

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM

9

DECISION

**TOPIC Contract Amendment - Update of the National Wetlands Inventory for
Iowa - Saint Mary's University of Minnesota**

The Department requests Commission approval to amend Contract Number 04-04HA-03 (Update of the National Wetlands Inventory for Iowa) for time of performance and contract amount only.

Time of Performance: From May 1, 2006 to April 30, 2008

Contract Amount: \$200,000 minimum up to \$500,000 maximum

The NWI for Iowa was based on 1:58,000 color infra-red (CIR) photography acquired circa 1985. The Iowa Color Infra-red Digital Orthophotography Project is near completion and will provide statewide color infra-red photography at 1:40,000 acquired in Spring 2002. The 2002 CIR photography is available in a digital, ortho-rectified format so that NWI updates can be performed using on-screen computerized mapping techniques. The NWI update will allow us to quantify wetland change over a 17 year period. We will also be able to assess changes to river courses and map all new impoundments constructed over that same time period.

The majority of wetland restoration and construction work in Iowa did not begin until the early 1990s. Wetland restoration projects have been conducted through a variety of private lands programs, water quality improvement projects (EPA 319 funding), conservation easements (most notably WRP), mitigation projects, and via land acquisition programs targeted at purchasing lands for wetland restoration. This project represents the first opportunity to map and synthesize all of these activities into a comprehensive data layer (i.e., inventory of surface waters).

The cumulative impact of all of these programs is difficult to entirely understand without mapping them explicitly. Updated photography combined with past inventory allows us to assess wetland loss as well. The impacts will vary based on the spatial scale of analysis. IDNR has recently completed a watershed map for the state of Iowa delineating 12-digit hydrologic units, which divide Iowa into 1,600 watersheds. These watershed boundaries provide us a new, and likely more meaningful, set of geographic units for analysis of impacts of wetland change on sediment reaching Iowa's lakes and streams, on lessening the duration and extent of flooding, and on regional wildlife populations. As we continue to define new boundaries and spatial scales for analysis, whether they are based on political or ecological criteria, we realize the need for explicit maps of wetlands and all surface waters to allow scientists and land managers to make the best use of the information.

At this time, the Department requests Commission approval to modify the existing contract with St. Mary's University GeoSpatial Services to complete phase II of the project to update the NWI for the state of Iowa.

Chris Ensminger, Environmental Program Supervisor
Geographic Information Section, IGSLQ Bureau
Environmental Services Division

April 24, 2006

CONTRACT AMENDMENT

This amendment covers changes in the Special Conditions of contract number 04-04HA-03 (Update of the National Wetlands Inventory for Iowa) between the Iowa Department of Natural Resources (Department) and Geospatial Services, Saint Mary's University of Minnesota (Contractor). All parts of the Special Conditions that are not amended below and all parts of the General Conditions in this contract shall continue to be in force throughout the time of performance.

I. CHANGES: To change the following portions of the contract to read:

Time of Performance: From May 1, 2006 to April 30, 2008

Contract Amount: \$200,000 minimum up to \$500,000 maximum

ARTICLE V. SCOPE OF WORK

5.1 The contractor will conduct the work necessary to update the National Wetlands Inventory for a geographic area defined by 69 up to 138 U.S. Geological Survey 7.5' Quadrangles (approximately 3,243 up to 6,486 square miles) as described in the Revised Workplan. The Revised Workplan is incorporated as a part of this Contract Amendment.

ARTICLE IX. FUNDING

9.1 The Department shall pay the Contractor for NWI Updates using the USGS 7.5' Quadrangle as the spatial unit of delivery. The Department shall pay the Contractor \$1,450 per USGS 7.5' Quadrangle for NWI Updates. The total amount is not to exceed the Contract Amount as set forth on the title page of this Contract for the completion of the Project. Funding for this Project is available through the Iowa Water Monitoring Program, Water Initiative - Data for Local Watershed Groups, and potentially through a US Fish and Wildlife Service grant. Funds are received and administered under cost code 543-0295-04HA and 543-0295-03HA.

Therefore, by mutual consent of the parties as witnessed by the signatures below, the contract is amended as shown above. All conditions of the original contract, not affected by the above changes, shall remain the same.

IOWA DEPARTMENT OF NATURAL RESOURCES SAINT MARY'S UNIVERSITY OF MINNESOTA

By: _____ By: _____

Typed Name: Liz Christiansen Typed Name: Brother Craig Franz

Title: Deputy Director Title: President

Date: _____ Date: _____

Federal ID No.: 41-0695527

By: _____ By: _____

Typed Name: Chris Ensminger Typed Name: Barry Drazkowski

Title: GIS Section Supervisor Title: Director, GeoSpatial Services

Date: _____ Date: _____