# NPS

**PROJECT SUMMARY**

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| **Cooperative Ecosystem Studies Unit****Cooperative Agreement Modification** |
| FUNDING AGENCY: **National Park Service** |
| MODIFICATION NO.: **[CESU info only]** | COOPERATIVE AGREEMENT NO.: **H1200040002** | FUNDING AMOUNT: $ **13,440** |
| INVESTIGATORS’ Contact Information: Primary PI Mike Kearsley, Department of Biological Sciences, NAU (928)523-5005 / Lori Makarick, Backcountry Vegetation Program Manager, GRCA (928)226-0165 |
| PROJECT TITLE: **Design Vegetation, Soil and Avifauna Inventory and Monitoring Components for Colorado River Management Plan’s Implementation Plan, Grand Canyon National Park** |
| EFFECTIVE DATES**: Start Date: July 3, 2006 End Date: December 31, 2007** |
| PROJECT ABSTRACT: This project will support the design of the vegetation, soils and avifauna components of the Inventory and Monitoring (I&M) Plan for the Colorado River, Grand Canyon National Park. GRCA natural resources staff will provide the Principal Investigator (PI) with the overall management questions for vegetation, soils and avifauna, along with the general background on the planning effort. The PI will provide a synopsis of the various vegetation / avifauna monitoring designs currently being used by Grand Canyon Monitoring and Research Center (GCMRC). The PI will also provide a summary of the Old High Water Zone (OHWZ) and New High Water Zone (NHWZ) vegetation based on GCMRC plot data, describing the OHWZ and NHWZ vegetation in the various geomorphic reaches. The PI will overlay the locations of the 49 GRCA indicator sites with the GCMRC plot data, and assist with the determination of sampling locations and overall sample size requirements for the plan. The PI will then design an integrated monitoring scheme that would combine currently used, peer-reviewed, and scientifically accepted methodology to address the management concerns related to recreational impacts. |
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| ***List of Key Words: Protocols / Reference Materials, Surveys / Inventory and Monitoring, Exotic Vegetation, Riparian Habitats*** |
| ***Key Official from National Park - Include contact information @ Specific Park or NPS Office****:**Lori J. Makarick**Backcountry Vegetation Program Manager**Grand Canyon National Park**823 N. San Francisco Street, Suite B**Flagstaff, AZ 86001**(928)226-0165* |
| *Annual Report Received:**Final Report Received:**Publications on File:* |
| *This Modification is subject to all the provisions included in the Cooperative Agreement,* ***dated 6/18/04.*** |

*Attach any supporting material as necessary.*