2021	102	17
7	11/18/2021	84	14
8	11/19/2021	120	20
9	11/20/2021	210	35
10	12/4/2021	60	10
11	12/18/2021	108	36
12	2/18/2022	54	9
13	2/19/2022	210	35
14	3/5/2022	294	69
Total Hours / Volunteers		1695	<i>385</i>







Keys to Success

- 1. Clear objectives and consistent messaging
 - Communicated regularly and use the power of social media
- 2. Numerous and diverse stakeholders
 - Sharing the load was essential
 - Project leadership was volunteer based
- 3. Partners with subject matter expertise (NPS, DNR, Columbia)
- 4. Scaled goals based on available funds
 - Started small (Initial goal: \$15,000 & 1-2 50 ft. locations)
- 5. Army of volunteers from diverse backgrounds
 - Scout, School organizations, TU, NPS, etc.





