**NPS**

**PROJECT SUMMARY**

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| **Cooperative Ecosystem Studies Unit****Cooperative Agreement Modification**  |
| FUNDING AGENCY:**National Park Service**  |
|  MODIFICATION NO.: **[ insert # ]**  | COOPERATIVE AGREEMENT NO.:**1200-99-009** |  FUNDING AMOUNT: $ **9,890** |
| INVESTIGATORS Contact Information: **[please list all CO-Pis contact information]****Lee MacDonald� (970) 491-6109****Scott Woods** |
| PROJECT TITLE:**[ insert title ]****Hydrology Survey at Bent�s Old Fort, Colorado**  |
| EFFECTIVE DATES**:[start/end date]**3/01/01 through 3/01/02 |
| PROJECT ABSTRACT:**[� insert short description of project ]****The purpose of the proposed project is to investigate the hydrologic issues related to the preservation and conservation of the historic and natural features of Bent�s Old Fort National Historic Site.� The first task will be to make a site visit and work with the local NPS staff to: 1) identify the issues of concern; and 2) determine the priorities for investigation. �This site visit will be made in late March or April prior to peak flows on the Arkansas River.� During or immediately after this site visit we will use a hand auger to install the wells and piezometers needed to characterize the shallow groundwater that may be threatening the integrity of historic structures.� Depending on the other resource management issues, the monitoring network could also include the nearby ponds and extend to the edge of the Arkansas River.� To the extent that data loggers and pressure transducers are available from the Water Resources Division of the National Park Service, water levels at key sites will be recorded automatically.� At other sites we will install staff gages and train the local NPS staff to monitor water levels on approximately a weekly basis.� By monitoring from April to mid-summer 2001, we hope to capture most of the annual range of water levels and groundwater gradients.**  |
| **Agency Representative:**Ron Hiebert, NPSResearch CoordinatorCPCESUNorthern Arizona UniversityP.O. Box 5765Flagstaff, AZ� 86011-5765Tel: (928) 523-0877Fax: (928) 520-8223Ron.Hiebert@nau.edu  | **Agency Administration Representative**Lynell WrightBudget AssistantIntermountain Support OfficeDenver, CO� 80225-0287Tel: (303) 969-2654Lynell\_Wright@nps.gov | **Investigator:**Lee MacDonaldDept. of Earth ResourcesColorado State UniversityFort Collins, CO 80523(970) 491-6109leemac@cnr.colostate.edu | **Partner Admin. Contact:**Carmen MoralesSr. Research Admin.Sponsored ProgramsCSUFort Collins, CO 80523(970) 491-6684cmorales@research.colostate.edu |
| ***List of Key Words: [Insert key words]***  |
| ***Agency Manager contact information @ Specific Park****:**Bent�s Old Fort National Historic Site*  |
| *Annual Report Received:**Final Report Received:**Publications on File:*  |
| *This Modification is subject to all the provisions included in the Cooperative Agreement,****dated 6/22/99.***  |
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*Attach any supporting material as necessary.*