

**FWC 17/18-69C
ATTACHMENT-A**

SCOPE OF WORK

Lakebed Gravel Installation in Hurricane Lake (Okaloosa County), Florida

Project Objective

This Invitation to Bid (ITB) covers delivery and installation of sportfish spawning and foraging substrate (gravel beds) on Hurricane Lake near Munson (FL) and will be awarded to the responsive bidder with the lowest bid total price for the project. The Florida Fish and Wildlife Conservation Commission (FWC) has identified the need for gravel beds to provide spawning habitat and foraging areas within this lake. This will improve sportfish recruitment and size structure, ultimately enhancing the overall fishing resource. Evaluation of this process will help guide future management efforts providing the most effective and efficient methods for improving fish spawning/foraging habitat.

Hurricane Lake

Hurricane Lake is a 318-acre impoundment located in the Blackwater River State Forest, Okaloosa County (Geographic Location: N °30.9406226, W °-86.7678405). Directions to Hurricane Lake (Blackwater River State Forest; Figure 1) are as follows. From I-10 take exit 45 North on Log Lake Rd. and turn right onto US-90. In approximately 2.7 mi take a left onto Galiver Cutoff and follow for 4.7mi. Turn left onto FL-4 W and head into Baker (0.9mi). Take a left at the traffic light and stay on FL-4 W for 6.4mi. Turn right onto Beaver Creek Rd. In 3.7 mi. stay right to remain on Beaver Creek Rd., after 2.0 mi turn right onto Kennedy Bridge Rd. Follow this for 2.4 mi then take a left onto Hurricane Lake South entrance Rd.

Scope of Work/Bid Specifications

This project consists of ten (10) work sites in Hurricane Lake. Each work site will consist of a 60'x60' square shaped gravel bed, comprised of 3/8 to 3/4" gravel (largest diameter preferred) poured 4" deep. Total overall coverage of material is approximately 0.82 acres. Work sites will be nearshore or offshore locations. A barge, or similar vessel, will be needed to install gravel beds at all work sites. Land-based machinery is not permitted in the lakebed. Work sites are located too far offshore to be accessed with land-based machinery. Figures 1-2 are for visual reference of site locations. The target work sites will be identified as "1", "2", "3", "4", "5", "6", "7", "8", "9", and "10" (Table 1; Figure 2). Table 1 and figure 2 indicate the approximate center points for each work area. Orange buoys will mark the four (4) corners of each rectangular shaped gravel bed. All gravel must be deposited within the boundaries marked by the buoys. All gravel will be placed at a consistent 4" depth inside of the marked boundaries.

The beginning date of specified work will be upon issuance of the purchase order and shall be completed by December 31, 2017. The selected vendor (Contractor) shall mobilize equipment, install gravel substrate, and clean-up staging/access areas within the specified

time frame. Work shall not begin until the “Notice to Proceed” has been issued. Work may be performed Monday through Friday during daylight hours only (sunrise to sunset).

The Commission reserves the right to do all or part of the work outlined in this document and may terminate the project at any time for any reason. Prior to any vendor selection with this Request for Quotes, the Commission will determine what project sites, or portions thereof, can be completed based upon available funding. If an entire project area cannot be completed due to insufficient funds, the Commission reserves the right to remove areas or reduce acres within an area; however, this will be done in consultation with the Commission Project Manager to ensure that the highest priority areas are treated, as funding allows. If the acres within an area are reduced, the Contractor who is selected for that area based upon their quote will have the opportunity to accept or decline the revised project area, without penalty. Contractors will not be allowed to alter their quotes as a result of a reduction in the acres to be treated.

Mobilization and Deployment of Equipment

The Contractor will provide as many pieces of equipment necessary to complete the project within the specified timeframe. This requirement should be considered by the Contractor when formulating the total bid price.

All equipment proposed to be used on this project must be approved by the Commission Project Manager prior to the Bid Award.

Prior to bid submittal, Bidders shall completely familiarize themselves with all existing site conditions, factors, constraints, and limitations of the work areas that may affect the work and the cost thereof, including use of additional equipment, required to complete the project within the designated timeframe.

Site Descriptions

The 10 work sites are located throughout Hurricane Lake. The Contractor shall be required to create gravel piles in the specified dimensions (60' x 60') at a 4" depth within the buoys that mark each corner of the work site at the specified locations (Table 1). The Commission Project Manager reserves the right to determine the order in which sites will be constructed.

Payment Criteria

Bids should be structured to indicate the total price to complete construction of an individual gravel bed. The final payment will not be approved until all equipment has been demobilized and any repair of damaged property has been completed and approved by the Commission Project Manager.

Bid Requirements

The Contractor shall provide experienced equipment operators. The Commission reserves the right to require the Contractor to replace any equipment or personnel used in the performance of the purchase order contract if, in the opinion of the Commission Project Manager, said equipment and personnel are operating in an unsafe or unsatisfactory manner. The Commission reserves the right to shut down any equipment that the Commission Project Manager determines is not one-hundred percent (100%) operational. It shall be the responsibility of the Contractor to keep all work areas and equipment in a clean and neat manner.

Multiple Purchase Order Contracts:

The Contractor shall not enter into more than one (1) Purchase Order Contract with the Commission whose operational time frame runs concurrently with another Purchase Order Contract with the Commission unless the Contractor and the Commission Project Manager of the current projects agree that the Contractor can complete all projects on time as described in each Purchase Order Contract. Any deviation in a project's operational time frame shall be approved in advance by the Commission Project Manager. The Commission Project Manager shall provide the Contractor at least a ten (10) day advance notice of the proposed project start date and a written Notice to Proceed. The Contractor must be mobilized and operating at the work site by the project start date identified in the Notice to Proceed.

Work Specifications

Permits:

Commission staff will obtain all environmental permits required to complete the work describe herein.

Documentation:

Following the completion of each work area, the Contractor shall schedule an inspection with the Commission Project Manager to determine if the requirements for the work area have been satisfied. Work area inspection shall take place no sooner than forty-eight (48) hours following the Contractor's determination of work area completion. The Commission Project Manager will inspect the work area on the first business day after the 48-hour waiting period to determine work area completion.

Demobilization:

Upon completion of gravel bed installation, the Contractor shall remove all equipment, vehicles, vessels, and other items associated with implementation of the project from the work sites and launch site(s). Any damage to Florida Forest Service property or lakebed (includes but is not limited to: boat ramps, parking lots, and staging areas where gravel is unloaded) as a result of specified work shall be repaired prior to completion of the project.

Miscellaneous:

The Contractor must remain on the job with all designated equipment until the completion date or the Commission Project Manager agrees to project completeness. Security of the Contractor's equipment is the responsibility of the Contractor.

Maintenance of all equipment is the Contractor's responsibility. If a piece of equipment is inoperable for forty-eight (48) hours or more on three (3) different occasions, the Contractor shall be required to mobilize and operate an equivalent operational piece of equipment to the project site within forty-eight (48) hours of the Commission Project Manager's request. The Contractor shall provide vessels to transport their employees, fuel and other equipment necessary for project operations to the aquatic plant removal locations.

The Contractor shall provide any and all safety equipment required by law to conduct his/her operations. The Contractor shall develop and implement a safety plan outlining the procedures his/her employees must follow in case of a hydraulic or diesel fluid spill occurs as the result of the Contractor's operations. All appropriate regulatory agencies and the Commission Project Manager shall be notified in a timely manner of any hazardous waste spill and the Contractor's employees must begin immediate efforts to clean-up the spill.

All activities conducted during this project are subject to photographic and video documentation, as long as no direct interference with equipment operation occurs. Failure by the Contractor to allow documentation of any work activities may result in termination.

Failure to comply with any or all of these contract specifications could result in the Contractor's immediate termination and final payment shall be for only work completed and approved by the Commission Project Manager.

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Table 1. – Locations of work sites where gravel beds will be installed in Hurricane Lake.

Name	Latitude	Longitude
Hurricane_1	30.942929°	-86.755947°
Hurricane_2	30.938899°	-86.752104°
Hurricane_3	30.943428°	-86.753784°
Hurricane_4	30.942669°	-86.755492°
Hurricane_5	30.938469°	-86.760486°
Hurricane_6	30.935508°	-86.752886°
Hurricane_7	30.942238°	-86.760268°
Hurricane_8	30.944846°	-86.758296°
Hurricane_9	30.940539°	-86.761789°
Hurricane_10	30.939228°	-86.757381°

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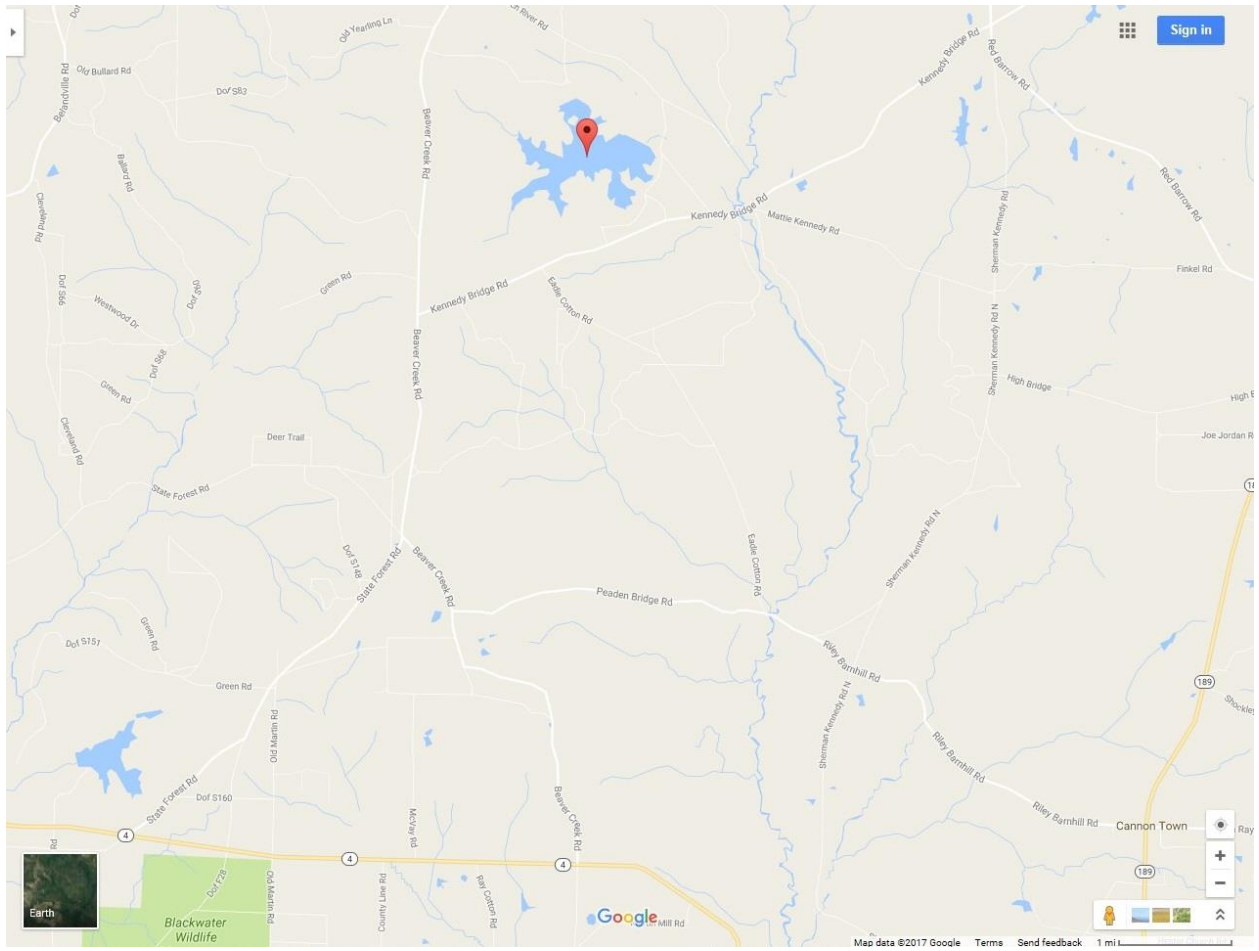


Figure 1. – Map to Hurricane Lake (Okaloosa County, Florida).

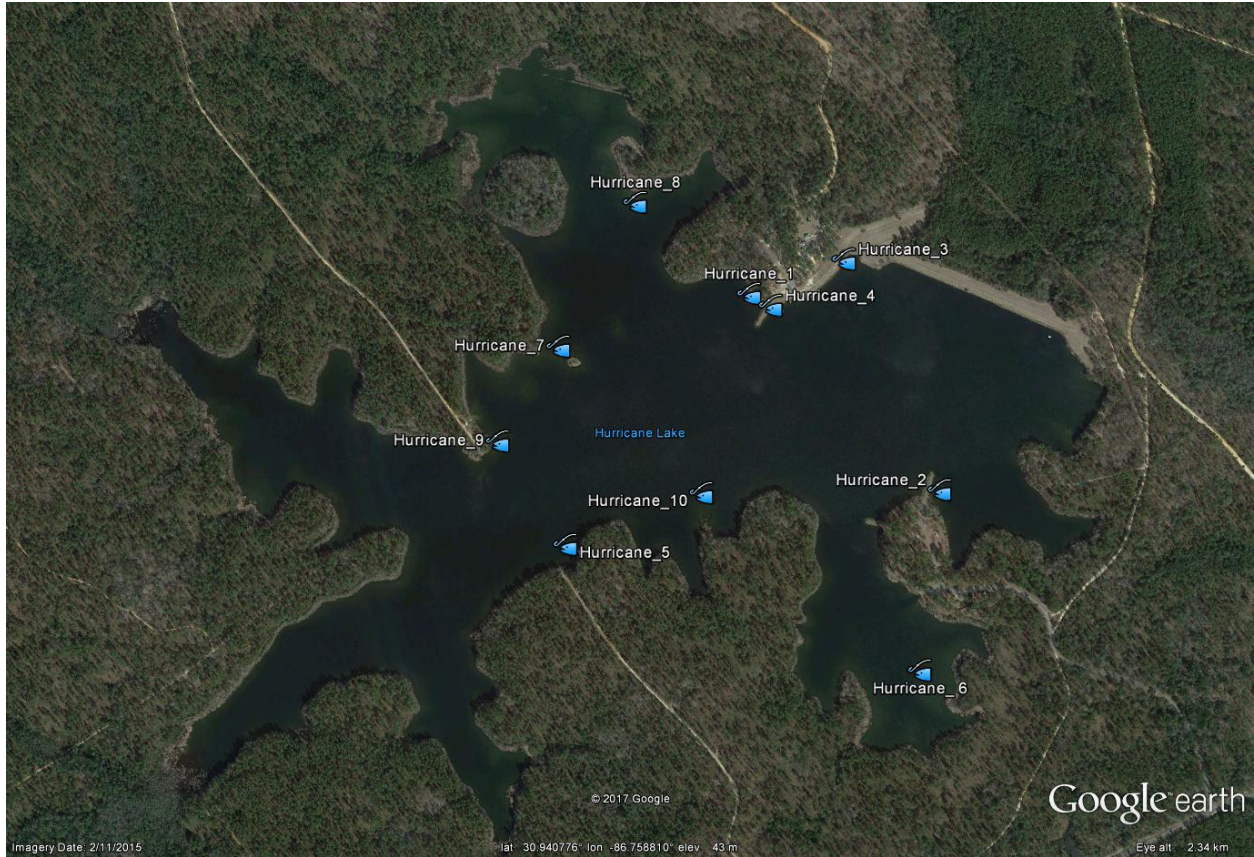


Figure 2. – Map of the ten (10) spawning/foraging habitat installation sites within Hurricane Lake (Okaloosa County).