DRAGON RUN WATERSHED MANAGEMENT PLAN

NOVEMBER 2003



Photo credit: Teta Kain

This project was funded by the Virginia Coastal Program of the Department of Environmental Quality through Grants #NA17OZ1142-01 and #NA17OZ2355 of the National Oceanic and Atmospheric Administration, Office of Ocean and Coastal Resource Management, under the Coastal Zone Management Act of 1972, as amended. The views expressed herein are those of the authors and do not necessarily reflect the views of NOAA or any of its subagencies.

This report was printed with funds generated from the sale of Chesapeake Bay license plates through a grant from the Chesapeake Bay Restoration Fund Advisory Committee.







DRAGON RUN WATERSHED MANAGEMENT PLAN

NOVEMBER 2003

DRAGON RUN STEERING COMMITTEE, MIDDLE PENINSULA PLANNING DISTRICT COMMISSION

MARGARET DAVIS, CHAIR WILLIAM F. HERRIN, VICE-CHAIR

DAVID FUSS DIRECTOR, DRAGON RUN SPECIAL AREA MANAGEMENT PLAN MIDDLE PENINSULA PLANNING DISTRICT COMMISSION

This project was funded by the Virginia Coastal Program of the Department of Environmental Quality through Grants #NA17OZ1142-01 and #NA17OZ2355 of the National Oceanic and Atmospheric Administration, Office of Ocean and Coastal Resource Management, under the Coastal Zone Management Act of 1972, as amended. The views expressed herein are those of the authors and do not necessarily reflect the views of NOAA or any of its subagencies.

This report was printed with funds generated from the sale of Chesapeake Bay license plates through a grant from the Chesapeake Bay Restoration Fund Advisory Committee.







TABLE OF CONTENTS

Acknowledgements	iv
Executive Summary	1
PART I	
SECTION 1: Watershed Description	5
SECTION 2: Planning Approach	8
SECTION 3: Goals and Objectives	11
SECTION 4: Actions Actions Underway or Completed Recommended Actions How Do Actions Support Goals and Objectives?	14 15 16 27
PART II	
SECTION 5: Framework of Institutional and Regulatory Responsibility	29
SECTION 6: Watershed Characterization Physical and Environmental Factors Water Quality Recreation and Access Watershed Education Infrastructure and Planning Identified Data Gaps	32 33 42 44 47 47 59
SECTION 7: Resource Needs	60
SECTION 8: Progress Benchmarks	62
SECTION 9: Conclusions	64
SECTION 10: Literature Cited	66
APPENDIX A: Rare Species and Natural Communities	70
APPENDIX B: Memorandum of Agreement	74
APPENDIX C: Description of Natural Resource Preservation Tools	87
APPENDIX D: Description of Farm Programs	91

ACKNOWLEDGEMENTS

David Fuss, Director of the Dragon Run Special Area Management Plan, at the Middle Peninsula Planning District Commission, compiled this report for the Dragon Run Steering Committee. The Dragon Run Steering Committee members are:

County	Elected Official	Landowner	Landowner
Essex	M. "Prue" Davis	Dorothy Miller	M. Scott Owen
Gloucester	Rick Allen	Elizabeth DeHardit	Jerry Horner
King and Queen	Keith Haden	William F. Herrin	Russell Williams
Middlesex	Jack Miller	Robert Major	Davis Wilson

The Dragon Run Steering Committee wishes to thank its Advisory Group, who met monthly from March 2002 to October 2003 to develop this plan. The Steering Committee also wishes to thank Julie Bixby and the Virginia Coastal Program for providing funding and oversight for the project. Ancillary funding was provided by the Environmental Protection Agency's Chesapeake Bay Program through the Virginia Department of Conservation and Recreation, via grant agreement number BAY-2002-20-SR. This report was printed with funds generated from the sale of Chesapeake Bay license plates through a Chesapeake Bay Restoration Fund Advisory Committee grant.

The current Steering Committee wishes to thank all of the former Steering Committee members, without whose hard work this project never would have materialized. The Steering Committee must also acknowledge the Dragon Run watershed's landowners for their excellent stewardship of a precious resource. Without them, the watershed would no longer be pristine.



The Dragon Run Steering Committee

The Steering Committee would also like to thank all of the citizens who participated in any of the meetings that led to the production of this watershed management plan. Participants are listed below:

Lorna Anderberg Mike Anderberg **Neal Barber David Birdsall Kay Bradley Dick Brake** Craig Brann **David Clements Anne Ducey-Ortiz** W.D. Edwards, Jr. Frank Evans **Vladimir Gavrilovic** Robert E. Gibson William Hester **Matt Higgins** Mary Hohenberger **Robert Hudgins Eric Johnson** R.D. Johnson **Thomas Jordan** Paul Koll Mary Ann Krenzke **Andy Lacatell Lewie Lawrence** Carissa Lee **Beth Locklear** Clarence Major **Hubert Major** John E. Major Hersey Mason, Jr. **David Milby Warren Milby** William Milby **Elvin Miller** Nancy Miller John D. "Buddy" Moore John Munger Anne Newsom **Gordon Page Jimmie Pitts**

Karen Reay
Willy Reay
Davis Rhodes
Wright Robinson
Garrie Rouse
William Saunders
Sidney Sheldon
Will Smith
Hugh Soles
Pat Tyrrell
Hoyt Wheeland
Rachel Williams
Cathy Wilson
Rebecca Wilson

Executive Summary

As one of the Chesapeake Bay watershed's most pristine waterways, the spring-fed Dragon Run flows forty miles along and through nontidal and tidal cypress swamp situated in portions of Essex, King and Queen, Middlesex, and Gloucester Counties. The Dragon Run plays a central role in the Middle Peninsula's culture and identity. Natural resources - forestry and farming - have been the bedrock of the watershed's economy. These land uses, together with extensive swamps and unique natural resources, are the main reasons that the Dragon Run remains wild and secluded.

The Dragon Run's unique character evokes strong feelings to protect the pristine watershed in both long-time residents and first-time visitors alike. Yet, opinions differ about how to address the threats of encroaching development and habitat fragmentation. An innate difference in point of view between property rights advocates and conservationists centers on how to maintain a pristine watershed into the future. Yet, substantial common ground exists for proactively preserving the Dragon Run for future generations that safeguards both natural resources and traditional uses of the land and water, including the property rights of landowners.

The Dragon Run Watershed Special Area Management Plan (SAMP), a partnership between the Virginia Coastal Program and the Dragon Run Steering Committee of the Middle Peninsula Planning District Commission, is designed to address both the differences of opinion and the common ground that exist concerning the future of the watershed. The Steering Committee believes that the best approach is to bring stakeholders to the table for proactive discussions of the issues. The Steering Committee and its Advisory Group, representing a broad cross-section of the community, have proactively developed a mission, goals, objectives, and action plans to address the priority issues facing the Dragon Run.

This watershed management plan for the Dragon Run watershed represents a body of work by citizens, stakeholders, and decision-makers to achieve a common vision for the future – the preservation of the traditional uses and unique resources in the pristine Dragon Run. It is a symbol of regional cooperation and coordination that crosses jurisdictional boundaries. It is not a static document. Rather, it is a modifiable guidebook that harnesses the passion and energy for the Dragon Run of those who live, work, and play in its watershed.

MISSION

To support and promote community-based efforts to preserve the cultural, historic, and natural character of the Dragon Run, while preserving property rights and the traditional uses within the watershed.

GOALS

- 1. Establish a high level of cooperation and communication among the four counties within the Dragon Run Watershed to achieve consistency across county boundaries.
- 2. Foster educational partnerships and opportunities to establish the community's connection to and respect for the land and water of the Dragon Run.
- 3. Promote the concept of landowner stewardship that has served to preserve the Dragon Run Watershed as a regional treasure.

ACTIONS

Underway/Completed				
1.	Memorandum of Agreement			
2.	Establish Baseline Watershed Information			
3.	SAMP Project Awareness Campaign			
Recommended				
1.	Land Use and Resource Preservation			
	A. Designate a Unified "Dragon Run Planning Area"			
	B. Implement Tools to Preserve Farm, Forest, and			
	Natural Resources			
	C. Address Public and Landowner Access Issues			
	D. Control Invasive Species			
2.	Education and Landowner Stewardship			
3.	Encourage and Support Sustainable Economic			
	Development			
4.	Monitor Plan Implementation			