

**COLORADO RIVER RECOVERY PROGRAM
FY-2010-2011 PROPOSED SCOPE OF WORK for:**

Project No.: 19 Pit Tag GIS

Lead Agency: FWS, Region Six, Water Resources Division

Principal Investigators: Karen Holt
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Category:

- Ongoing Project
 Ongoing-revised project
 Requested new project
 Unsolicited proposal

Expected Funding Source:

- Annual funds
 Capital funds
 Other (explain)

I. Title of Proposal: PIT Tag GIS database converted to a FWS server and ARCGIS

II. Relationship to RIPRAP: General Recovery Action Plan, V.A.1., Conduct interagency data management program to compile, manage, and maintain all research and monitoring data collected by the Recovery Program.

III. Study Background/Rationale and Hypotheses:

This proposal represents continued support in data management activities.

IV. Study Goals, Objectives, End Product:

Study Goal: To maintain and track Colorado River endangered fish distribution and movement.

Study Objectives:

1. To provide one updated, user friendly GIS database for the endangered fish of the upper Colorado basin.
2. To compile age, location of captures, size data, etc. for the endangered fish for Upper Colorado Recovery program.

V. Study Area:

The Colorado and Green River Basin above Lake Powell.

VI. Study Methods/Approach: Continue to update and promote the PIT tag/GIS database.

VII. Schedule: Tasks will be completed between October 1, 2010 and September 30 2011

VIII. FY 2010 and 2011 Tasks:

Improve Colorado River Endangered Fish Recovery Program Web Viewer

In this phase of the project we will port the system to ArcGIS Server using the Flex API viewer. We will create widgets to search the fishdata database and create reports similar to the ArcIMS version. We will use the same geodatabase and MXD files that were created for the AcrIMS project.

Because the Flex API Viewer runs in a Flash environment, all flash enabled browsers will display the same view. There will be no difference in the product whether it is displayed on an IE, Firefox, Safari, or Chrome browser. According to Adobe, 99% of internet-enabled browsers support Flash. The FWS Data and System Services branch also uses Flex and can host this system.

Please view http://asademo.esri.com/flexviewer1_3/ to see a sample ESRI Flex API viewer.

We will Port the system to the Flex API Viewer providing similar functionality to the ArcIMS Viewer. Load the system onto the FWS Data and System Services hosting site; this includes the database, map layers and code.

Cost:

\$2,250 - software development

\$1,050 - testing and documentation

\$ 600 - migration to USFWS servers

\$ 600 - migration of 2009 data

\$4,500- Total

Signed: Karen Holt
Principle Investigator

August 2, 2010