

**CHESAPEAKE WATERSHED
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT TWO TO
COOPERATIVE and JOINT VENTURE AGREEMENT**

between

**U.S. DEPARTMENT OF THE INTERIOR
Bureau of Land Management
U.S. Fish and Wildlife Service
U.S. Geological Survey
National Park Service**

**U.S. DEPARTMENT OF DEFENSE
Office of the Deputy Under Secretary of Defense
(Installations and Environment)
U.S. Army Corps of Engineers – Civil Works**

**U.S. DEPARTMENT OF AGRICULTURE
U.S. Forest Service, Northern Research Station
Natural Resources Conservation Service**

**U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration**

and

**THE UNIVERSITY SYSTEM OF MARYLAND (HOST)
University of Maryland Center for Environmental Science
University of Maryland, College Park
University of Maryland, Baltimore County
Frostburg State University**

**College of William and Mary
George Mason University
Pennsylvania State University
University of the District of Columbia
National Aquarium
American Bird Conservancy
James Madison University
Delaware State University**

**University of Delaware
The Academy of Natural Sciences
Western Pennsylvania Conservancy
American University
Christopher Newport University
Howard University
Indiana University of Pennsylvania
University of Mary Washington
University of Virginia
Anne Arundel Community College
George Washington University
Shippensburg University**

**Adding:
University of Richmond
Virginia Institute of Marine Science**

With the exception of the changes below, all terms and conditions of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement apply to this Amendment, and this Amendment is hereby made part of the Agreement.

ARTICLE I. BACKGROUND AND OBJECTIVES

M.2. The University of Richmond and Virginia Institute of Marine Science are hereby included in the Chesapeake Watershed CESU as a Partner Institutions.

ARTICLE III. TERM OF AGREEMENT

A.1. The effective date of the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement is 5 August 2011.

A.2. The effective date of this amendment to the Chesapeake Watershed CESU Cooperative and Joint Venture Agreement shall be determined from the date of the last signature.

ARTICLE IV. KEY OFFICIALS

C.24. The technical representative for the University of Richmond is:

Dr. Todd Lookingbill
Asst. Prof. of Geography & the Environment, Asst. Prof. of Biology

28 Westhampton Way
University of Richmond, Virginia 23173
Phone: (804) 289-8265
tlooking@richmond.edu

The administrative contact for the University of Richmond is:

Diana Thompson Vincelli
Director of Grant Support
28 Westhampton Way
University of Richmond, Virginia 23173
Phone: (804) 289-8005
Fax: (804) 287-1433
dvincell@richmond.edu

C.25. The technical representative for Virginia Institute of Marine Science is:

Dr. Mark Luckenbach
Associate Dean for Research and Advisory Services
Virginia Institute of Marine Science
1375 Greate Road
Gloucester Point, VA 23062-2026
Phone: (804) 684-7029
Fax: (804) 684-7614
luck@vims.edu

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES

The following authorizing signatures are attached:

U.S. DEPARTMENT OF THE INTERIOR

- A. Bureau of Land Management
- B. U.S. Fish and Wildlife Service
- C. U.S. Geological Survey
- D. National Park Service

U.S. DEPARTMENT OF DEFENSE

- E. Office of the Deputy Under Secretary of Defense (Installations and Environment)
- F. U.S. Army Corps of Engineers – Civil Works

U.S. DEPARTMENT OF AGRICULTURE

- G. U.S. Forest Service
- H. Natural Resources Conservation Service

U.S. DEPARTMENT OF COMMERCE

I. National Oceanic and Atmospheric Administration

J. THE UNIVERSITY SYSTEM OF MARYLAND (HOST)

K. University of Maryland, College Park

L. University of Maryland, Baltimore County

M. Frostburg State University

N. College of William and Mary

O. George Mason University

P. Pennsylvania State University

Q. University of the District of Columbia

R. National Aquarium

S. American Bird Conservancy

T. James Madison University

U. Delaware State University

V. University of Delaware

W. The Academy of Natural Sciences

X. Western Pennsylvania Conservancy

Y. American University

Z. Christopher Newport University

AA. Howard University

BB. Indiana University of Pennsylvania

CC. University of Mary Washington

DD. University of Virginia

EE. Anne Arundel Community College

FF. George Washington University

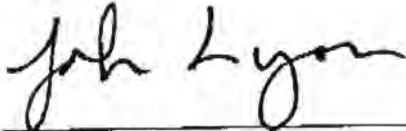
GG. Shippensburg University

HH. University of Richmond

II. Virginia Institute of Marine Science

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

A. Bureau of Land Management



Dr. John G. Lyon
State Director, Eastern States

05 03 2013

Date

Lisa T. Clayton
Grants Management Officer

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

B. U.S. Fish and Wildlife Service

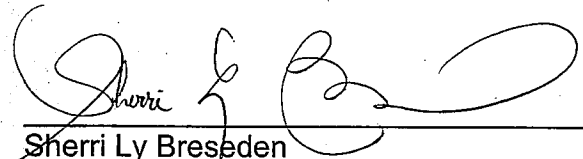
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Paul Phifer
Assistant Regional Director
Ecological Services, Region 5

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

C. U.S. Geological Survey

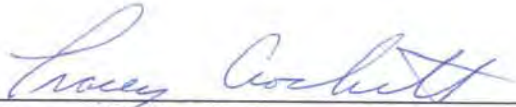


Sherri Ly Breseden
Contracting Officer

05/06/13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

D. National Park Service




Tracey Y.M. Crockett
Chief, Acquisition Management
National Park Service
National Capital Region

29 MAY 13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

E. Office of the Deputy Under Secretary of Defense (Installations and Environment)



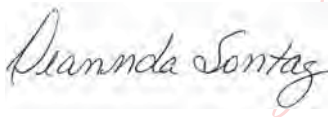
Derek Gadbury
Grants Officer Representing ODUSD (I&E)

9 May 13

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

F. U.S. Army Corps of Engineers – Civil Works



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DN: c=US, o=U.S. Government, ou=DoD,
ou=PKI, ou=USA,
cn=SONTAG.DEANNDA.S.1230791909
Date: 2013.05.10 09:17:10 -05'00'

Deanna Sontag
Grants Officer

10 May 2013

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

G. U.S. Forest Service

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

David Garrison
Grants Management Specialist
USDA Forest Service
Northern Research Station

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

H. Natural Resources Conservation Service

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Jane Hardisty
Acting Deputy Chief for Management

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

I. National Oceanic and Atmospheric Administration

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Frank Almeida
Acting NEPSC Director

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

J. The University System of Maryland

WE Kirwan
William E. Kirwan
Chancellor

6/10/13
Date

J.1 University of Maryland Center for Environmental Sciences

Ruth Tallman
Ruth Tallman
Director, Office of Research Administration & Advancement

6/10/13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

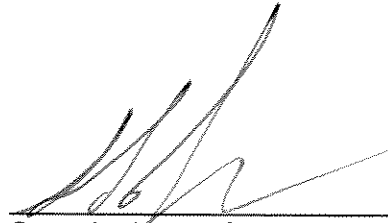
K. University of Maryland, College Park

Monique Anderson
Monique Anderson
Assistant Director, Research Administration

5/3/13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

L. University of Maryland, Baltimore County



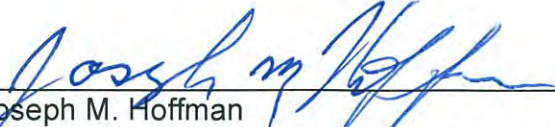
Stan Jackson, CRA
Grants and Contracts Manager



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

M. Frostburg State University



Joseph M. Hoffman
Dean, College of Liberal Arts and Sciences

5/6/17
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

N. College of William and Mary

Randolph M. Chambers

Randolf M. Chambers
Director, Keck Environmental Lab

3 May 2013

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

O. George Mason University



Michael Laskofski
Associate Vice President of Research Operations

5/3/13

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

P. Pennsylvania State University



Lisa A. Hipple, CRA
Associate Director of Sponsored Programs

May 10, 2013
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Q. University of the District of Columbia


Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Graeme Baxter
Provost and Vice President for Academic Affairs (Interim)

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

R. National Aquarium



John D. Goodenow
Senior Director of Development

5/20/13
Date

~~John Racanelli
CEO~~

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

S. American Bird Conservancy

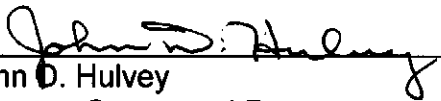
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

David Pashley
Vice President

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

T. James Madison University



John D. Hulvey
Director, Sponsored Programs
Administration and Accounting

5/3/2013
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

U. Delaware State University



Harry Lee Williams
President

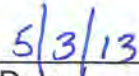
4/5/13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

V. University of Delaware



Katherine M. Lyons
Contract and Grant Specialist




Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

W. The Academy of Natural Sciences

David Velinsky
Vice President for Environmental Science

Date



Digitally signed by David
Velinsky
DN: cn=David Velinsky, o=ANS
DU, ou=BEEES,
email=djv23@drexel.edu, c=US
Date: 2013.06.03 14:58:52 -04'00'

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

X. Western Pennsylvania Conservancy

Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

Shaeen Fenlon
Vice President

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Y. American University




Scott A. Bass
Provost



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

Z. Christopher Newport University

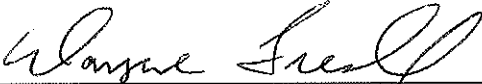


Mark Padilla
Provost

5/3/2013
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

AA. Howard University



Wayne A. I. Frederick, M.D., MBA, F.A.C.S.
Provost and Chief Academic Officer

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

BB. Indiana University of Pennsylvania



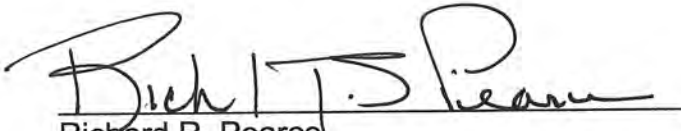
Timothy P. Mack
Dean of the School of Graduate Studies and Research



Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

CC. University of Mary Washington

A handwritten signature in black ink that reads "Rich R. Pearce". The signature is written in a cursive style with a large initial "R" and "P".

Richard R. Pearce
Vice President for Administration and Finance

5/20/13
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

DD. University of Virginia



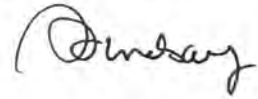
for Robert Merhige
Director of Grants and Contracts, Office of Sponsored Programs

5/3/13

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

EE. Anne Arundel Community College

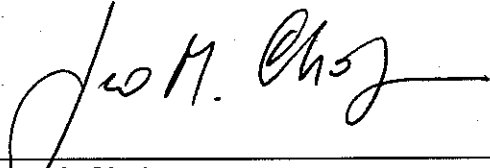


Dr. Dawn Lindsay
President

May 15, 2013
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

FF. George Washington University



Leo M. Chalupa
Vice President for Research

30 May 2013

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

GG. Shippensburg University

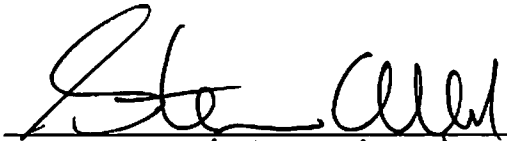
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Barbara G. Lyman, PhD
Provost and Senior Vice President for Academic Affairs

Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

HH. University of Richmond


Print Name: Stephen Allred
Print Title: Provost and Vice President for
Academic Affairs

April 29, 2013
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

II. Virginia Institute of Marine Science



Margaret J. Fonner
Director of Sponsored Programs

4/25/2013
Date