

**U.S. Army Corps of Engineers
Fiscal Year 2016
Handshake Program Application**

Please review instructions before completing application!

Corps Lake/River Project Name: **Lake Sidney Lanier**
District / Division: **Mobile District - South Atlantic Division**
Handshake Proposal Title: **Island Rip-Rapp Proposal**
Corps POC Name: **Natural Resource Manager Nick Baggett**
Telephone: **(770) 945 - 9531 ext. 3283**
E-Mail: **Nicholas.S.Baggett@usace.army.mil**

A. Checklist:

1. Will the Handshake funds be spent on Corps facilities and resources that are being fully maintained by the Corps? ☒ **Yes** ☐ **No**
 2. Will the Challenge Partnership agreement be with a non-federal public or private entity(ies)? ☒ **Yes** ☐ **No**
 3. Is the proposed activity within current authorities and contained in the annual or 5-year work plan in the approved lake project OMP? ☒ **Yes** ☐ **No**
 4. Have all of the NEPA requirements been considered for this project? ☒ **Yes** ☐ **No**
 5. Did you participate in a Handshake Webinar in 2015 or review a 2015 Handshake Webinar on the Gateway? ☒ **Yes** ☐ **No**
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B. Handshake Funding Request (maximum \$30,000): \$30,000

- C. Cooperating Association Agreement Bonus:** Challenge Partnerships that include a Cooperating Association with which your project/district has entered into a Cooperating Association Agreement are eligible to compete for an additional \$5000. Do NOT include a copy of that agreement with this application. A copy may be requested if not already provided to the Partnership Team. (Reference Chapter 9 of ER and EP 1130-2-500 for information on cooperating associations).

☒ This application qualifies for the Cooperating Association Bonus funding.

- D. Incentive Points Category:** Check the appropriate box if your application qualifies to receive bonus points on the evaluation score. The first category is for the partner contribution meeting or exceeding 70% of total project costs. A summary of the partners' contribution to the Handshake Project should be included in the financial worksheet below. The second category is for Lake or River Projects that have never been chosen as Handshake recipients.

☒ Partner contribution total is 70% or greater (100 points).

☐ This Lake/River Project has never received Handshake funding (100 points).

E. Describe your partnership and the proposed project:

Summary Statement of Handshake Project: Lake Lanier has approximately 692 miles of shoreline and more than 39,000 acres of water. The Lake also includes numerous islands which add to the character and overall beauty of the Lake. A recent study was conducted by representatives of the University of North Georgia Institute for Environmental and Spatial Analysis. This study evaluated 21 island locations in the southern half of Lake Lanier and determined that over the past 30 years these islands have lost an average of 11% of their land mass due to shoreline erosion. From an original land mass of 759,828 square meters, approximately 83,080 square meters has been lost to erosion.

Lake Lanier is one of the largest recreational use projects in the United States hosting over seven million visitors per year and providing drinking water for over four million people in the North Georgia region. Protecting an island area on Lake Lanier has an immediate benefit to the recreational users who will be using the lake for generations to come and will also enhance water quality. There are limited resources available for Lake Lanier projects.

This flagship project will repair and stabilize approximately 500 lineal feet of severely eroding island shoreline. This erosion comes as a result of waves generated by wind action and boat wakes. It also is impacted by varying water levels in the Lake throughout the year. This erosion generates siltation which reduces the water storage capacity of the reservoir. It will take approximately 810 tons of stone rip rap to accomplish this task. Marine Specialties, Inc. is a Corps approved vender who will install the rip rap. Blue Grass Materials is a stone quarry who will provide the stone needed for the project. The Lake Lanier Association (LLA) has identified this and other potential islands that are in need of repair. They also identify and coordinate with the necessary vendors needed to complete the project. The Buford Dam Project Offices' will issue the necessary permits for the work to be performed and oversee to ensure the work is performed in compliance with USACE Specifications.

Longevity / Sustainability description:

The expected life span of shoreline erosion repair is a minimum of 75 – 100 years.

Partnership Value:

The Buford Dam Project Office has partnered with the (LLA) on several initiatives to protect and preserve the reservoir. Examples of some of these initiatives include Shore Sweep which organized by the LLA and last year involved over 1,000 volunteers who removed over 40 tons of trash from the water. Other projects include the installation of Solar powered lights on lake hazard markers as well as the rip rap project. This project has already been considered, permitted and approved by the local project office but funding was not available to complete this initiative. The total cost for this project is \$65,170 of which \$35,170 of the funding comes from partners. Marine Specialties, Inc. will provide equipment, operators and labor to install the rip rap. They will also make an in-kind contribution of \$9,200. Bluegrass Quarries will provide a rock discount in-kind contribution of \$7,000 for rock purchased from them. Mr. Tommy Bagwell, a local business person and community philanthropist, will provide funding in the amount of \$15,250. The LLA will contribute \$2,720 in salary and volunteer time. The Elachee Nature Center will assist in the educational aspect of the program. The USACE Project Office has \$1,000 in salary cost. The Handshake grant provides \$30,000.

Recreational Benefit:

The Buford Dam Project Office has partnered with the (LLA) on several initiatives to protect and preserve the reservoir. Examples of some of these initiatives include Shore Sweep which organized by the LLA and last year involved over 1,000 volunteers who removed over 40 tons of trash from the water. Other projects include the

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Environmental Stewardship Benefit:

Protecting this eroding shoreline eliminates siltation from this island from entering the lake. It also eliminates the potential hazards of fallen trees entering the water. It protects environmental habitats for the land based creatures around the lake and keeps the ecosystem more in keeping with original design of the system. The Erosion Study completed by the University of North Georgia Institute for Environmental and Spatial Analysis concluded that on average islands in this lake have lost approximately 11% of the original land mass over the past 30 years. This resulted in over 83,000 square meters of soil from these select islands eroding into the lake. This siltation displaces water storage capacity which is a critical mission of this reservoir.

Communication & Education Value:

Publicity in local newspapers, lake related magazines and the quarterly Lake Lanier Association member newsletter will communicate to the public the Corps of Engineers commitment to shoreline preservation. This project supports the Corps Environmental Stewardship Program in that it is consistent with the stated benefits included those associated with managing natural resources in a healthy and sustainable condition, fostering healthy lands and waters by balancing public uses and needs, protecting our cultural heritage and providing public outdoor recreational opportunities. The Elachee Nature Center will also assist in the educational aspect of the program.

Innovativeness:

Unlike the lake shoreline which is bounded by private property owners who have a vested interest in protecting their adjacent shoreline. These property owners have the resources and motivation to install rip rap. Islands have no abutting property owners who might be willing to invest in the preservation of the island shoreline. The Lake Lanier Association which is a 501(c)3 non-profit organization has several outside partners who are making a substantial investment in this project which is noteworthy. This entire effort is in partnership with the Buford Dam Project Office which is seeking to protect public lands where there is no normal funding available to achieve this objective.

Concluding statement:

Protecting and preserving the shoreline is an important step in protect the overall lake. Lake Lanier is provides drinking water to the entire metro Atlanta area which has a population of over 5 million people. Reducing the amount of siltation caused by shoreline erosion helps maintain the water storage capacity need to support this large population.

Challenge Partnership Financial Work Sheet

Corps Project Name: Lake Sidney Lanier

Work Project Title: Abandoned and Derelict Docks and Vessels Program

POC Name: Nick Baggett

Address: 1050 Buford Dam Road City: Buford State: GA Zip Code: 30515

Telephone: 770 - 945 - 9531 x3283

Location of Project: 40 Miles North of the City of Atlanta, Georgia

Partner Organization 1: Lake Lanier Association

POC Name: Joanna Cloud, Executive Director

Address: 615F Oak Street, Suite 100 City: Gainesville State: GA Zip Code: 30501

Telephone: 770 - 503 - 7757

Partner Organization 2: Marine Specialties

POC Name: Tom Child, Owner

Address: 4105 Browns Bridge Road City: Gainesville State: GA Zip Code: 30504

Telephone: 770 - 531 - 7735

Partner Organization 3: Bluegrass Materials

POC Name: Patrick Malaney

Address: 2015 Ronald Reagon Boulevard City: Cumming State: GA Zip Code: 30041

Telephone: 678 - 215 - 3258

Proposed start date of work: 1st quarter 2016

Simple description of work to be accomplished through the partnership: Will provide for the repair of approximately 500 feet of severely eroding island shoreline on Lake Lanier.

Challenge Partnership Financial
Worksheet

Catergory	Local Corps Office	Handshake Funds	Marine Specialties, Inc.	Blue Grass Materials	Tommy Bagwell	Lake Lanier Association	Total
Salaries	\$ 1,000					\$ 2,000	\$ 3,000
Travel							\$ -
Materials and Supplies		\$ 30,000					\$ 30,000
Equipment Use							\$ -
Funds Contributed					\$ 15,250		\$ 15,250
Personal Property							\$ -
Volunteer						\$ 720	\$ 720
In-Kind Services			\$ 9,200	\$ 7,000			\$ 16,200
Other							\$ -
Total	\$ 1,000	\$ 30,000	\$ 9,200	\$ 7,000	\$ 15,250	\$ 2,720	\$ 65,170
Share of Total Cost	2%	46%	14%	11%	23%	4%	

(estimate)

(estimate)



The photos on this page are of the lake marker “4SM” island that is being proposed in this 2016 Handshake Application. The photos are taken from several different areas along the approximately 500 feet of shoreline proposed for rip rap.



Lake level in these photos is approximately 1068, three feet down from summer full pool of 1071. Installing rip rap in these areas would help protect this shoreline as lake levels fluctuate.







The two photos on this page are included simply as an example of a “before” and “after” rip rap installation project that has been recently completed on Lake Lanier. Notice in the before photo how much of the land mass has eroded away and how many trees have fallen into the water.



In this “after” photo, the shore and tree line areas are much more protected from wind and wave patterns. The rip rap installation at this island is expected to protect this area of shoreline for another 75+ years.