

**CHESAPEAKE WATERSHED  
COOPERATIVE ECOSYSTEM STUDIES UNIT**

**AMENDMENT THREE 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  
University of Richmond  
Virginia Institute of Marine Science**

**Adding:  
Garrett College  
Virginia Commonwealth University**

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.3. Garrett College and Virginia Commonwealth University 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.26. The technical representative for Garrett College is:

Michael White  
Center for Adventure & Experiential Learning  
Garrett College  
685 Mosser Drive  
McHenry, MD 21541  
Phone: (301) 387-3723  
[michael.white@garrettcollege.edu](mailto:michael.white@garrettcollege.edu)

C.27. The technical representative for Virginia Commonwealth University is:

Dr. Gregory Garman  
Director, Center for Environmental Studies  
Research Director, VCU Rice Rivers Center  
Associate Professor, Department of Biology  
1000 West Cary Street  
P.O. Box 843050  
Richmond, Virginia 23284-3050  
Phone: (804) 828-1574  
[ggarman@vcu.edu](mailto:ggarman@vcu.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
- JJ. Garrett College**
- KK. Virginia Commonwealth University**

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

A. Bureau of Land Management

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.

\_\_\_\_\_  
Elana Fink  
Deputy State Director, Eastern States

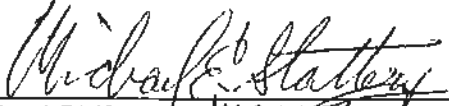
\_\_\_\_\_  
Date

\_\_\_\_\_  
Lisa Clayton  
Grants Management Officer

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

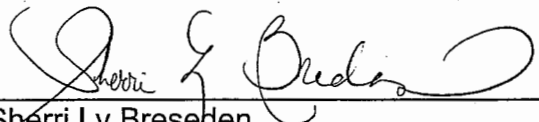
B. U.S. Fish and Wildlife Service

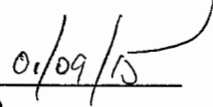
  
~~Paul Phifer~~ MICHAEL SLATTERY  
Assistant Regional Director CHESAPEAKE COORDINATOR  
Ecological Services, Region 5  
SCIENCE APPLICATIONS

2/18/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

C. U.S. Geological Survey

  
\_\_\_\_\_  
Sherri Ly Breseden  
Contracting Officer

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

D. National Park 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.

\_\_\_\_\_  
Tracey YM Crockett  
Chief, Acquisition Management  
National Park Service  
National Capital Region

\_\_\_\_\_  
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

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

**ROBICHEAUX.TRACI.D.1  
260353990**

Digitally signed by ROBICHEAUX.TRACI.D.1260353990  
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,  
ou=USA, cn=ROBICHEAUX.TRACI.D.1260353990  
Date: 2015.02.03 12:39:49 -06'00'

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Traci Robicheaux  
Grants Officer (Representing ODUSD (I&E))

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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: 2015.01.22 14:25:21 -06'00'

22 Jan 2015

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Deanna Sontag  
Grants Officer

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Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

G. U.S. Forest Service



David Garrison  
Grants Management Specialist  
USDA Forest Service  
Northern Research Station

1/12/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

H. Natural Resources Conservation Service

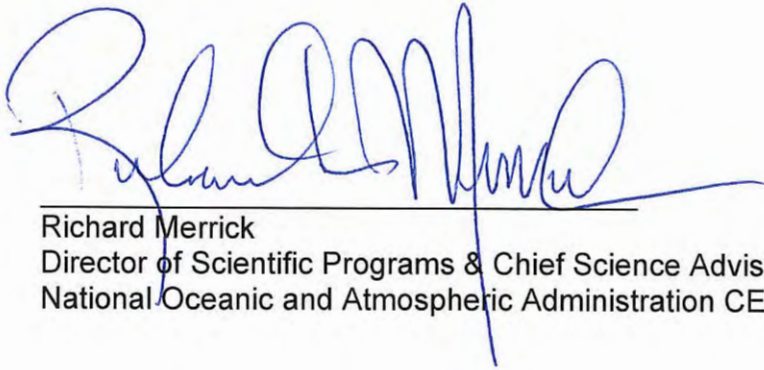
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

\_\_\_\_\_  
Gayle N. Barry  
Deputy Chief for Management

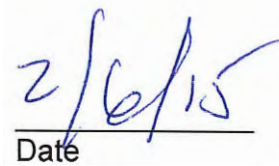
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Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

I. National Oceanic and Atmospheric Administration



Richard Merrick  
Director of Scientific Programs & Chief Science Advisor  
National Oceanic and Atmospheric Administration CESU Lead



2/6/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

J. The University System of Maryland

WE Kirwan  
William E. Kirwan  
Chancellor

2/13/15  
Date


J.1 University of Maryland Center for Environmental Sciences

Angela B. Richmond  
Angela B. Richmond  
Director, Office of Research Administration & Advancement

2/12/2015  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

**K. University of Maryland, College Park**

  
\_\_\_\_\_  
Monique Anderson  
Assistant Director, Research Administration

1/22/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

L. University of Maryland, Baltimore County

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.


\_\_\_\_\_  
Stan Jackson, CRA  
Grants and Contracts Manager

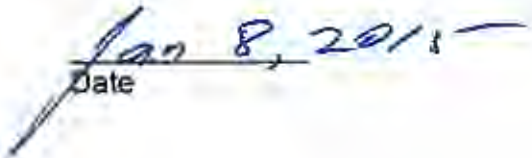
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Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

M. Frostburg State University

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

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

N. College of William and Mary

Randolph Chambers

Digitally signed by Randolph Chambers  
DN: cn=Randolph Chambers, o=College of  
William and Mary, ou=Keck Environmental Lab,  
email=rmcham@wm.edu, c=US  
Date: 2015.01.09 12:28:37 -05'00'


Randolf M. Chambers  
Director, Keck Environmental Lab

1 - 9 - 2015

Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

O. George Mason University

  
\_\_\_\_\_  
Michael Laskofski  
Associate Vice President of Research Operations

1/8/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

P. Pennsylvania State University

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.

\_\_\_\_\_  
Lisa A. Hipple  
Associate Director of Sponsored Programs

\_\_\_\_\_  
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 Racanelli  
Chief Executive Officer

2/20/15

\_\_\_\_\_  
Date

**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

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.

\_\_\_\_\_  
John D. Hulvey  
Director, Sponsored Programs  
Administration and Accounting

\_\_\_\_\_  
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

U. Delaware State University

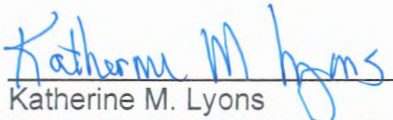


Harry Lee Williams  
President

1/12/15  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

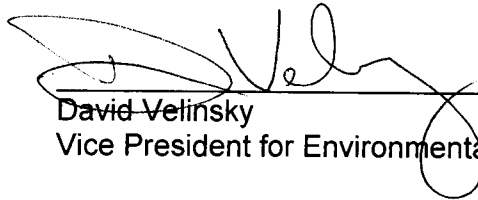
V. University of Delaware

  
Katherine M. Lyons  
Contract and Grant Specialist

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

W. The Academy of Natural Sciences



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David Velinsky  
Vice President for Environmental Science

2/5/15  
Date



2/5/15

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

X. Western Pennsylvania Conservancy

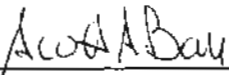
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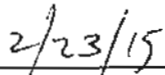
\_\_\_\_\_  
Shaeen Fenlon  
Vice President

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

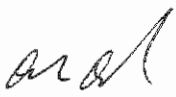
Y. American University

  
\_\_\_\_\_  
Scott A. Bass  
Provost

  
\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**


Z. Christopher Newport University

  
~~Mark Padilla~~ David C. Doughty, Jr.  
Provost

1/2/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

AA. Howard University

  
\_\_\_\_\_  
Michael R. Winston, Ph.D.  
Provost and Chief Academic Officer

1/15/15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

BB. Indiana University of Pennsylvania



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

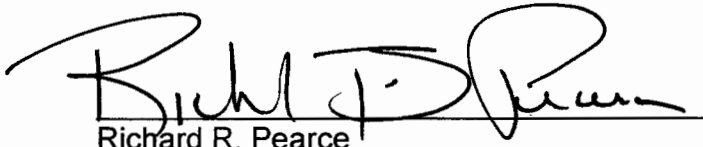
3-12-15

\_\_\_\_\_  
Date



**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

CC. University of Mary Washington

A handwritten signature in black ink, appearing to read "Richard R. Pearce", written over a horizontal line.

Richard R. Pearce  
Vice President for Administration and Finance

1 - 14 - 15  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

DD. University of Virginia



2/5/15

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

Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

EE. Anne Arundel Community College

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.

\_\_\_\_\_  
Dr. Dawn Lindsay  
President

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

FF. George Washington University

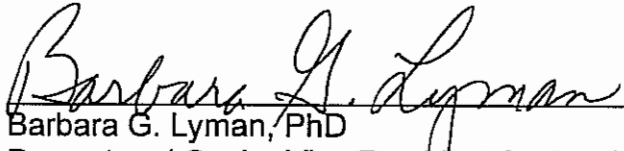
Per Article III, C: If a Partner Institution or Federal Agency has not responded after forty-five (45) days from receipt of the amendment, its signature will not be required to make the amendment effective.

\_\_\_\_\_  
Leo M. Chalupa  
Vice President for Research

\_\_\_\_\_  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

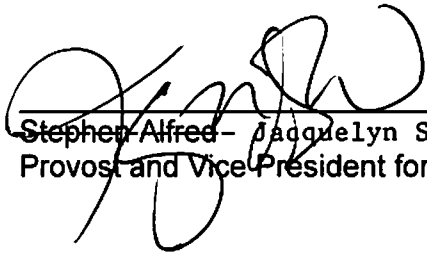
GG. Shippensburg University

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

2-10-15  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

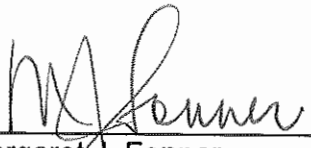
HH. University of Richmond

  
\_\_\_\_\_  
~~Stephen Alfred~~ Jacquelyn S. Fetrow, Ph.D.  
Provost and Vice President for Academic Affairs

02/06/2015  
Date

**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**


II. Virginia Institute of Marine Science

  
\_\_\_\_\_  
Margaret J. Fonner  
Director of Sponsored Programs

1/12/2015  
\_\_\_\_\_  
Date

ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)

JJ. Garrett College

  
\_\_\_\_\_  
[print name] Richard L. MacLennan  
[print title] President

11/11/14  
\_\_\_\_\_  
Date

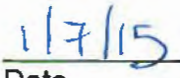


**ARTICLE XIV. AMENDMENT AUTHORIZING SIGNATURES (cont.)**

**KK. Virginia Commonwealth University**



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Date

Andrea J. Publow, MFA, CRA  
VCU Director of Sponsored Programs-  
Government/NonProfit Support