

# 2019 CWMTF Stream Restoration Application

## SECTION 1. APPLICANT INFORMATION

|     |                                                                                               |                                           |        |                                |
|-----|-----------------------------------------------------------------------------------------------|-------------------------------------------|--------|--------------------------------|
| 1.1 | Organization Name                                                                             | Piedmont Conservation Council, Inc        |        |                                |
| 1.2 | Applicant Type                                                                                | Non Profit                                |        |                                |
| 1.3 | Person from the applicant's organization that will administer the grant contract, if awarded: |                                           |        |                                |
|     | Name                                                                                          | Grace Messinger                           |        |                                |
|     | Title                                                                                         | Project Director                          |        |                                |
|     | Address 1                                                                                     | 201 E. Main St., Rm 257, Durham, NC 27701 |        |                                |
|     | Phone                                                                                         | 484-554-4076                              | E-mail | grace@piedmontconservation.org |
| 1.4 | Person that CWMTF Field Representative should contact for application review:                 |                                           |        |                                |
|     | Name                                                                                          | Paul Brown                                |        |                                |
|     | Title                                                                                         | Construction Services Director            |        |                                |
|     | Phone(s)                                                                                      | 919.956.4475                              |        |                                |
|     | E-mail                                                                                        | paul.brown@self-help.org                  |        |                                |

## SECTION 2. PROJECT INFORMATION

|     |                                    |                                                                             |  |  |
|-----|------------------------------------|-----------------------------------------------------------------------------|--|--|
| 2.1 | Project Name                       | North Buffalo Creek at Revolution Mill - River Corridor Restoration Project |  |  |
| 2.2 | Project Duration ( <i>months</i> ) | 24                                                                          |  |  |
| 2.3 | Primary County                     | Guilford                                                                    |  |  |
| 2.4 | Other County                       |                                                                             |  |  |

|     |                                                                                                                                                                   |           |            |            |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|------------|
| 2.5 | Project Coordinates                                                                                                                                               |           |            |            |
|     | <i>Note: Please use Decimal Degrees from <a href="http://www.latlong.net">www.latlong.net</a> or similar site. Please test the coordinates before submitting.</i> |           |            |            |
|     | Latitude:                                                                                                                                                         | 36.098108 | Longitude: | -79.777760 |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| 2.6 | Narrative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
|     | <i>CWMTF recognizes that every project is unique. Under each heading listed below, address the topics and add additional information as necessary to explain your project. Be thorough and concise. Narratives are expected to be 1-2 pages in length.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |
|     | <b>SCOPE OF WORK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
|     | <i>The scope of work should outline all project tasks that you are responsible for completing. List measurable tasks that will be completed as part of this project, and any tasks that will continue afterwards (such as monitoring). Include tasks to be completed with <u>both</u> CWMTF funds and matching funds. Be clear, concise and complete as CWMTF will use this information to develop any grant contract that may result from this application.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|     | <p>This project will involve the detailed design, permitting, and implementation of an innovative river corridor restoration project in an intensive urban environment. Located at the repurposed Revolution Mill complex, the completed stream restoration project will be the finishing touches on reversing the past negative environmental impacts of the former mill. The project, located on a designated Brownfields site, will include stormwater, stream restoration, greenway access, and educational elements. The unique setting of the project will ensure that it is easily accessible and reaches large numbers of people. The project will be a partnership between the Self-Help Ventures Fund dba Historic Revolution, LLC, Piedmont Conservation Council, and the City of Greensboro, all of which will be providing matching funds for the work. The completed project will restore 2,000 linear feet of dramatically impacted urban stream and implement innovative stormwater controls that will improve treatment from 45 acres of high intensity development. The restoration work will feature in-stream structures that will be highly visible from three pedestrian bridges. It will also include unique improvements that will be</p> |  |  |  |

implemented as the stream passes underneath one of the mill buildings. The matching work for this project will include a completed greenway along the entire length, the removal of an existing bridge, cash match from the City of Greensboro and the local Tannenbaum-Sternberger Foundation. Self-Help has also committed to interpretive signage design and installation as an added value to the work. The complete scope of work for this project will include: 1. Full size design plans and specifications documentation suitable for construction and bidding; 2. Engineer's estimate of probable cost; 3. Supporting modeling and design calculations; 4. Permitting, 5. Project administration, 7. Project construction and oversight.

The largest portion of the requested CWMTF funding will go towards the design and construction of the project work. Resources are also needed for acquisition of all necessary permits (including USACE 401, NCDEQ 404 approvals, FEMA floodplain development (CLOMR), NCDOT approval, NC Erosion and Sediment Control, local approvals, and possible railroad corridor approval).

### PROJECT DESCRIPTION AND NEED

*Project description should include the location, setting and size of the proposed (watershed, landmarks, project length, etc.); observations and/or monitoring data that identify a problem; connections to other restoration projects or protection efforts; why this project is needed; and how the proposed project will solve the problem. Also, discuss the ecological significance of the project area, with an emphasis on aquatic resources.*

The restoration of North Buffalo Creek at Revolution Mill offers the opportunity to turn a formerly neglected and polluted waterway into a healthy urban stream. Revolution Mill opened in 1898 and by 1930 was the largest flannel mill in the world and the heart of a thriving company-constructed village. However, by 1982 it had closed, a result of the deindustrialization that hit communities across the nation. This project reflects an opportunity to reverse over a century of degradation and neglect.

North Buffalo Creek drains a large portion of Greensboro and is on the 303(d) list. The stream is listed for a range of contaminants, nutrients, turbidity, fecal coliforms, and poor benthos. The damage done to this creek by development, industry, and legacy waste streams is well documented. The City has partnered on multiple projects in the watershed and is actively pursuing others. This project is an opportunity to complete an extensive restoration with a single business property owner and provide an example that can be leveraged throughout the drainage area.

This particular stretch has been dramatically altered by digging, straightening and past flood control efforts. The construction of road crossings, railroad crossings, and utility corridors further deepened and disconnected the stream from its floodplain. The response to channel incision was bank armoring which is evident throughout the reach. Concrete, timber piles, and other techniques are visible along the banks. Two major buildings of the former mill were built over the stream, with footings extending into the stream bed. Presumably, this was for easy access to water and, unfortunately, for dumping of industrial waste directly into the stream. The combined effect has resulted in a stream with little to no habitat complexity, actively eroding banks, and a dramatic list of impairments. The reach also suffers from generally poor access and appearance, preventing the stream from being an asset and destination for public users. The restoration of this reach would bring needed attention to urban streams and be an example of what is possible at multi-use settings.

### WATER QUALITY OBJECTIVES AND HOW THEY WOULD BE ACHIEVED

*Describe the objectives of the project in terms of protecting or improving water quality. Detail efforts to improve hydrology, hydraulics, water quality, and/or habitat based on restoring the maximum natural functional potential to the project area. Include the square foot area of degraded land to be restored and/or the number of linear feet of stream to be restored, enhanced and/or stabilized.*

The project is anticipated to reduce the annual sediment load by 430 tons based on an estimate of project length/bank protection. This estimate was developed using a combination of BEHI and the BANCS model of erosion prediction. The streambanks along this reach will be stabilized with a mixture of toe protection, bank sloping, and bioengineering such as vegetated geolifts. Native plantings will be used in all areas and maintained for establishment. The installation of constructed riffles and cross vanes will provide needed habitat improvements for fish and macrobenthos. Coarse substrate riffle material is completely absent along this reach and few substantial pools exist. The implementation of brush toes or other woody bank stabilization measures will add additional complexity and habitat features.

The project team is also proposing stormwater improvements to the existing 10,000 sq. ft. concrete detention. A set of floating islands will be installed to provide wetland functionality. This highly visible area surrounding a restaurant deck will be

an excellent example of low impact development type stormwater installation and treatment. Additional outfall protections are also planned along the stream reach that will include stabilized stone and wetland plantings.

A unique aspect of this project is a stretch of the river that passes below two buildings. The floodplain below the buildings is a dynamic sediment deposition area. This area is an opportunity for an outside the box stability solution. The area may be an excellent place to experiment with mosses, ferns, mushrooms, or other vegetation that can survive with limited sunlight. The future renovation of the above building is a further opportunity to implement ideas with lighting, transferring natural light, or viewing the stream below.

PCC and project partners will engage local academic institutions to obtain qualified graduate students to assess the project benefits. This will include an analysis of fish and wildlife impacts, stream stability, visitor frequency and greenway usage. We will prepare a report for distribution to all project supporters.

### OTHER PUBLIC BENEFITS

*Describe any public benefits of the project related to public access, facilities for recreation, specific scientific opportunities and/or directed educational opportunities.*

This project will be accessible on a scale rarely encountered with stream restoration. The redeveloped property is home to over 100 commercial companies, 200 apartment residents, and has 750 visitors every day! This number is set to increase substantially over time as other buildings are completed to include additional mixed uses such as a hotel or additional apartments. Most visitors to the retail businesses must cross one of the pedestrian bridges and all will have a unique view of the completed project and signage.

The restoration of North Buffalo Creek has the potential to bring together positive environmental, health, social, economic and historic preservation impacts. The project will deliver the diverse benefits of restoring habitat, improving water quality, creating access to a currently inaccessible waterway, and creating a destination for greenway users and nearby low-income residents. The specific public outcomes include:

- 1) Plantings and stream improvements that create and enhance habitat for a wide range of wildlife
- 2) Complementing the benefit of a nearby 11 acres Audubon Society natural area (just ¼ mile to the south), which has created habitat for great blue herons, kingfishers, deer and foxes
- 3) The health benefits of providing a destination and stopping point on the Latham Park Greenway, which will eventually connect to downtown Greensboro approximately 1.5 miles to the south
- 4) A pedestrian link to a nearby, in-progress affordable housing development at the former Printworks Mill, providing a health and recreation amenity for low-income residents
- 5) Educational benefit from nature interpretation, learning about stream ecology and local wildlife, linked to the local history educational opportunity in the nearby Revolution Mill history gallery
- 6) Complementing the economic benefits of Revolution Mill, by creating an amenity that will help attract and retain businesses and residents, creating positive job and tax base impacts
- 7) Demonstration of a public/private/non-profit/philanthropic partnership, which we hope will include the City of Greensboro, Self-Help, private mill investors, state funding and local and regional foundations

The complete North Buffalo Creek greenway will connect a large length of stream throughout northern Greensboro. Planned spurs will allow pedestrians to access the stream and stream restoration structures from the greenway. This will further connect the public to the creek and the finished project.

## SECTION 3. RESOURCE SIGNIFICANCE

### 3.1 Receiving Waters

*CWMTF staff will review the stream classification, biological stream rating and 303(d) status using the most recent data from the Division of Water Resources (DWR).*

| Name of Receiving Water(s) | DWR Stream Classification | DWR Biological stream rating | 303(d) Y/N |
|----------------------------|---------------------------|------------------------------|------------|
| North Buffalo Creek        | WS-V;NSW                  | Poor                         | Yes        |



3.2 Aquatic Habitat - *Mark any of the following that apply directly to the receiving waters, or within one mile downstream of the proposed project.*

- Streams supporting species listed as Federally Threatened or Endangered
- Division of Coastal Management exceptional wetland
- Division of Water Resources unique wetland
- Division of Marine Fisheries Primary Nursery Areas
- Inland Primary Nursery Areas identified by the Wildlife Resources Commission
- Wildlife Resources Commission Wild Trout
- Division of Marine Fisheries Shellfish Area

3.3 Source Water Assessment Program - *Mark if the following apply to the project area.*

3.4 Protection or Improvement of Water with Special Uses - *Mark any of the following that apply directly to the receiving waters, or within 1 mile downstream of the proposed project.*

- Not Applicable
- National Scenic Waters
- National Heritage River
- National Seashore, National or State Park, National Wildlife Refuge, Coastal Preserve

3.5 Location Relative to Existing and Future Public Drinking Water Supply - *Check all that apply.*

- Existing surface drinking water supply (reservoir or intake) within 1 mile downstream
- Future surface drinking water supply that has received Record of Decision (reservoir or intake) within 1 mile downstream
- Future surface drinking water supply (reservoir or intake) within mile downstream, which has Division of Water Resources concurrence
- None of the Above

If the project location is near a water supply, please provide a brief description (e.g. river intake, reservoir, etc.) and location of the existing or future water supply.

## SECTION 4. PROJECT INFORMATION

4A Project Need and Vision

4A.1 Need for the project, considering existing stream conditions and/or conditions in the project catchment areas:

a) Describe the source, extent and probable causes of instabilities or impairments.

Project is at the site of a former flannel mill. Cause of impairment is over 100 years of mill operations, digging, crossings, bank damage, and potential waste streams. On-going impacts include lack of vegetation, eroding banks, and missing bed habitat.

b) Describe observations and any monitoring conducted to identify any actual or potential cause(s) of impairment.

Kris Bass Engineering has completed visual site assessments, streambank assessments, including photo documentation.

4A.2 Assuming the proposed project's outcomes would be highly successful, describe conditions that would reveal success.

Visible habitat improvements, established vegetation, evidence of regular access and public use.

4A.3 Describe alternatives to the proposed project that were considered. Explain why you chose the proposed project.



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4C Local Measures to Protect Water Quality - Check any of the following items that apply to local water quality protection currently in effect in the project's watershed:

- Local protection includes stormwater management program, ordinances, and/or planning; and local buffer, wetland and/or floodplain ordinances
- Local protection includes either stormwater management program, ordinances, and/or planning; and local buffer, wetland and/or floodplain ordinances
- No protection ordinances are in place

Identify and describe local ordinances the community has implemented or will implement to control and treat stormwater or protect wetland or riparian areas. Include a description of the effects these ordinances might have on the proposed project, or vice versa.

All new development on the site is subject to local stormwater requirements and will protect the project in the future. The completed design will be subject to local floodplain rules and approvals.

4D Watershed Stability

| 4D.1 Current Land Use - complete the following table: | % land cover in catchment area | Number of acres in catchment area |
|-------------------------------------------------------|--------------------------------|-----------------------------------|
| Forest                                                | 1.00%                          | 99                                |
| Agriculture                                           | 0.00%                          |                                   |
| High Density Residential                              | 6.00%                          | 590                               |
| Low Density Residential                               | 60.00%                         | 5,900                             |
| Development                                           |                                |                                   |
| Commercial or Industrial                              | 30.00%                         | 2,950                             |
| Other                                                 | 3.00%                          | 295                               |
| Total                                                 | 100%                           | 9,834                             |

If **OTHER** was completed in Table 4D.1 above, please explain:  
golf courses and parks

4D.2 Select the choice that most accurately describes the expected change in land use over the next 20 years:  
*Little to no change is expected because the area is already fully developed as urban/suburban*

4E Consistency with DWR Basinwide Plan, Division of Mitigation Services Planning, other surface water state agency plans. If you are aware of any plans that mention the project area, please reference below.

Plan Title No. 1:  
Cape Fear River Basin Restoration Plan (2009)

|                                                                                                |                                                                                          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Mark any of the following that apply to the proposed project and the related state agency plan |                                                                                          |
| <input type="checkbox"/>                                                                       | Project site work is explicitly mentioned as needed                                      |
| <input type="checkbox"/>                                                                       | Project type is mentioned as beneficial to pristine or nutrient sensitive waters         |
| <input checked="" type="checkbox"/>                                                            | Generally, supports goals of the Basinwide Plan or other surface water state agency plan |
| <input type="checkbox"/>                                                                       | No connection to surface water state agency plan                                         |

For the plan referenced above, provide the plan date; specific page reference to the proposed project; and explanation, quotation, or excerpt from the plan; and explain how the proposed project is strategically related to the referenced long-term or regional management plan.

- labeled as a Targeted Local Watershed, though no plan has been developed

|                   |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| Plan Title No. 2: | Fecal Coliform Total Maximum Daily Load for the Upper North Buffalo Creek Water |
|-------------------|---------------------------------------------------------------------------------|

|                                                                                                |                                                                                          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Mark any of the following that apply to the proposed project and the related state agency plan |                                                                                          |
| <input type="checkbox"/>                                                                       | Project site work is explicitly mentioned as needed                                      |
| <input type="checkbox"/>                                                                       | Project type is mentioned as beneficial to pristine or nutrient sensitive waters         |
| <input type="checkbox"/>                                                                       | Generally, supports goals of the Basinwide Plan or other surface water state agency plan |
| <input checked="" type="checkbox"/>                                                            | No connection to surface water state agency plan                                         |

For the plan referenced above, provide the plan date; specific page reference to the proposed project; and explanation, quotation, or excerpt from the plan; and explain how the proposed project is strategically related to the referenced long-term or regional management plan.

|                   |  |
|-------------------|--|
| Plan Title No. 3: |  |
|-------------------|--|

|                                                                                                |                                                                                          |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Mark any of the following that apply to the proposed project and the related state agency plan |                                                                                          |
| <input type="checkbox"/>                                                                       | Project site work is explicitly mentioned as needed                                      |
| <input type="checkbox"/>                                                                       | Project type is mentioned as beneficial to pristine or nutrient sensitive waters         |
| <input type="checkbox"/>                                                                       | Generally, supports goals of the Basinwide Plan or other surface water state agency plan |
| <input type="checkbox"/>                                                                       | No connection to surface water state agency plan                                         |

For the plan referenced above, provide the plan date; specific page reference to the proposed project; and explanation, quotation, or excerpt from the plan; and explain how the proposed project is strategically related to the referenced long-term or regional management plan.

**4F Project Details and Objectives**

4F.1 What type of project are you proposing? Mark all that apply

|                                                        |                                                          |                                           |
|--------------------------------------------------------|----------------------------------------------------------|-------------------------------------------|
| <input checked="" type="checkbox"/> Stream Restoration | <input checked="" type="checkbox"/> Stream Stabilization | <input type="checkbox"/> Wetland Creation |
| <input checked="" type="checkbox"/> Stream Enhancement | <input type="checkbox"/> Agriculture BMP                 | <input type="checkbox"/> Other            |
| <input type="checkbox"/> Wetland Restoration           | <input type="checkbox"/> Wetland Enhancement             |                                           |

If Agricultural BMP(s) and/or Other were checked, please provide a description of the BMP or other project.





B4-B4c

4F.7 Describe how the following stream features will be modified (by stream reach, as appropriate)

4F.7a. Dimension

Dimensions will be altered through bankfull benching, sloping, and bed modifications. This will counter historic over-widening and vertical incision

4F.7b. Pattern

Lateral constraints will prevent major pattern modification

4F.7c. Profile

Profile will be restored through the installation of cross vanes and constructed riffles, with corresponding pools. This will provide a more natural riffle-pool sequence along the reach.

4F.8 Ecological lift – Complete fields after selecting Option 1 OR Option 2. Only one option will be scored.

4F.8. **OPTION A** - Predict Ecological Uplift through Sediment Load Transport Reduction - For projects with more than one project site, provide information for each project site.

4F.8A.1 Estimated annual sediment reduction (tons/year)

430

4F.8A.2 Calculations showing how the annual sediment reduction was determined. *It is also possible to upload the calculations as an attachment in the Grants Management System.*

BEHI/BANCS model. see attachment

4F.8A.3 Other pollutant reduction: Describe and provide calculations or other basis for determining other pollutant reductions. *It is also possible to upload the calculations as an attachment in the Grants Management System.*

4F.8 **OPTION B:** Predict Ecological Uplift through approved models. Estimate habitat uplift by determining the percentage of project length or area that is predicted to receive significant habitat improvement. Use a CWMTF approved assessment to determine existing habitat conditions as described in the Restoration Guidelines Document to determine the percent of the existing project that does not contain functioning habitat and the percentage that contains habitat of limited function. - *For projects with more than one project site, provide information for each project site.*

4F.8B.1 Which ecological uplift model did you use? Were there any aspects of the model that you feel did not address predicted uplift?

4F.8B.2 Uplift data:

| Reach name or number | Reach Length (ft) | Present Habitat Condition | Predicted post-project habitat condition |
|----------------------|-------------------|---------------------------|------------------------------------------|
|                      |                   |                           |                                          |
|                      |                   |                           |                                          |
|                      |                   |                           |                                          |
|                      |                   |                           |                                          |

**NOTE:** Assessment model data and results must also be uploaded to the GMS system.

If needed, describe additional reaches and habitat condition below:

4F.9 List deliverables/outputs to be completed for each task named below

4F.9a. Design/construction documents/construction bids

Full set of engineering design plans, specifications, and contract level bidding documents

4F.9b. Permit preparation

401/404, erosion control, floodplain development permits as well as coordination with utilities and railroad as needed.

4F.9c. Easement acquisition/preparation/recordation

Easement preparation and recording will be provided by the owner as a matching service.

4F.9d. Construction

Fully completed and planted restoration project. Construction of greenway and other improvements will be completed as match.

4F.9e. Other

Owner is committed to providing signage as a matching item.

## SECTION 5. OTHER PUBLIC ACCESS

5A Provides Recreational Uses and Public Access

- Plan includes improvements to recreational uses related to water (e.g. fishing, boating) and the recreational uses would have public access
- No recreational component

5B Provides Public or Scientific Education

- Part of an organized educational effort open to public educational institutions. This effort would include active promotion by outreach, which could include a presence on the internet (e.g. website) and also signage, etc. at the project site
- No educational component

5B.1 Briefly explain the educational efforts, if applicable.

Owner has committed to design and implementation of interpretative signage, educational outreach

5C Provides Development of Riparian Greenway

- Will establish a greenway system or add to an existing greenway as part of this project
- No greenway to be developed

5C.1 Briefly explain the development of the riparian greenway, if applicable.

Greenway plans are complete and installation is expected in 2019. Will connect to Latham Park Greenway Trail

5E Project Maintenance: Please provide the name of the organization that will inspect the project site and conduct maintenance and repair features as needed.

Self-Help will commit to post project maintenance. Kris Bass Engineering will provide inspection services.

5F Water Quality Monitoring: If water quality monitoring is proposed as a matching contribution, please describe who would conduct the monitoring, what parameters would be monitored, what methods would be used, and a timetable for the monitoring.

Self-Help is committed to pursuing monitoring opportunities with local university personnel, but a specific plan has not been developed.

## SECTION 6. LONG TERM AGREEMENTS

6A Provide the name of the proposed holder of the conservation easement.

City of Greensboro

6B Schedule of Property Interest

The Schedule of Property Interest table is part of the project budget, which must be completed using the on-line Grants Management System.

## SECTION 7. READINESS AT THE DATE OF THE PROJECT APPLICATION

7A Plan and Design Status *Attach documents if applicable*

Existing conditions survey completed, reference site identified, and conceptual plans developed

7B Grant Withdrawal *Pursuant to N.C.G.S. 143B-135.238(f), if the project includes construction, this grant award shall be withdrawn if the grant recipient fails to enter into a construction contract for the project within one year after the award date.*

YES, applicant commits to entering into a construction contract within one year of the award date

NO, applicant cannot commit to entering into a construction contract within one year of award date

## SECTION 8. BUDGET

The Project Budget shall be completed using the online Grants Management System (GMS). Please log on at [www.ebs.nc.gov](http://www.ebs.nc.gov) and select New Application from the Home Page. Detailed guidance for completing the project budget can be found in the [CWMTF Stream Restoration Application Questions and Guidelines](#)

8A Identify any costs to be incurred before CWMTF grant award decisions for which you would request approval of matching funds.

A bridge removal that was recently completed is proposed as a part of the match. This removal was an important part of the overall restoration and was required to make the downstream area accessible for in-stream structures, bank repairs, and greenway construction.

## SECTION 9. ATTACHMENTS

You are required to upload application attachments using the on-line Grants Management System. Once you have completed this application form and assembled all other required documents, use the on-line GMS to complete the project budget and upload application attachments. Attachments should be uploaded as individual documents with a description using the following naming convention: Project Name\_type of document (e.g. Smith Creek\_Application Form). Project name on the description should match the project name in Section 1 of this application.

- Application Form
- Location Map
- Property Map
- Letter of Intent (if applicable)
- Survey Map (if applicable)
- Sediment Calculations (if applicable)
- Uplift Model (if applicable)

By checking this box, I affirm that the information in this application and the statements and attached exhibits are true, correct, and complete to the best of my knowledge and belief. I further confirm that I am authorized by my governing board to submit an application and enter into any grant contract that may result from the application.