



Stream Debris Removal Guidance for StRAP

(Streamflow Rehabilitation Assistance Program)

The NC General Assembly allotted \$38 Million to the StRAP program to be proactive to help prevent future flooding



One part of StRAP is to assist in protecting and restoring the integrity of drainage infrastructure through routine maintenance to existing streams and drainageways by removing blockage of debris or sediment



Turning Drainageways

From This



Into This



I have stream
debris to
remove. What
do I take out?
What do I
leave? I'm so
confused!!

Don't Panic!



Here Is a Side by Side of Before and After



Trees fallen across the stream, root ball pulled up, were cut off and the root ball remains



Do you cut a tree leaning over the creek but the roots are secure in the bank? NO!!



Debris To Leave. Submerged logs. Don't dig logs out that are not obstructing flow. They are good fish habitat!



Trees that “appear” to have been there awhile that are not blocking the flow. Leave them.



Trees Fallen, Not Blocking the Flow. Leave Them!



Beaver Dams Need to be Removed. Trapping Needs to Occur or the Beavers Will Return



After the Beaver Dam has Been Removed



I CAN'T HELP THINKING
THAT THIS WOULD BE
A BETTER WORLD
IF EVERYONE
WOULD LISTEN TO ME..



Removing
Woody
Debris is
not Always
“Black and
White” Use
your best
Judgement

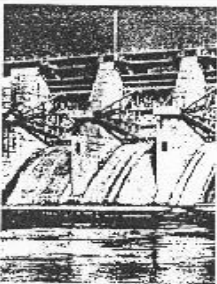
Just remember ...The after needs to look more like this...



And not this!!!



This Guide from the Corps of Engineers is a Good Guide on What to Remove



ENVIRONMENTAL IMPACT
RESEARCH PROGRAM

TECHNICAL REPORT EL-92-35

INCREMENTAL EFFECTS OF LARGE WOODY DEBRIS REMOVAL ON PHYSICAL AQUATIC HABITAT

by

Roger H. Smith

Center for River Studies
Memphis State University
Memphis, Tennessee 38152

F. Douglas Shields, Jr.

USDA Agricultural Research Service
National Sedimentation Laboratory
Oxford, Mississippi 38855-1157

Elba A. Dardou, Jr., Thomas E. Schaefer, Jr., Anthony C. Gibson

Environmental Laboratory

DEPARTMENT OF THE ARMY
Waterways Experiment Station, Corps of Engineers
3909 Halls Ferry Road, Vicksburg, Mississippi 39180-6199



November 1992

Final Report

Approved For Public Release; Distribution Is Unlimited

Prepared for DEPARTMENT OF THE ARMY
US Army Corps of Engineers
Washington, DC 20314-1000

Under EIRP Work Unit 32555

Much of the Work Will be Hand Labor With Chainsaws and Wrenches



And some with heavy equipment



Deposit the Debris outside the 100 year floodplain.



Another option for debris disposal is to deposit the debris, within the 100 yr floodplain, a minimum of 30 feet from the stream bank, cable the debris, anchoring it to living trees



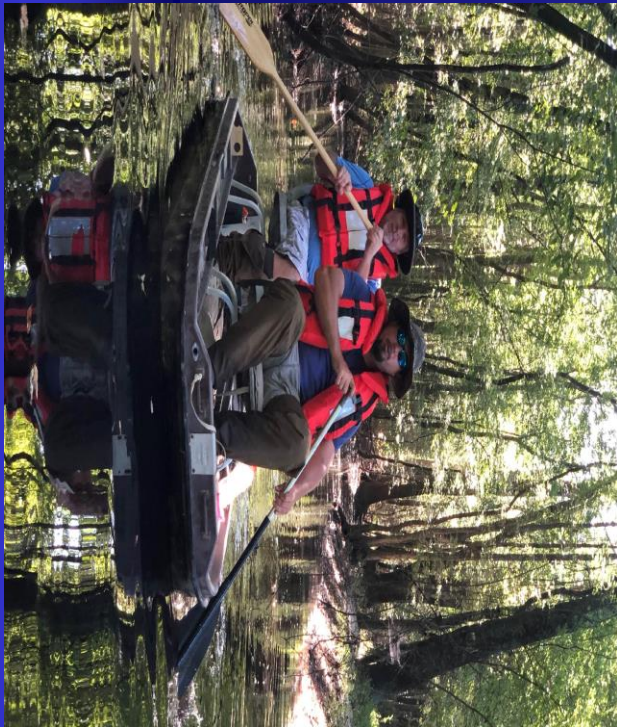
Additional options for debris disposal are to chip or burn the debris. Permits and liability are the applicant responsibility



Or you can move it to another disposal site outside the floodplain



After you complete the work, on a creek segment, an inspector Representing the Division of Soil and Water will inspect the work. If all is good, He/She will sign off for the applicant to submit payment



Streamflow Rehabilitation Assistance Program Project Invoice Form (ver. 1, 4/2022)
Heather.Baehner@dcnr.gov **DO NOT AN SRP**

Please fill in Parts 1-7 and send, along with necessary checks, to: Heather.Baehner@dcnr.gov	
1 Name/ Organization Name	Streamflow Rehab Project
Invoice #	Payment Authorization Tax ID #
Contract Number	PO Line
Contract Expiration Date	Payment Amount
Request No.	Date
Contract Amount	Amount contract funds Remaining
Activity	Previously Spent from contract Budget
Contract Budget	Total spent to date from contract Budget
SRSP Contracts	Amount Requested this Invoice
ALL MATCHING FUNDS:	
Activity	Budgeted Match
Cash	Previously Reported Matching Funds
Matched	Total matching funds to date
Totals	Total matching funds to date
Progress on Stream Segments:	
Segment Description (Please refer to Scope of Work) Please add rows as needed	Feet Planned for Treatment
	Feet of Stream Completed this Invoice
	Total Feet of Stream Completed
	Beaver Dams Removed
Totals	0
Progress on PL-286 Waterflow Structure Improvement:	
Planned Improvement (Please refer to Scope of Work) Please add rows as needed	Description of Completed Action
	Extent of Completed Action (e.g., cu. yd. of sediment removed)
Totals	0
Administration/Technical Assistance (Not to exceed 15% of total approved contract funds, not including matching funds)	
Admin allowed (15% max)	Admin Previously Invoiced
Salary/Benefits	Equipment
Supplies	Total Admin this Invoice
Total	Total Admin Invoiced to Date
Submitted by:	
Title	
Signature	
E-mail Address	
Telephone Number	
DSWC Project Inspection Certification	
I certify that I have inspected the work completed and reported on the progress report and recommend approval of payment for this invoice.	
Signature of DSWC or NRCS certifying official	Date

Please direct questions about this form to Heather Baehner, at (919)727-3748 or Heather.Baehner@ncag.gov

Additional info good to Know..

15% of what
you spend can
go to
administrative
cost

Example: If you
spent \$1000, \$150
could be
administrative cost



What are examples of administrative cost ?

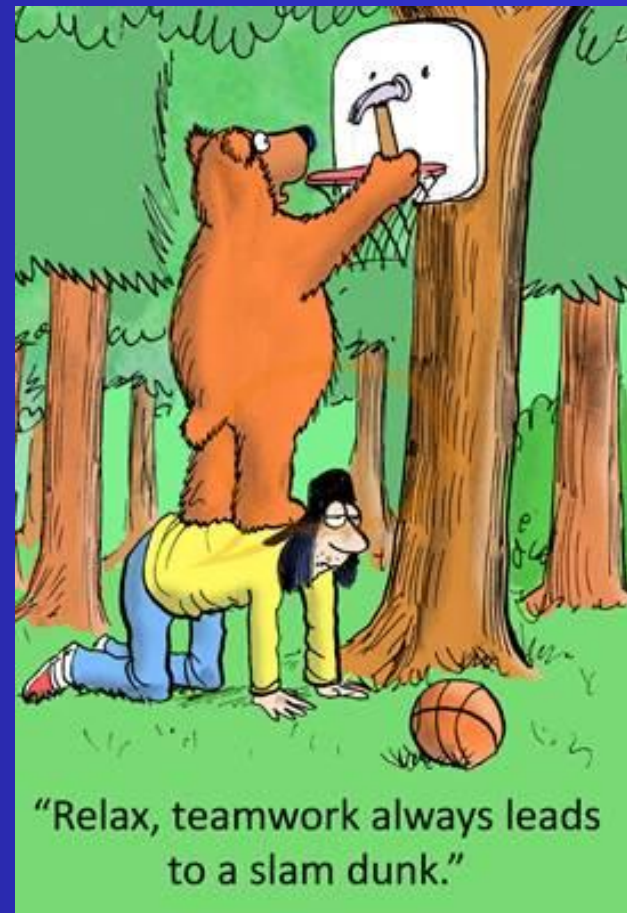
- Equipment for local inspector to do inspection, such as small boat
- Additional personnel
- Engineering assistance
- Office supplies needed for bid packages

If you have an expense in the administration of StRAP, and you are not sure it will quality, let us know and we will evaluate



Each applicant is required to do the following:

- Complete & submit application
 - Oversee project
 - Provide site inspections
- Provide report to include pre & post pictures
- Secure contractor as needed
 - Secure permits
- Secure access & rights-of-way
 - Manage removal material
 - Sign off for request for payment



Questions?

