

## **REQUEST FOR BOARD ACTION**

### **HENDERSON COUNTY BOARD OF COMMISSIONERS**

**MEETING DATE:** February 5, 2007

**SUBJECT:** Lewis Creek Water Management Project

**ATTACHMENTS:** Yes

**SUMMARY OF REQUEST:**

Attached you will find a letter from Suzanne Hohn, Outreach Coordinator for the Carolina Mountain Land Conservancy. Ms. Hohn will be present for this evening's meeting to request that Henderson County sponsor a second grant application for a water management project within the Lewis Creek Nature Park. The Board of Commissioners sponsored an initial grant for this project in January 2006. This second grant will further the activities addressed in the initial grant by addressing storm water management and treatment in and near the Lewis Creek Nature Park. The grant application is attached. Sponsorship of this project requires no County funding.

**BOARD ACTION REQUESTED:**

Staff recommends adoption of the attached resolution, sponsoring this grant application.

**Suggested Motion:**

*I move the adoption of the attached resolution supporting the Lewis Creek Water Management Project grant application.*

January 25, 2007

William Moyer  
100 North King Street  
Hendersonville, North Carolina 28792

Dear Chairman Moyer:

You may recall that last January, the Henderson County Board of Commissioners approved a resolution showing their support for a grant application to the Division of Water Resources (DWR) for a Lewis Creek Restoration/Nature Trail Project. The project is managed by Carolina Mountain Land Conservancy. We are submitting a second grant to the Division of Water Resources for a Water Management Project. This project will build on activities covered by the first grant by addressing stormwater management and treatment in and near Lewis Creek Nature Park.

We would like to ask the Board of Commissioners to show their support for this second grant by again passing a Resolution sponsoring this project. I am enclosing a copy of the grant application, which describes the project, and a copy of the Resolution.

We would be very appreciative if this Resolution, if acceptable to the Board, could be passed at an upcoming meeting. Please let me know if you have any questions or if there are any other materials that I should provide.

Sincerely,  
Suzanne Hohn  
Outreach Coordinator

Enclosures

cc: Chuck McGrady

**Henderson County Board of Commissioners**  
***Water Management Project* for**  
**Lewis Creek Nature Park**

Water Resources Development Project Grant Program Application

The North Carolina Department of Environment and Natural Resources, Division  
of Water Resources

December 8, 2006

Water Projects Section  
Division of Water Resources  
North Carolina Department of Environment and Natural Resources  
1611 Mail Service Center  
Raleigh, N.C. 27699-1611  
(919) 733-4064

Project Sponsor:  
Chairman William Moyer  
Henderson County Board of Commissioners  
100 North King Street  
Hendersonville, North Carolina 28792

Project Location:  
Downtown Hendersonville

Prepared by:  
NCSU Water Quality Group

Contact Information:  
Jon Calabria, Landscape Architect, North Carolina State University  
hosted by:  
The North Carolina Arboretum  
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Water Resources Development Project Grant Program Application

## APPLICATION PACKAGE

### 1. Official Resolution

Please refer to enclosure at the end of the application.

### 2. Project Narrative

The Hendersonville Board of Commissioners is requesting financial assistance in the amount of \$62,000 to construct a water management project near the community of Edneyville. The project will reduce impacts from nonpoint source water runoff by reducing peak flows of small storm events, removing nutrients and sediment entering a rare Southern Appalachian Bog that is impacted by agricultural and residential land uses. An ephemeral stream connecting a series of descending pools heads up within a neighboring pasture and is heavily disturbed by cattle. After exiting the pasture the drainage receives further discharge from stormwater run-off coming from homes and streets located in The Meadows at Lewis Creek subdivision, which is contiguous with the periphery of the bog. The 6.5-acre bog is conserved within the Lewis Creek Nature Park, an 8.6-acre park located off North Ridge Road within the floodplain of Lewis Creek.

The Lewis Creek Nature Park is owned by the Carolina Mountain Land Conservancy (CMLC), a non-profit local land trust, and is protected by a conservation easement. The park is a portion of a trail system that is planned through the Edneyville community that will eventually connect with other residential developments. The water quality in the bog is directly affected by the new housing development and the cow pasture, emphasizing the need for stormwater management in the headwaters and habitat restoration in the riparian corridor. CMLC recently signed an option with the North Carolina Ecosystem Enhancement Program to stabilize and restore meanders in 1,500' of Lewis Creek. The Conservancy proposes to augment stream restoration with stormwater management projects on various landowners property that drain to the Bog and Lewis Creek.

### 3. Project Plan and Location Map

CMLC has obtained the agreement of the developer of The Meadows at Lewis Creek to construct stormwater management measures on private property. Run-off will flow into integrated stormwater management practices before continuing downstream to the bog. Stormwater run-off from streets, rooftops, and lots under construction will be channeled into rain gardens planted with native species. The bioretention pond and rain gardens will create a network of connected features that will incrementally improve water quality before it enters the bog. The water level in the bog will be controlled with water control structures. The outcome of the implementation phase will increase the habitat potential of the overall site and

Water Resources Development Project Grant Program Application

bog/wetland. The project will create habitat for pollution-sensitive flora and fauna, and enhance the enjoyment of visitors to the Lewis Creek Nature Park.

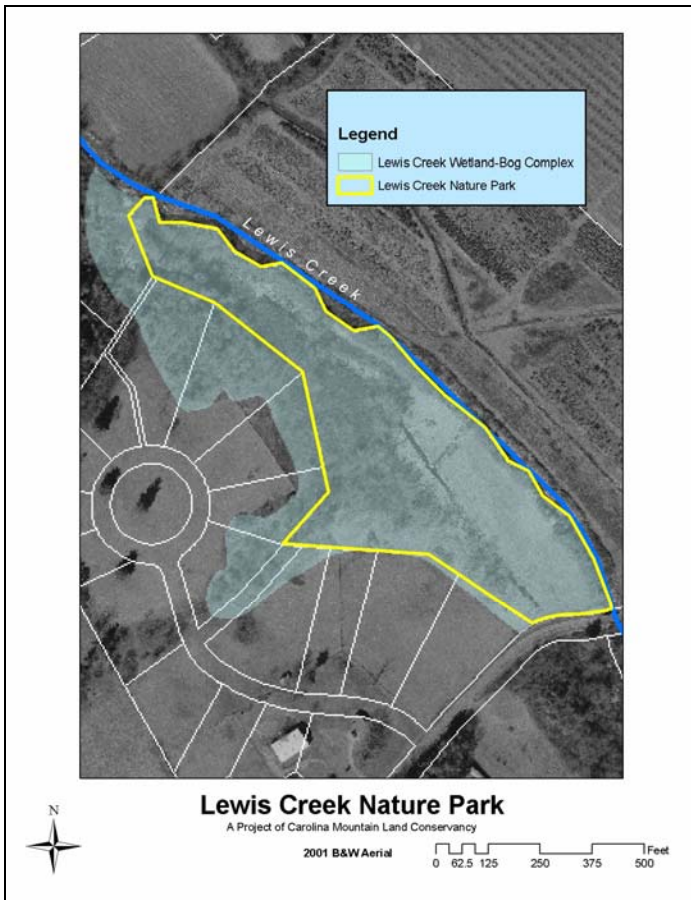


Figure 1. Aerial photograph showing project location

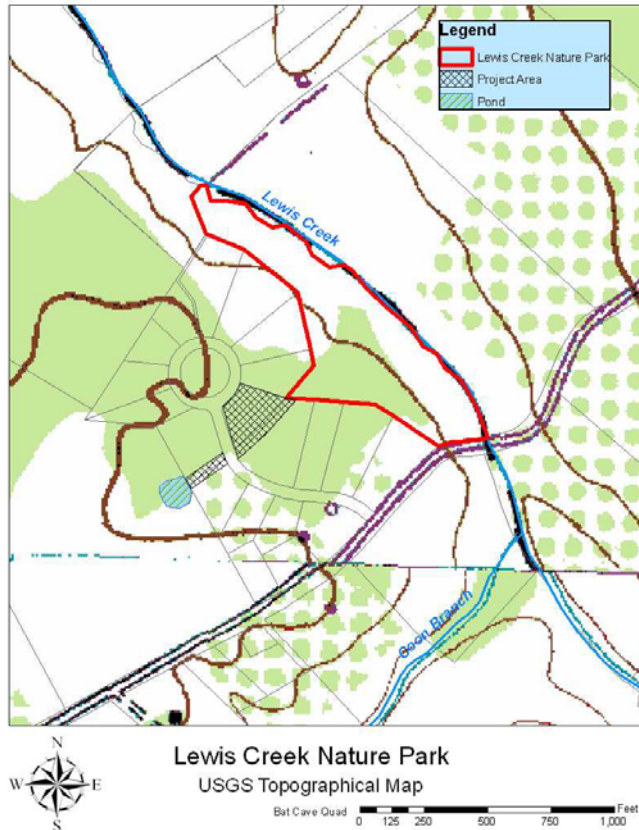


Figure 2. Topographic map showing location.

#### 4. Project Budget

The total project cost is \$93,000 and the grant request is for \$62,000 as illustrated below:

	DWR	Local	Total
<u>Administration/Design/Permitting/Construction</u>	\$ 62,000	\$ 31,000	\$ 93,000

## RESOLUTION

WHEREAS, the Henderson County Board of Commissioners desires to sponsor the construction of stormwater treatment measures for the Lewis Creek Nature Park on behalf of NCSU Water Quality Group. The project would restore habitat, clean stormwater run-off, and enhance educational opportunities about water resources and stormwater management.

NOW, THEREFORE, BE IT RESOLVED THAT:

- 1) The Board requests the State of North Carolina to provide financial assistance to the County for the project in the amount of \$62,000 or 66 and 2/3 percent of project construction cost, whichever is the lesser amount;
- 2) The Board delegates NCSU Water Quality Group, as the sole partner for the administration and supervision of the project; and for obtaining the balance of the project costs;
- 3) Under the administration and supervisory responsibility of the project stated in item 2, above, NCSU Water Quality Group will be responsible for obtaining all necessary State and Federal permits;
- 4) The Board will see that NCSU Water Quality Group complies with all applicable laws governing the award of contracts and the expenditure of public funds;
- 5) Under the administration and supervisory responsibility of the project stated in item 2, above, NCSU Water Quality Group will assure compliance with permit conditions and will assure safe and proper construction according to approved plans and specifications;
- 6) The Board will assure that the project is open for use by the public on an equal basis;
- 7) The Board, the Carolina Mountain Land Conservancy, and NCSU Water Quality Group will hold the State harmless from any damages that may result from the construction, operation and maintenance of the project;
- 8) The Carolina Mountain Land Conservancy and appropriate landowners accept responsibility for the operation and maintenance of the completed project.
- 9) Participation in this project by the Board is contingent upon items 2, 3, 4, 5, 6, 7, and 8 above being completed by NCSU Water Quality Group. The Board will bear no responsibility for the grant deliverables or other items pertaining to the project should NCSU Extension not fulfill its obligations as outlined above.

Adopted by the Henderson County Board of Commissioners  
on this \_\_\_\_ day of \_\_\_\_\_, 2007.

\_\_\_\_\_  
Chairman, Henderson County Board of Commissioners

Water Resources Development Project Grant Program Application