PATUXENT RESERVOIRS WATERSHED PROTECTION GROUP



Supplementary Documentation
In Support of the Patuxent Reservoirs
Technical Advisory Committee's
2011 Annual Report

Table of Contents

Table of Contents	ii
Figures	ii
List of Acronyms and Abbreviations	
Introduction	1
WSSC Land Acquisition Program	2
Agricultural Progress	4
Public Outreach Initiatives	6
Figures	
Figures	_
Figure 1. Former Trivelli property before tree planting	
Figure 2. Former Trivelli property after tree planting	2
Figure 3. Former White property before tree planting	3
Figure 4. Former White property after tree planting	3
Figure 5. Number of Conservation Plans Developed	4
Figure 6. Farm Acres with Conservation Plans	5
Figure 7. Number of Best Management Practices Installed	5
Figure 8. Carole Ann Barth of Prince George's County DER educating on-lookers at the Family	
Campfire	6
Figure 9. TAC Chair Howard Saltzman welcoming attendees at the Family Campfire	6
Figure 10. Preparing for the tree planting at Oaks Landfill	7
Figure 11. TAC's David Plummer assisting with tree planting	7

Appendices

- Appendix A: Annual Policy Board Meeting Presentation
- Appendix B: Annual Policy Board Meeting Summary
- Appendix C: Policy Board Correspondence
- Appendix D: Technical Advisory Committee Meeting Agendas and Summaries
- Appendix E: Patuxent Reservoirs Watershed Protection Agreement
- Appendix F: Patuxent Reservoirs Protection Strategy Agricultural MOU and Amendments
- Appendix G: Technical Advisory Committee Members and Participants

List of Acronyms and Abbreviations

Acronym	Definition			
ВМР	Best Management Practice			
CHL-a	Chlorophyll-a			
DNR	Maryland Department of Natural Resources			
DEP	Montgomery County Department of Environmental Protection			
DER	Prince George's County Department of Environmental Resources			
DO	Dissolved Oxygen			
ea	Each			
EPA	U.S. Environmental Protection Agency			
ft	Feet			
FY	Fiscal Year			
HSCD	Howard Soil Conservation District			
MACS	Maryland Agricultural Cost Share			
MDA	Maryland Department of Agriculture			
MDE	Maryland Department of the Environment			
mg/L	Milligrams per Liter			
Mg/m3	Milligrams per cubic meter			
M-NCPPC	Maryland-National Capital Park and Planning Commission			
MSCD	Montgomery Soil Conservation District			
PRW	Patuxent Reservoirs Watershed			
RG	Rocky Gorge			
SCD	Soil Conservation District			
SEP	Supplemental Environmental Project			
TAC	Technical Advisory Committee			
TMDL	Total Maximum Daily Load			
μg/L	Micrograms per Liter			
WSSC	Washington Suburban Sanitary Commission			

Introduction

This year's Technical Supplement contains more detailed information on efforts discussed in the 2011 Annual Report of the Technical Advisory Committee.

Supplemental information to this year's annual report contains the following information:

- Summary of the WSSC's Supplemental Environmental Project for land and conservation easement acquisitions,
- Summaries of the Howard and Montgomery Soil Conservation Districts agricultural progress within the Patuxent Reservoirs Watershed (PRW),
- Photos of the public outreach initiatives,
- Policy Board 2011 annual meeting presentation and summary,
- Policy Board correspondence during 2011,
- Technical Advisory Committee (TAC) meeting agendas and summaries,
- Patuxent Reservoirs Watershed founding documents, and
- List of TAC members and participants.

WSSC Land Acquisition Program

In 2011 the WSSC made improvements to the three properties purchased as a result of the Supplemental Environmental Project (SEP) to comply with the conditions from a Consent Decree with regulatory authorities over sanitary sewer overflows. Improvements to those properties included among others activities trash cleanup and tree plantings (Figures 1-4).



Figure 1. Former Trivelli property before tree planting



Figure 2. Former Trivelli property after tree planting



Figure 3. Former White property before tree planting



Figure 4. Former White property after tree planting

Agricultural Progress

Annual accomplishments of the Howard (HSCD) and Montgomery (MSCD) Soil Conservation Districts were summarized in Table 1 of the *2011 Annual Report of the Technical Advisory Committee*. Three charts are included to summarize the historical efforts of both SCDs since 1999 (Figures 5-7).

The number of *new* Conservation Plans developed throughout the watershed (n = 22) was the same as in 2010 (Figure 5). Planners from the HSCD also revised seven additional Conservation Plans. Since 1999, both SCDs have developed a total of 198 plans and revised 67 additional plans.

The agricultural land area within the PRW having a Conservation Plan likely increased from 2010 levels since acreage totals reported in 2011 were from Montgomery SCD only (Figure 6). This total does not include the land area where conservation plans were updated (approximately 543 acres). Since 1999, both SCDs have developed conservation plans for a total of 10,108 acres (almost 16 square miles) and an additional 6,590 acres for revised plans.

The number of agricultural best management practices (BMPs) constructed in 2011 (n = 197 practices) has steadily increased since 2009 and almost doubled 2009 levels (Figure 7). The number of BMPs installed is one indicator of how well the conservation plans are being implemented. Since 1999, both SCDs have assisted with the installation of a total of 1,934 practices in the Patuxent Reservoirs Watershed alone.

Agricultural Conservation Efforts in the Patuxent Reservoirs Watershed Howard and Montgomery Soil Conservation Districts Number of Conservation Plans Developed

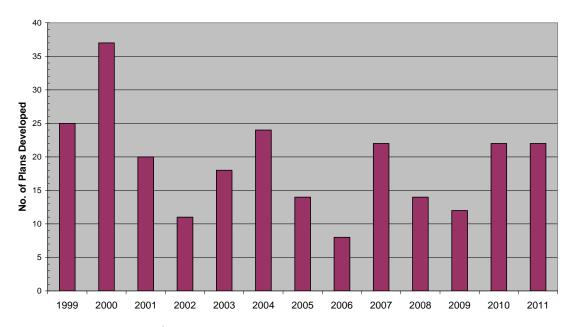


Figure 5. Number of Conservation Plans Developed

Agricultural Conservation Efforts in the Patuxent Reservoirs Watershed Howard and Montgomery Soil Conservation Districts Land Area with Conservation Plans Developed

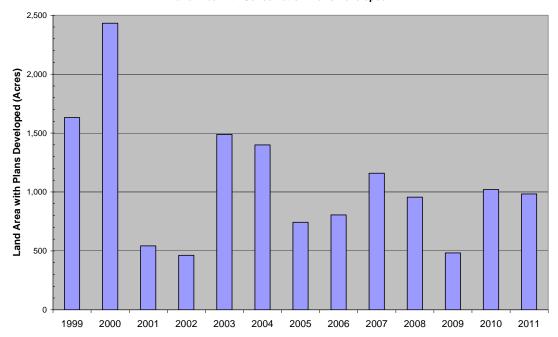


Figure 6. Farm Acres with Conservation Plans

Agricultural Conservation Efforts in the Patuxent Reservoirs Watershed Howard and Montgomery Soil Conservation Districts Number of Best Management Practices (BMPs) Installed

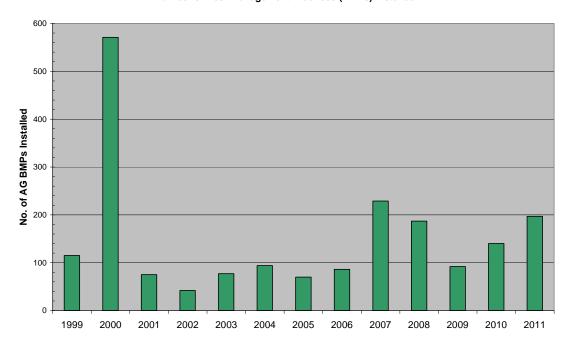


Figure 7. Number of Best Management Practices Installed

Public Outreach Initiatives

Several successful public outreach events occurred in 2011 including the annual Family Campfire event (Figures 8 and 9) and the Oaks Landfill reforestation project (Figures 10 and 11).



Figure 8. Carole Ann Barth of Prince George's County DER educating on-lookers at the Family Campfire



Figure 9. TAC Chair Howard Saltzman welcoming attendees at the Family Campfire



Figure 10. Preparing for the tree planting at Oaks Landfill



Figure 11. TAC's David Plummer assisting with tree planting



Patuxent Reservoirs Watershed Protection Group

Annual Meeting of the Policy Board

March 13, 2012











The Maryland-National Capital Park and Planning Commission







Our Partnership's 15th Year!

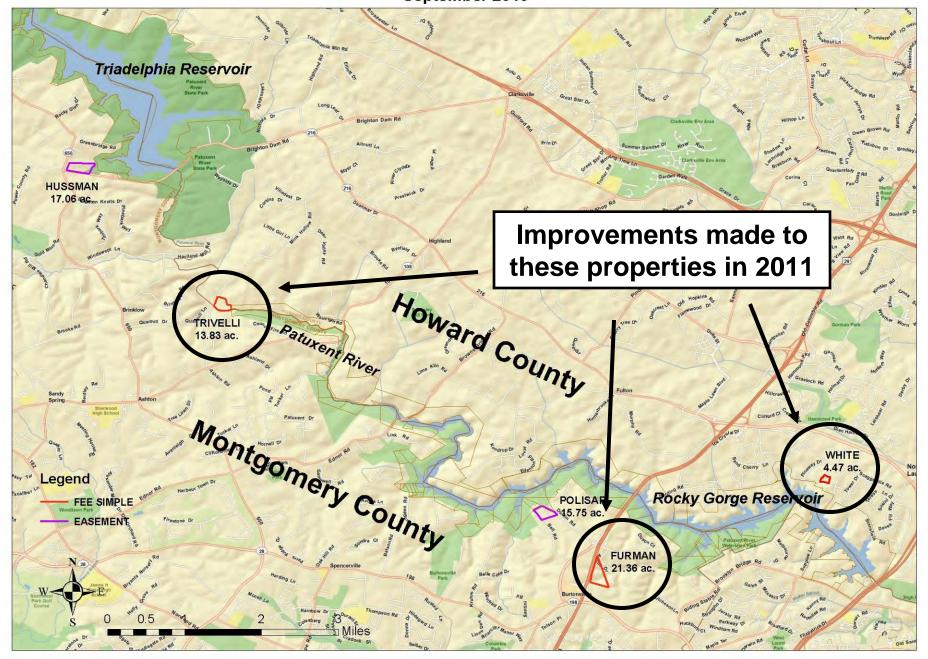
Highlights of 2011 Accomplishments

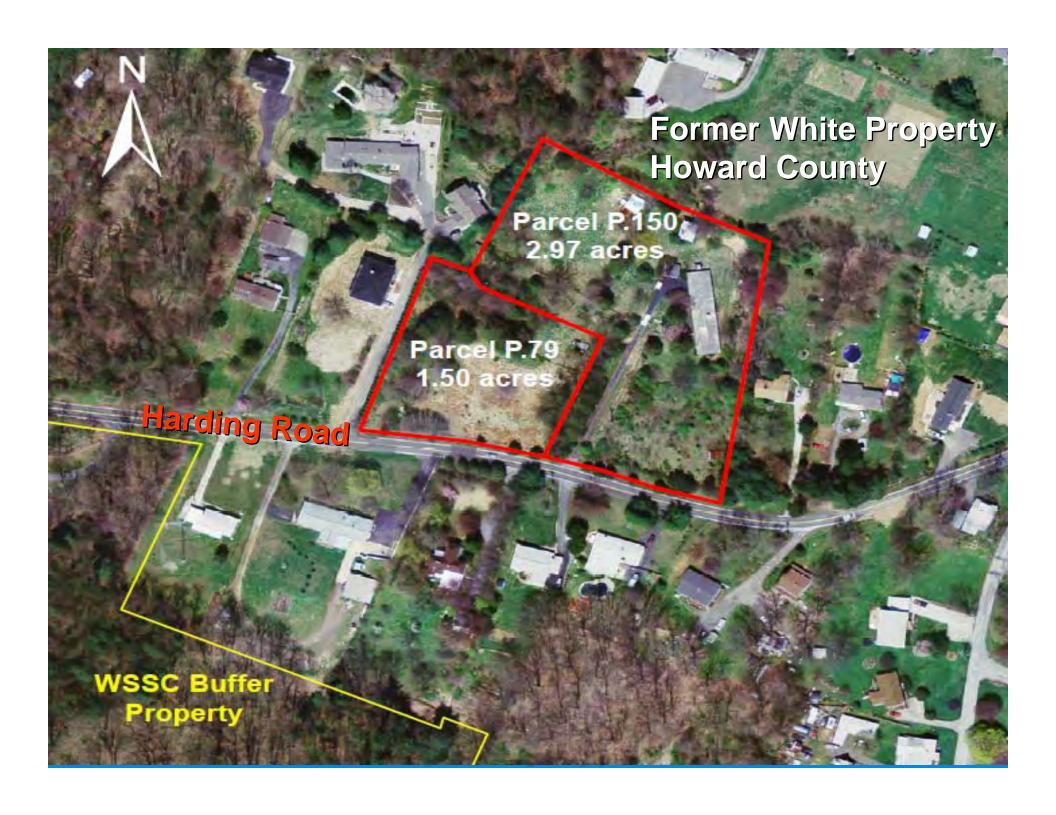
Reservoirs & Water Supply
Terrestrial Habitat
Stream System
Aquatic Biota
Rural Character & Landscape
Public Awareness & Stewardship

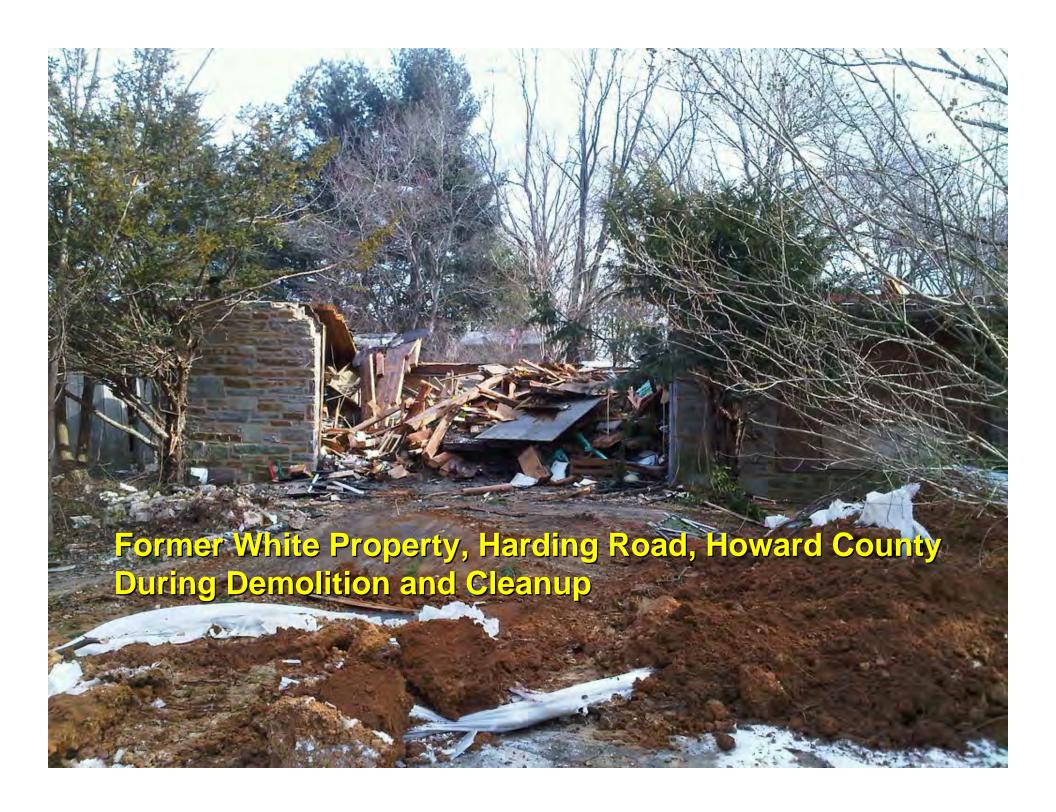
Terrestrial Habitat

- Improvements to three land parcels acquired because of WSSC Consent Decree
 - Buildings and trash removed
 - Leaking Underground Storage Tank removed with contaminated soil
 - Trees planted on 5 acres

PROPERTIES AND CONSERVATION EASEMENTS ACQUIRED BY WSSC FOR PATUXENT RESERVOIRS WATER QUALITY PROTECTION September 2010











Rural Character & Landscape



Practices Installed in 2011 with Patuxent Cost-Share Program Funds

Contract Signed with Horse Owner for stream fencing using cost-share funds

Stream Protection Benefits

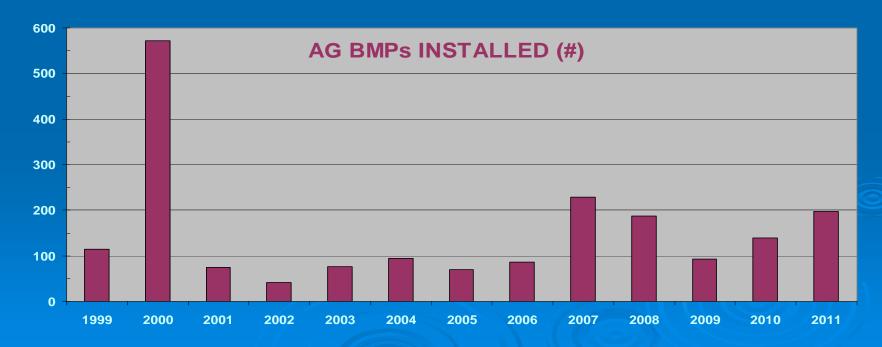
- Excludes livestock
- Stabilizes stream channel
- Establishes vegetative buffer zone



Rural Character & Landscape

Some of the efforts by both SCDs:

- Developed/revised 29 Soil Conservation & Water Quality Plans (~2,000 acres)
- Assisted with installation of 197 BMPs



Public Awareness & Stewardship

- Many Outreach Events Held in 2011
 - H2O Fest, Watershed Day, & Family Campfire
 - Patuxent River & Adopt-A-Road Clean-Ups
 - Invasive Plant Maintenance for Tree Plantings



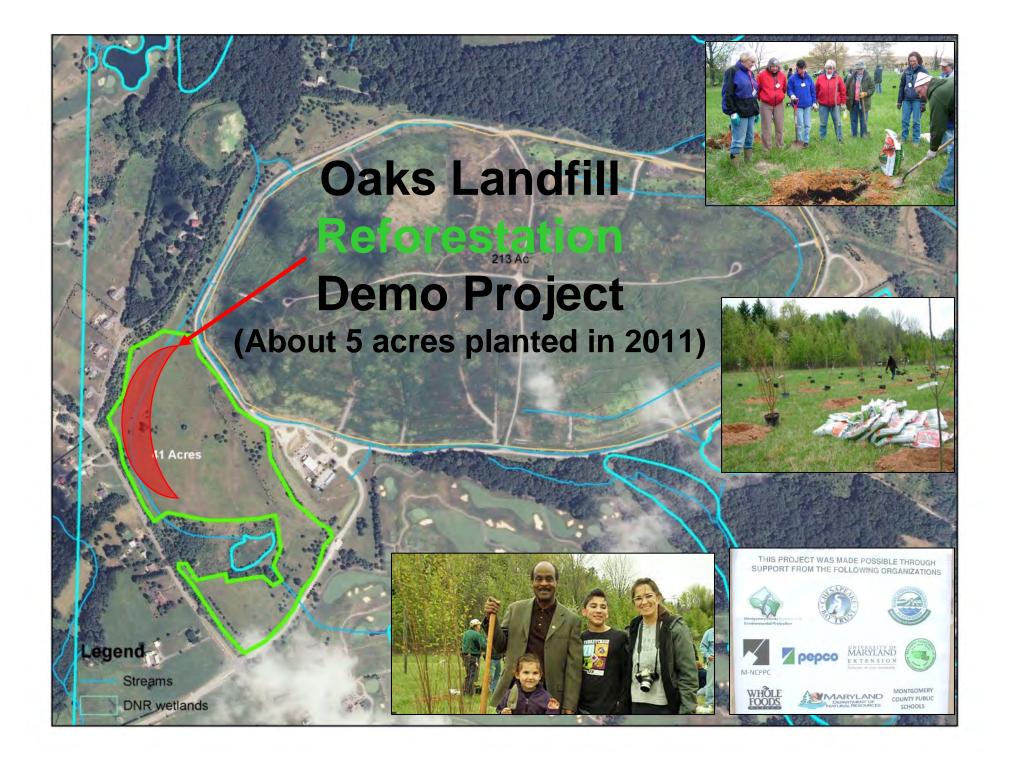


Family Campfire



Fishing Derby

Patuxent River Cleanup



Resource Protection Opportunities using Existing Funding Sources

- > Forest Conservation Act Howard & M-NCPPC
- > Stream ReLeaf Howard
- Leaves 4 Neighborhoods M-NCPPC
- Patuxent Ag. Cost-Share Program MSCD
- Conservation Reserve Enhancement Program (CREP) – SCDs
- Rainscapes Rewards Montgomery
- Green Schools Counties, WSSC



Our Partnership - Our Challenges Looking Ahead

- Addressing TMDLs for the Reservoirs
- Exploring Opportunities for Continued Resource Protection with Funding Limitations

Questions or Comments?

Reservoir TMDLs

Addressing TMDLs

Established Total Maximum Daily Load (TMDLs)

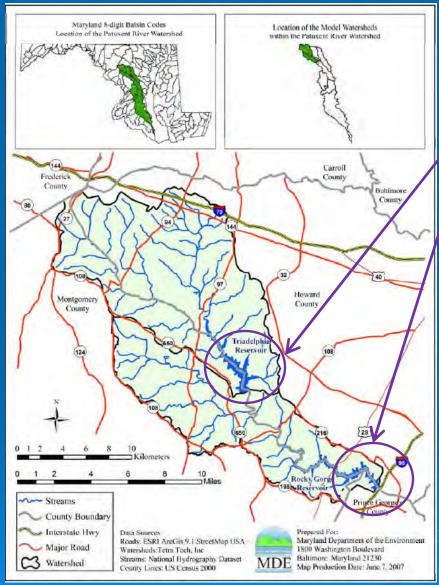
- Triadelphia Reservoir
 - Phosphorus and Sediment
- Rocky Gorge Reservoir
 - Phosphorus

MDE – submitted to EPA June 2008

EPA – approved November 2008

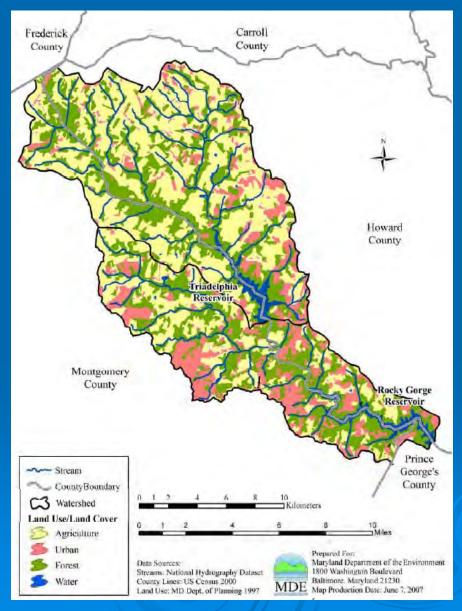
NPDES MS4 Stormwater permits-implementation plans required

Reservoir Locations

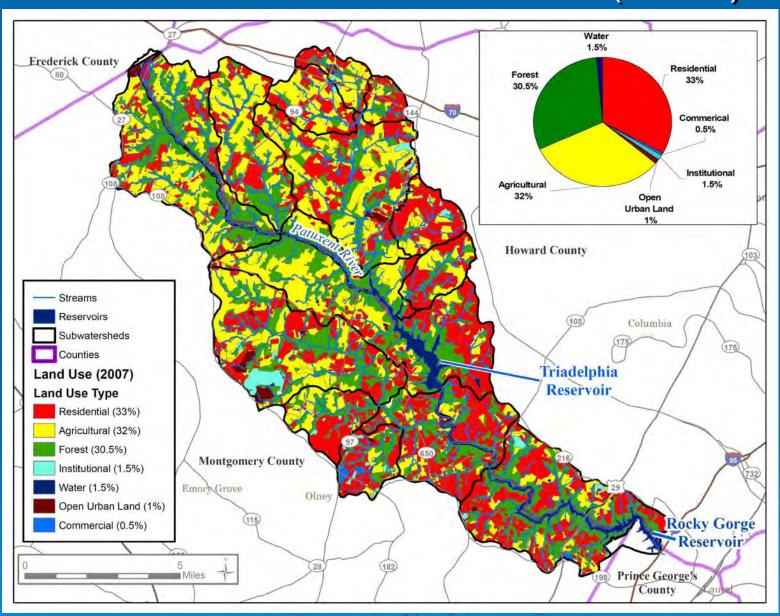


Characteristic	Triadelphia	Rocky Gorge
Location:	Howard Co. Montgomery Co.	Howard Co. Montgomery Co. Prince George's Co.
Purpose:	Water Supply Recreation	Water Supply Recreation
Surface Area:	800 acres	773 acres
Volume:	19,000 ac-ft	17,000 ac-ft
Drainage Area:	49,500 acres	84,480 acres
Av. Discharge:	82.4 ft ³ / sec	85.9 ft ³ / sec

Land Use / Land Cover (1997)



Land Use / Land Cover (2007)



Expected Load Reductions

Waterbody		Triade	elphia	Rocky Gorge
Constituent	TP (II	bs/yr)	Sediments (tons/yr)	TP (lbs/yr)
Base Load		65,953	32,141	46,935
Percent Reduction		58%	29%	48%
TMDL		27,700	22,820	24,406
WLA		5,288	400	7,429
LA		21,027	22,420	15,757
MOS	\uparrow	1,385	Implicit	1,220

Regulated under NPDES (Urban & WWTP)

Un-Regulated non point sources (agriculture & large lot residential development)

Point Source Load Distribution

Total Phosphorus and Sediment Loads Attributed to Point Sources in the Triadelphia Reservoir Nutrient and Sediment TMDLs

Point Source Name	Permit Number	TP (lbs/year)	Sediment (tons/year)	Flow (MGD)	Concentration (mg/l)	
					TP	Sediment
Howard County	MD0068322	4,672	354			
Montgomery County	MD0068349	616	47			
Total		5,288	400			

Table 1B

Total Phosphorus Loads Attributed to Point Sources in the Rocky Gorge Reservoir
Nutrient TMDLs

Point Source Name	Permit Number	Nutrient Loads (lbs/year)	Flow (MGD)	Concentration (mg/l)	
		TP		TP	
FEMA WWTP	MD0025666	182	0.01	6.0 mg/l	
Howard County	MD0068322	1,512			
Montgomery County	MD0068349	5,581			
Prince George's County	MD0068284	154			
Total		7,429			

MDE's Assurance for Implementation

- NPDES Regulated Programs
- Maryland's Tributary Strategies
- Water Quality Improvement Act of 1998
 - Nutrient Management Plans for Agriculture
- Patuxent Reservoirs Watershed Protection Group Agreement
- MDE's Watershed Cycling Strategy
 - Routine WQ monitoring

Questions?

Draft Framework for Patuxent Reservoirs Watershed Protection Study Enhancing Management of WSSC's Reservoir Water Quality Buffer Property

EA Engineering, Science & Technology, Inc. Chesapeake Environmental Management, Inc.



Patuxent Reservoirs Watershed Protection Study

Purpose

 Provide WSSC with Recommendations for Managing its Owned Reservoir Buffer Property

Overview (study components)

- Data compilation
- Data evaluation
- Field reconnaissance
- Reporting (stakeholder outreach; findings & recommendations)



Compilation and Review of Available Information

- WSSC water quality reports
- WSSC regulations
- Source Water Assessment
- Forest Conservation Plan
- Existing relevant information from industry, other public agencies
- Maps and material from Trail Riders of Today (TROT), hunters, boaters, fishermen and other recreation users
- GIS mapping from WSSC and other sources (soils, slopes, etc.)
- Buffer management practices for other water utilities



Stakeholder Outreach

- Introductory Meetings
 - Separate meetings for Triadelphia Reservoir and Rocky Gorge Reservoir stakeholders
 - Present work plan to stakeholders
 - Solicit feedback from stakeholders
- Follow-up Meetings
 - Present findings of study



Reservoir Buffer Assessment

- GIS Mapping and Evaluations
 - Erosion potential
 - Public access points
 - Trails and access roads (visible on maps and air photos)
 - Sensitive environmental features



Reservoir Buffer Assessment

- Field Reconnaissance Studies
 - Document potential water quality impacts
 - Ground truth desktop GIS mapping data
 - Assess safety and suitability of access points
 - WSSC access road assessment
 - Fishing trail assessment
 - Horseback riding trail assessment
 - Document signs of erosion and sections of roads and trails with high erosion potential



Findings and Recommendations

- Recommendations for potential modifications to reservoir buffer management
- Best practices for source water protection and management of reservoir buffer lands
 - Practices for reducing nutrients, sediment, toxics, and bacteria impacts to help meet water quality goals and TMDLs
 - Specific recommendations for WSSC land management of its buffer property
 - Policies for allowing and/or controlling public access to the property



Findings and Recommendations (continued)

- Best practices for source water protection and management of reservoir buffer lands
 - Security considerations
 - Recreational uses, as appropriate
 - Improvements needed at designated public access points
 - Planning level scope and cost implications
 - Suitable trail locations and improvements
 - Planning level scope and cost implications







Joshua D. Feldmark	Howard County
William F. Barnes	Howard Soil Conservation District
Françoise M. Carrier, Esq Maryland-Nat	ional Capital Park and Planning Commission
Robert G. Hovt	Montgomery County
George E. Lechlider	Montgomery Soil Conservation District
Samuel E. Wynkoop, Jr, Chair	Prince George's County
Jerry N. Johnson	

April 12, 2012

Dear Policy Board Member:

CC:

On behalf of the Patuxent Reservoirs Watershed Protection Group, I would like to thank you for participating in our recent annual meeting of the Policy Board. We were challenged to increase our commitment to protect and enhance the natural resources within the reservoirs' watershed. The informative discussion between the Technical Advisory Committee (TAC) and the Policy Board members revealed a number of challenges to accomplish our goals. Enclosed is a summary of the meeting prepared by Steve Nelson, the TAC Coordinator. If you have any comments or questions, please contact Steve at (301) 206-8072.

Since 1996, the Patuxent Reservoirs Watershed Protection Group has worked together to address water quality and resource protection goals. An increased level of cooperation will be necessary to address the challenges presented by the Total Maximum Daily Loads (TMDLs) for phosphorus and sediment that were established by the Maryland Department of the Environment for the Triadelphia and Rocky Gorge water supply reservoirs in 2008.

It is my understanding that the TAC held its initial meeting after the Policy Board gave a directive to develop a work plan for an eventual TMDL Implementation Plan. During that meeting, the TAC identified several potential obstacles to completing a work plan by September 2012 including the TAC members' limited time availability and the need to identify a central agency or entity to coordinate a multi-jurisdictional TMDL implementation plan.

The TAC is planning to hold frequent conference calls in addition to quarterly meetings to formulate recommendations for addressing TMDL implementation/tracking efforts to be presented for discussion during the upcoming annual Policy Board meeting.

Sincerely,

Samuer E. Wynkoop, Jr.

Director, Prince George's County

Department of Environmental Resources

Patuxent Reservoirs Watershed Technical Advisory Committee Steve Nelson, WSSC Environmental Scientist and TAC Coordinator

Technical Advisory Committee

Rert Nivon HCDH	Susan Overstreet, HCDP&Z	Howard Saltzman, HCDPW
Kristal McCormick, HSCD	Byron Petrauskas, MDA	Vacant, MDE
Vacant, MDNR	Mark Symborski, M-NCPPC	Meosotis Curtis, MCDEP
Vacant, MCDPS	David Plummer, MSCD	Ken Clare, PGCDH
Jerry Maldonado, PGCDER	Martin Chandler, WSSC	



Patuxent Reservoirs Watershed Protection Group

Annual Policy Board Meeting Summary

March 13, 2012 Washington Suburban Sanitary Commission, Auditorium

Policy Board:

Joshua Feldmark, Howard County (Chair)
William Barnes, Howard Soil Conservation District
Françoise Carrier, Maryland-National Capital Park and Planning Commission
Robert Hoyt, Montgomery County
George Lechlider, Montgomery Soil Conservation District
Samuel Wynkoop, Jr., Prince George's County
Jerry Johnson, Washington Suburban Sanitary Commission

Technical Advisory Committee (TAC) Members and Alternates Present:

Martin Chandler (WSSC), Meo Curtis (MCDEP), Kristal McCormick (HSCD), Jerry Maldonado (PGCDER), Angela Morales (HCDPW), Bert Nixon (HCDH), Susan Overstreet (HCDPZ), Byron Petrauskas (MDA), David Plummer (MSCD), Howard Saltzman (HCDPW), Mark Symborski (MNCPPC), Debbie Weller (PGCDER)

Other Attendees:

Sandy August (WSSC), Jim Caldwell (Howard County), Robert Ensor (HSCD), Gary Gumm (WSSC), Mohammad Habibian (WSSC), Kim Knox (WSSC), Steve Nelson (WSSC), Mike Powell (EA Engineering, Science, and Technology), Jay Price (WSSC)

Welcome and Opening Remarks

The meeting opened at 2:25 p.m. Mr. Johnson, WSSC General Manager, welcomed everyone present. Mr. Feldmark, Policy Board Chair, mentioned that he was looking forward to the discussion, and turned to Mr. Saltzman, past TAC Chair, to begin his presentation of 2011 accomplishments.

2011 Annual Report of Accomplishments

Mr. Saltzman summarized the TAC's accomplishments in 2011, noting the following highlights:

- WSSC made improvements to three parcels of land acquired in the watershed as a winwin action for meeting the Sanitary Sewer Overflow Consent Decree requirements as well as for watershed protection. The improvements included planting trees, cleaningup trash, and removing a leaking underground storage tank.
- Agricultural efforts included: developing conservation plans for 2,000 acres of land, assisting with the installation of 197 BMPs, and sponsoring several outreach efforts.

Many community outreach events occurred in 2011 including: the WSSC-sponsored H20
Fest, Watershed Day and Family Campfire; a reforestation demo project at the Oaks
Landfill site in Montgomery County; various watershed trash cleanups; and workshops
and activities by the Izaak Walton League of America - Wildlife Achievement Chapter

Anticipated Funding Needs for Patuxent Agriculture Cost-Share Program at Howard SCD Mr. Ensor summarized key points of the briefing summary, which had been distributed to the Policy Board prior to the meeting. He remarked that it has been a successful program over the years, but that all funding for Howard County has been depleted.

He asked the Policy Board to support two requests: 1) \$50,000 annual funding, and 2) needed modifications to the cost-share agreement language that would foster greater use by both SCDs. He suggested two modifications that are needed to increase the programs usefulness: 1) eliminate the restriction that requires BMPs to be located within 300 feet of a stream, and 2) add manure storage to the list of qualifying BMPs, considering results from the 2008 survey of horse owners.

Q&A

Q: Mr. Wynkoop asked if the Patuxent cost-share program integrated into the WIP process? A: Mr. Ensor responded, no, it is not integrated into WIP since this program is targeted towards small landowners ineligible for larger state/federal programs, which are accounted for in the WIP process.

Q: Mr. Wynkoop asked if eligible BMPs (especially manure storage facilities) are accepted in the MAST model.

A: Mr. Ensor responded, yes all BMPs can be accepted into the MAST model. Those that are cost shared through the state MACS program are in a database and automatically counted by the state, those that are in the NRCS EQIP database are added by the state and counted. Those that are funded by a local entity or individual (Patuxent cost-share, Ducks Unlimited, Chesapeake Bay Trust, individual farmers, etc.) are not yet in a database and must be added by the local Conservation District through the state Conservation Tracker database and program. So they are accepted, though not always discovered and counted by the local Conservation District.

Discussion of this matter was resumed later during the meeting.

- Mr. Ensor suggested that the two recommendations (i.e., continued funding and modifications to cost-share agreement) should be pursued independently.
- Mr. Feldmark said that Howard County would commit to fund their share of this program.

Q: Mr. Plummer asked if WSSC would continue to fund this program.

A: Mr. Gumm, representing Mr. Johnson who had to leave early, commented that he would like some assurance that historic funds spent have helped to reduce pollutant loads before WSSC would commit to continued funding. At the end of further discussion, Mr. Gumm said that "in a

spirit of cooperation," WSSC would consider request funding in the FY14 budget, but with the understanding that justification for the program's effectiveness would need to be provided to WSSC. It was not stated if either Howard County or WSSC would request funds on an *annual* basis as has been requested by HSCD.

TMDL Implementation

WSSC Concerns and New Initatitives

Mr. Johnson introduced this topic and noted that WSSC owns and controls a very small portion of the reservoirs' watershed [about 6%]. He suggested that the PRWPG may be better able to address source water protection issues now, after 15 years of study and experience, rather than when the partnership began. He expressed a deep concern that the reservoirs' water quality would deteriorate if the PRWPG continues at its current level of effort. He stated that source water protection is less costly than adding more treatment processes.

As a step in the right direction towards source water protection, Mr. Johnson noted that WSSC recently hired EA Engineering Science and Technology (EA) to recommend ways to improve the management of WSSC lands surrounding the reservoirs with a primary goal of protecting reservoir water quality. He emphasized that this study is only a beginning, that the PRWPG still needs to do much more to meet the load reductions as guided by the TMDLs, and then he contended that the PRWPG must be reinvigorated, strengthened, and willing to cooperate to achieve these difficult goals.

Q&A

Q: Mr. Hoyt asked what are the goals of the study to be done by EA?

A: Mr. Johnson responded that the goals are focused on improving and protecting the reservoirs' water quality by managing WSSC lands that immediately surround the reservoirs.

Q: Mr. Hoyt asked if this study was related to or initiated by the horseback riding issue?

A: Mr. Johnson said no, but added that all types of recreation will be evaluated to insure compatibility with maintaining the reservoirs' water quality.

Mr. Johnson then introduced Mike Powell from EA who gave a short presentation to the group outlining key elements of the study, including:

- Compilation and analysis of existing data and previous studies
- Outreach to stakeholders
- Desktop GIS analysis
- Field reconnaissance of public access points, trails and roads
- Reporting of findings and recommendations.

Q: Ms. Morales asked about the study costs and the staffing level commitment.

A: Mr. Powell replied the current task order totaled \$100,000 [for Phase IA], and that there were up to three senior scientists, five field technicians, in addition to five minority business employees assigned to the project.

Q: Ms. Carrier asked how this project was related to meeting the TMDLs.

A: Mr. Gumm responded that the study findings will provide information that identifies what WSSC could do on its lands to improve water quality. He added that WSSC is leading by example and is hoping that similar efforts by others will be taken up in the entire watershed eventually.

Q: Mr. Feldmark asked what role, if any, the Policy Board would play.

A: Mr. Gumm responded that staff on the TAC do not have the budget authority of the Policy Board. The purpose of the Policy Board is to provide leadership and ensure funding. The Policy Board could be a catalyst to coordinate involvement of member agencies to look at these challenges holistically.

After the discussion of WSSC's study concluded, Ms. Carrier proposed that the TAC explore and identify the resources needed to create an implementation plan to address TMDL pollutant reduction goals. To meet M-NCPPC budget deadline of January 15, she suggested this task be completed by the end of September and presented at the next PRWPG meeting in early October.

Mr. Maldonado, current TAC Chair, gave a presentation on the Reservoir TMDLs.

- It was noted that currently the Reservoir TMDLs are goals that lack a mandated deadline, with the exceptions of Bay TMDL implementation plans for agriculture and point-source waste loads associated with municipal separate storm sewer systems (MS4) regulated via NPDES permits that require TMDL implementation plans.
 Montgomery County has developed such a plan for its MS4 permit area, and it is expected that Howard and Prince George's Counties would soon also be required to do so.
- Mr. Maldonado asked what the best approach would be to address the TMDLs. Should the TAC lead or simply monitor the progress towards implementation?
- Ms. Curtis suggested that this effort lacks dedicated staff (e.g., agency staff or a
 consultant) to create a coordinated implementation plan for the entire watershed. She
 also added that the initial investigation should determine to what extent the existing
 implementation plans make progress toward the TMDLs. She then asked if the efforts
 of all entities involved will meet the TMDLs together.

Mr. Feldmark asked if there was consensus among Policy Board members to direct the TAC to develop a work plan and propose a budget to create a TMDL implementation plan. All Policy Board members agreed the TAC should develop a work plan and propose a budget necessary to create an implementation plan addressing the reservoir TMDLs. This work plan and budget should be presented to the Policy Board at the next annual meeting to occur either the first or second week of October 2012.

Administrative Business

Mr. Feldmark transferred the Policy Board Chair to Mr. Wynkoop of Prince George' County. Mr. Wynkoop adjourned the meeting at approximately 3:50 p.m.

Appendix C: Policy Board Correspondence

Briefing Papers for Annual Meeting with Policy Board

Paper #1: Continued funding for Patuxent Reservoirs Watershed Agricultural Cost-share Program

Paper #2: Total Maximum Daily Load Implementation Planning – opportunities and impediments to progress

Paper #3: Modifications to the Patuxent Reservoirs Watershed Agreement

Briefing Summary #1

<u>Topic</u>: Continued funding of the Patuxent Reservoirs Watershed Agriculture Cost-Share Program for the Howard Soil Conservation District

Summary of the Issue

In 1998, all signatories to the Patuxent Reservoirs Watershed Protection Agreement signed a Memorandum of Understanding (MOU). This MOU established that Howard County, Montgomery County and WSSC would provide equal contributions to support a stream-side cost-share program and a conservation planner dedicated to the reservoirs watershed within Howard and Montgomery Counties. The initial cost-share program provided the non-federal/State supplement of 12.5% for stream-side practices. In 2000, the MOU was amended to remove the conservation planner position and revise the cost-share program to make it applicable to non-agriculturally zoned properties (which were not eligible for federal and State cost-share funds) and provide an incentive payment or 80% cost-share, with a limit of \$5,000, for best management practices (BMPs) installed within 300 feet of a stream located on their property. In 2004, the MOU was amended again to delete the non-agriculturally zoned requirement and allow the cost-share funds to be used on all properties.

Since 2001, using \$35,199.02 of MOU funds, the following best management practices (BMPs) were installed in Howard County's portion of the reservoirs' watershed:

- Watering Trough (8) alternative water source reducing stream channel impacts
- Stream Fencing (5271 ft) prohibits animals from accessing stream channel
- Grassed Waterway (0.7 acre) reduces soil and nutrient loss from farm field
- Stream Crossing (3) allows safe passage of livestock while protecting stream banks and water quality
- Riparian Forest Buffer (1.75 acres) filter nutrients and sediment

To date Howard Soil Conservation District (HSCD) has used the initial funds received as well as a majority of \$7,000 of WSSC funds transferred from Montgomery Soil Conservation District (MSCD) to HSCD. The current balance in the HSCD account is \$752.22. Refer to the table below for a detailed accounting.

There remains \$44,845 available for use by Montgomery County residents. Requests for technical assistance and BMP implementation over the last decade within the Patuxent Reservoir areas of Montgomery County have predominantly been from operations that qualify for other state and federal cost-share programs, which generally turn out to be more lucrative for the landowner. Until recently, Montgomery County landowners have not found the Patuxent cost-share program as useful as other programs. Some interested landowners have also run into conflicts with the eligibility requirements (e.g. BMPs located within 300 feet of a stream that must reside on the

landowner's property, the list of qualifying BMPs does not include animal waste holding facilities), and would benefit from a few, much needed amendments to the program guidelines. HSCD has suggested the MOU be amended to add animal waste holding facilities as a qualifying BMP and to increase the maximum amount of money a landowner can receive to \$10,000.

There remains a need for cost-share funds to assist small-scale farmers, including the smaller equine operations that are prevalent in Howard County. Many times these smaller operations do not qualify for other cost-share programs. Any additional BMPs installed would help move us forward to meet the Total Maximum Daily Loads limits set forth by the USEPA.

Action Requested from the Policy Board

The requested action on part of the Policy Board is to allocate \$50,000 annually for the Patuxent Reservoirs Watershed Agriculture Cost-Share Program for use by the HSCD. Continued funding would meet the current and anticipated future demand for BMP implementation by watershed landowners. No funds are being requested from Montgomery County agencies since there are funds remaining for use by MSCD from the current cost-share program.

Accounting of Patuxent Reservoirs Watershed Agriculture Cost-Share Funds for HSCD

	INCOME		EXPENSES		
Year	Source	Amount	Year	Purpose	Amount
1999	Howard County	\$33,333	1999-2000	Salary for Planner Position	\$55,995
1999	WSSC*	\$16,666	1999	Horse Mini Expo	\$1,815
2000	Howard County	\$25,000	2000-2002	Education & Outreach	\$523
2000	WSSC	\$12,500	2001	Cost-Share Promotion Mailing	\$215
2010	MSCD	\$7,000	2001- present	Cost-Shared BMP Projects	\$35,199
Fur	nds Received to Date:	\$94,499		Funds Spent to Date:	\$93,747

^{*}WSSC contributed \$33,333 to MSCD as the planner position was to be managed through this office. HSCD managed the position so MSCD transferred \$16,666 to HSCD.

Briefing Summary #2

<u>Topic</u>: Total Maximum Daily Load Implementation Planning – opportunities and impediments to progress

Summary of the Issue

The Maryland Department of the Environment (MDE) determined in 1998 that the quality of the water in the Patuxent Reservoirs is impaired for the intended uses, which includes public water supply. The impairment is attributed to nutrient pollution by total phosphorus in both reservoirs, and by excess sedimentation in Triadelphia Reservoir, which affects not only total phosphorus loads in the reservoir (since phosphorus is often associated with sediment) but also reduces storage capacity for a sustainable water supply. In November 2008, the USEPA approved the Total Maximum Daily Loads (TMDLs) developed by MDE to protect water quality in the reservoirs. The TMDLs establish the "pollution diet" that will result in the reservoirs' being capable of meeting water quality standards for dissolved oxygen and chlorophyll a, and serving their intended uses. Significant pollutant load reductions from baseline conditions will be needed to achieve water quality standards. Triadelphia Reservoir requires a 58% reduction in phosphorus loads and a 29% reduction in sediment loads; Rocky Gorge Reservoir requires a 48% reduction of phosphorus loads.

The nutrient impairments are generally manifested as seasonal or periodic algal blooms that result in algal decay in the reservoirs that contributes to depletion of oxygen in the deeper waters of the reservoirs. This oxygen depletion can contribute to release of manganese from sediments into the water, making the water more difficult to treat, and it can also compound the algal blooms by releasing phosphorus from sediments. These algal blooms can also result in adverse taste and odor that make the water more difficult to treat. Finally, the algal blooms can also increase the amount of organic matter in the water, which can contribute to elevated levels of disinfection byproducts (DBPs) in the finished water. The levels of several DBPs are regulated by EPA to protect against potential adverse health effects.

To meet the TMDLs for the reservoirs, a watershed implementation plan will be needed. Previous reservoirs-related studies focused on identifying existing conditions and programmatic needs, opportunities, and recommendations for improving the general health of the reservoirs. The Reservoirs TMDL Implementation Plan, however, will identify the specific urban and agricultural Best Management Practices (BMPs) needed to achieve numeric TMDLs, and a staged implementation schedule with interim milestones leading to the final TMDL goals.

The approved TMDL document did not provide a specific timeframe for completion of an implementation plan for how or when the pollutant reductions would be met. The TMDL document does contain a short concluding section (*Assurance of Implementation*) that identified five factors that may be drawn upon to provide a reasonable assurance of implementation. These

factors include National Pollutant Discharge Elimination System (NPDES) permits, Maryland's Tributary Strategies for Nutrient Reductions, Maryland's Water Quality Improvement Act of 1998, the Patuxent Reservoirs Protection Agreement to protect water quality in the reservoirs, and Maryland's five-year watershed cycling strategy to evaluate progress of meeting the TMDL load reductions. The Agreement provides an opportunity for the jurisdictions to identify a coordinated interagency implementation plan to achieve nutrient and sediment reductions to meet the TMDLs.

Progress/Opportunities to address TMDLs for the Reservoirs

- 1. Agricultural Best Management Practices (BMPs) installed from Soil Conservation Districts efforts
- 2. Strategy developed and funding allocated to address urban stormwater load reductions needed to meet Montgomery County's NPDES Stormwater Permit requirements
- 3. Past studies provide a significant amount of basic data regarding current conditions, needs, and opportunities for water quality improvement
- 4. Ongoing work by the Maryland Department of Agriculture and the county Soil Conservation Districts on the Chesapeake Bay TMDLs Watershed Implementation Plan provides a model for addressing pollutant loadings from the agricultural sector that could be adapted to addressing the agricultural portion of the Patuxent Reservoirs TMDLs
- 5. The next NPDES permit in Howard County (expected in June 2012) will require an implementation plan to achieve urban stormwater load reductions

Barriers to Further Progress

- 1. There is no regulatory requirement deadline to achieve TMDL reductions other than pollutant loads from the urban stormwater sector, which is a relatively small portion of the needed reductions.
- 2. Insufficient resources have been dedicated to reduce pollutant loads needed to meet TMDLs other than for urban stormwater load reductions in Montgomery County.
- 3. There is no multi-jurisdictional mechanism to create, manage, and implement a plan to address the TMDLs.

Benefits of Coordination

- 1. Multi-jurisdictional cooperation is needed to develop a TMDL plan (county-specific or combined) to ensure and track progress toward implementation.
- 2. A watershed wide implementation plan would identify opportunities to share costs for action items (e.g., monitoring, hiring consultants)
- 3. Creating a plan should enable future grant opportunities, which require a watershed-based implementation plan

Rationale for Action

- 1. A plan is needed to address the pollutant load reductions required by the TMDLs.
- 2. The multi-agency Patuxent Reservoirs Watershed Protection Group (PRWPG) is best positioned to facilitate further progress to achieve pollutant load reductions needed to meet the TMDLs.

Direction Requested from the Policy Board

1. Given the progress made to date and the barriers to future progress, should the PRWPG be involved in a coordinating role for TMDL implementation plan development for the Patuxent Reservoirs Watershed or should each County proceed independently to meet overall load reductions needed to meet the TMDLs?

Actions Requested from the Policy Board

- If the Policy Board decides that the PRWPG should actively coordinate TMDL
 implementation, the executives of the signatory agencies of the PRWPG Agreement are
 asked to make a commitment to cooperatively support the development of a TMDL
 Implementation Plan. This support would include committing the necessary technical staff
 resources and funding to develop an initial plan.
- 2. A complementary request is that each county focus outreach activities in the watershed to initiate actions to target phosphorus and sediment reductions. Montgomery County is already moving forward on this as part of their Permit-required Implementation Strategy to address urban stormwater load reductions.

Briefing Summary #3

Topic: Modifications to the Patuxent Reservoirs Watershed Protection Agreement

Summary of the Issue

During 2011, the TAC representative from Prince George's County Department of Environmental Resources (DER) brought up questions raised by their representative on the Patuxent Reservoirs Watershed Protection Group's (PRWPG) Policy Board about the need for meeting annually, as required through the Patuxent Reservoirs Watershed Protection Agreement (the Agreement). The annual PRWPG meetings have served mostly as a means to present a summary of the year's activities and the following year's work plan for achieving reservoir and watershed protection goals.

Further TAC discussion led to consideration of other possible amendments to the Agreement that would more accurately reflect how the PRWPG is currently functioning. Three modifications to the Agreement were discussed, and two modifications are being presented to the Policy Board for consideration.

1. Policy Board meetings will be held on an as needed basis to address substantive policy issues related to reservoir watershed protection, rather than holding these meetings on an annual basis, as currently required.

ADVANTAGES

- Eliminate meetings when no substantive issues are ready to be considered by the Policy Board
- A summary of accomplishments could be submitted to the Policy Board in letter or report form without the need for a mandatory annual meeting.

DISADVANTAGES

- Less frequent meetings of the Policy Board may isolate executive level participants or impede a timely response to reservoir water quality protection issues.
- Regular meetings provide a scheduled response from the Policy Board to TAC requests.
- 2. Remove all State agencies (DNR, MDA and MDE) from TAC membership. State agencies are not signatories to the Agreement. Representatives from DNR and MDE have ceased to attend or alternate members have not been identified after the retirement of previous designees.

ADVANTAGES

• TAC can invite State agency representatives to a particular meeting when their expertise is needed.

DISADVANTAGES

- These three State agencies will play significant roles in pollutant load reductions to meet the TMDLs for the reservoirs. DNR is the largest public landholder in the watershed; MDA (along with SCDs) will play key roles in non-point source nutrient reductions; and MDE regulates the TMDL process in Maryland.
- Including the State agencies as participating organizations establishes a mechanism by which State agencies will collaborate on Reservoir protection efforts.

Action Requested from the Policy Board

Should the Agreement be modified considering the advantages and disadvantages of each of the topics?





Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee Meeting

WSSC (8th floor) Room 8032 – Conference Room**
February 10, 2011
1:30 p.m. – 3:30 p.m.

AGENDA

<u>Call to Order, Opening Remarks, and Introductions</u>

Chair – Mark Symborski

Administrative Business

1. Approval of September, 2010 TAC Meeting Summary

2. Update on TAC reports

3. December Planning Meeting Overview

4. Departing Remarks and transfer of Chair to Howard Saltzman

(20 minutes)

Mark Symborski

Steve Nelson

Mark Symborski

Mark Symborski

On-Going & New Business

1. Work Program Updates All (15 minutes) a. Reservoir Monitoring Martin Chandler

b. Outreach Events – Watershed Festival, H2O Fest Sandy August, Kim Knox

2. TMDL Implementation

All (30 minutes)

- a. Discuss options for pursuing development of TMDL implementation
- b. Discuss and decide whether to form TMDL Implementation Work Group
 - Goals, tasks and members of this work group
- 3. Montgomery County Forest Conservation Act Forest Banking Katherine Nelson (15 min.)
 - a. Discuss proposal to modify banking criteria to promote water quality and forest creation.
 - b. Summary of Howard County's Forest Banking Criteria Susan Overstreet (5 min.)
- 4. Amendments to Priority Resources Charts
 - a. Decide if/when TAC should continue updating/modifying charts All (15 minutes)
- 5. Action Items to Accomplish Prior to our next meeting All (5 minutes)
- 6. Select next Meeting Topic(s) & Date (propose Tuesday, April 5, 2011) All (10 minutes)

Adjournment Chair – Howard Saltzman

** NOTE: this room is <u>not</u> our usual conference room; it is located on the I-95 side of the building. From the elevators, proceed in the <u>opposite direction of the receptionist area for the Acquisition Office</u>. This conference room is just around the corner from the elevators.



<u>Patuxent Reservoirs Watershed Protection Group</u> Technical Advisory Committee

Meeting Summary

February 10, 2011

Members Present

Martin Chandler (WSSC), Meo Curtis (MCDEP), Kristal McCormick (HSCD), Susan Overstreet (HCDPZ), Howard Saltzman (HCDPW), Mark Symborski (M-NCPPC), Debbie Weller (PGCDER)

Participants

Sandy August, (WSSC), Kim Knox (WSSC), Angela Morales (HCDPW), Katherine Nelson (M-NCPPC), Steve Nelson (WSSC)

The meeting was called to order at 1:35 pm by Chair Mark Symborski.

Administrative Business

- 1. No additions or clarifications were made to the September, 2010 meeting summary. The meeting summary was approved unanimously without modifications.
- 2. Steve Nelson provided an update for TAC-related reports
 - Both the 2009 Tech Supplement (including the water quality report for the reservoirs) and the 2010 Annual Report are posted on the WSSC's web site. WSSC recently modified its web site to recognize the environmental reports as a product of the Patuxent Reservoirs Watershed Protection Group.
 - 2010 Technical Supplement
 - ➤ It is being drafted, and Steve plans to email a draft to the TAC by end of February for review and comment.
 - > TAC members were asked to submit additional information for supplement (e.g., photos, GIS maps, etc.)
- 3. Mark Symborski discussed the outcomes from the meeting of the TAC leadership held on December 21, 2010 to plan TAC activities for 2011. He distributed the meeting summary.
 - Since TAC meetings are infrequent, Mark noted the importance of continued activity between meetings.
- 4. Mark then officially transferred the duties of chair to Howard Saltzman. Mark noted the challenges encountered in 2010 to real progress by the TAC and the future challenges (Chesapeake Bay TMDL, economic forecast, etc).

On-Going & New Business

- 1. Work Program Updates
 - a. Reservoir Monitoring update provided by Martin Chandler
 - Results from WSSC monitoring efforts will be included in the 2010 Technical Supplement.
 - The analysis has not yet been completed, but will be soon.
 - Planned additional water quality monitoring during winter months has been thwarted due to cold weather conditions and resulting frozen reservoirs. Routine, seasonal monitoring of the reservoirs will likely resume in March.

• WSSC's Lab recently switched reporting protocols resulting in few total phosphorus results (other than non-detect) because low results are below reporting limit. An investigation on how to improve this situation is underway.

A discussion continued about appropriate statistical techniques to use and how to determine compliance with TMDLs established for the reservoirs. Meo Curtis suggested that a good question for MDE to answer is who will be responsible for monitoring water quality conditions to assure implementation of the TMDLs.

- b. Outreach Events update provided by Sandy August and Kim Knox
 - There are several events planned for April 2011.
 - April 2 Trash clean-up efforts at several WSSC recreational locations and along reservoir shorelines to be coordinated with Patuxent Riverkeeper's clean-ups for the entire river basin. Much help is anticipated from nearby schools for these efforts.
 - April 9 IWLA, Wildlife Achievement Chapter's annual trash clean-up
 - ➤ April 9 H2O Fest location this year is at WSSC's Seneca WWTP in Germantown
 - > April 30 Watershed Festival (11 am start) located at WSSC's Supplee recreation area
 - o Festival will be similar to past festivals with fishing, canoe/kayak, craft exhibits and opportunities
 - o Bike ride planned for 9am
 - Kim Knox noted a possibility of WSSC's participating in the DEA National Drug Take Back Day on April 30, in conjunction with the Watershed Festival. Martin mentioned that there will likely be several logistical details to arrange prior to participating, including support from WSSC's Police Department.
 - Other upcoming volunteer opportunities include:
 - March 9 (9am-noon) Clean-up at WSSC's Azalea Gardens
 - ➤ March 11 @ 7pm Lauren Webster from the Patuxent Riverkeeper will train site leaders prior to the clean-up day in the hopes of providing additional motivation for volunteers. There will be an educational film to watch at WSSC. Debbie Weller suggested that photos be taken to demonstrate the large volume of trash collected, and she offered to provide a photo of another clean-up effort as an example.
 - ➤ March 20 tree planting and weed abatement at WSSC's Pigtail recreation area with IWLA.
 - March 26 cleanup along storm drain outfalls with PGDER
 - ➤ March 27 assist M-NCPPC with installing tree shelters
 - Howard suggested that outreach is one of the TMDL requirements worth exploring further
 because in the past it has been estimated to provide very large pollutant reductions based on
 modeling. He contended that outreach efforts are a good value for the cost, although it's likely
 that the models over-estimate load reduction effectiveness since it is difficult to determine
 actual response. Mark added that the Bay TMDL does not currently grant outreach credits.

2. TMDL Implementation

- a. Discuss options for pursuing development of TMDL implementation
 - Complicating factors making implementation difficult include: 1) current focus on Bay TMDL;
 TMDLs are being addressed piece-meal by different agencies, not holistically; and 3) no looming deadline (like Bay TMDL) driving <u>local</u> TMDL implementation except for MS4 permits that address urban storm water point sources.
 - From MDE's perspective, the reservoirs are viewed as beneficial, acting as nutrient & sediment sinks, which help the Bay TMDL by reducing nutrient and sediment loadings from the Patuxent Reservoirs Watershed.
 - Several Howard County agencies met recently to discuss how to address County TMDLs in the future especially the requirements in the draft NPDES MS4 permit .

- MDA is now working with the SCDs to derive agricultural reductions needs to meet TMDL requirements separately from other efforts.
- Determining the MS4 permit areas is important. For Montgomery County, its MS4 permit area
 within the Patuxent Reservoirs Watershed is limited to the urban portions of Damascus, Olney,
 and Burtonsville excluding agriculturally zoned land and public land owned by M-NCPPC and
 WSSC.
- Martin mentioned that it may be possible to extract agricultural and other non-point source reductions for the jurisdictions in the Patuxent Reservoirs Watershed from the WIP Phase 2 plans when they are completed.
- Both Susan Overstreet and Meo Curtis mentioned that neither Howard nor Montgomery
 County requested funding in this year's budget to support the SCD position planned to gather
 needed information prior to the creation of a TMDL Implementation Plan, as discussed during
 the 2010 Annual Policy Board Meeting.
- b. Discuss and decide whether to form TMDL Implementation Work Group
 - TAC members discussed how much work the TAC could generate on its own, considering that issues being addressed thus far are disconnected (MS4, agricultural efforts etc.).
 - Meo suggested collaboration would be a valuable contribution from the TAC as members share their experiences. Howard suggested that in the future Steve could distribute TMDL-related information and experiences to the TAC.
 - Howard commented that Howard County's has already received its draft MS4 permit, and that a meeting with MDE is planned for February 16 to discuss permit details and deadlines. Meo commented that from Montgomery County's experience it will be very difficult to create TMDL Implementation Plans for applicable watersheds within the one-year deadline; Montgomery County consultants have been working on the required plans since June 2009.
 - TAC members from County agencies also requested the attendance of a WSSC representative for a new work group forming to discuss pending WIP Phase 2 plans
 - Susan Overstreet commented that it may be premature to form a Patuxent Reservoirs TMDL work group now since Howard County has not yet received its final MS4 permit and begun developing TMDL implementation plans.
 - No vote was taken, but it was the general consensus <u>not</u> to form a TMDL Implementation Work Group at this time.
- 3. Montgomery County Forest Conservation Act Forest Banking
 - a. Discuss proposal to modify forest banking guidelines to promote water quality and forest creation
 - Katherine Nelson presented a series of maps showing the distribution of historical forest clearing and forest conservation easements over time.
 - Since M-NCPPC is considering modifying existing forest bank policies, Katherine is asking regional water quality groups if there is a benefit to modifying the existing policies to promote water quality.
 - It's unclear how riparian forest buffer (RFB) plantings would count toward meeting TMDLs. Debbie Weller added that the Chesapeake Bay model considers nutrient reductions when land cover changes from forested land.
 - TAC comments to Katherine's request
 - Meo recommended using the County's Green Infrastructure map, which focused on forest continuity as a goal to possibly help derive new policies.
 - Any future recommendations to this request can either be sent to Katherine directly or to Steve for forwarding.
 - Assuming changes will be made, M-NCPPC is looking for TAC to support (via a letter) of any proposed policy changes to Forest Banking that will likely result in water quality benefits.

- b. Summary of Howard County's Forest Banking Criteria
 - Susan briefed the TAC on certain aspects of Howard County's Forest Bank policies
 - The County uses the priorities for forest retention and planting in the Forest Conservation Act to determine priority areas for banks. Retention banks can only be placed on land with development potential.
 - ➤ Both counties allow the payment of a fee-in-lieu to meet forest conservation obligations. Howard County's funds are given to the Dept. of Recreation and Parks to plant forest on public and private properties.
- 4. Amendments to Priority Resources Charts
 - a. Decide if/when TAC should continue updating/modifying charts
 - TAC members decided to progress through the charts via emails to/from Steve between meetings and then finalize during TAC meetings. The TAC will start with Reservoir & Water Supply and Public Awareness & Stewardship Priority Resource charts because some work began last year on these charts.
 - Meo asked if the Public Awareness & Stewardship priority resource chart included follow up/verification of project implementation, and suggested that it be added to determine program effectiveness.
- 5. Action Items to accomplish prior to the next TAC meeting
 - Action Item 1: Steve will distribute selected Priority Resources Charts for TAC review and suggestions.
 - Action Item 2: TAC members will send Forest Banking policy suggestions directly to Katherine or through Steve.
 - Action Item 3: TAC members will send estimates that quantify effectiveness of outreach efforts to Steve for distribution.
 - Action Item 4: Steve will forward questions to Ken Shanks at MDE about who is responsible for monitoring water quality conditions to assure implementation of the TMDLs.
- 6. Next Meeting Date Tuesday, April 5, 2011

Suggested Topics for April Meeting;

- a. Meo offered to update TAC on TMDL Implementation Plan for urban storm water point sources in the Montgomery County jurisdiction within the Patuxent Reservoirs Watershed
- b. Review of Priority Resource chart updates distributed between meetings
- c. Outreach update (including WSSC Annual Family Campfire)
- d. Katherine offered to provide TAC with draft of Forest Banking policies
- e. Katherine offered to update TAC on tree planting along the Hawlings River within the Rachel Carson Conservation Park

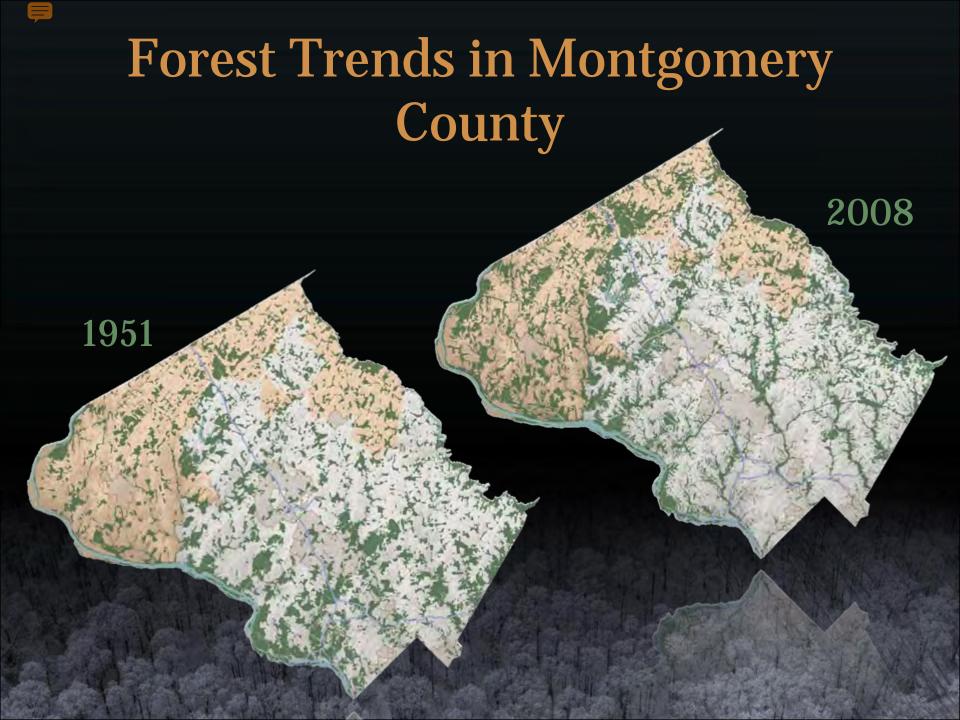
Adjournment

The meeting was adjourned at 3:45 pm by Chair Howard Saltzman.

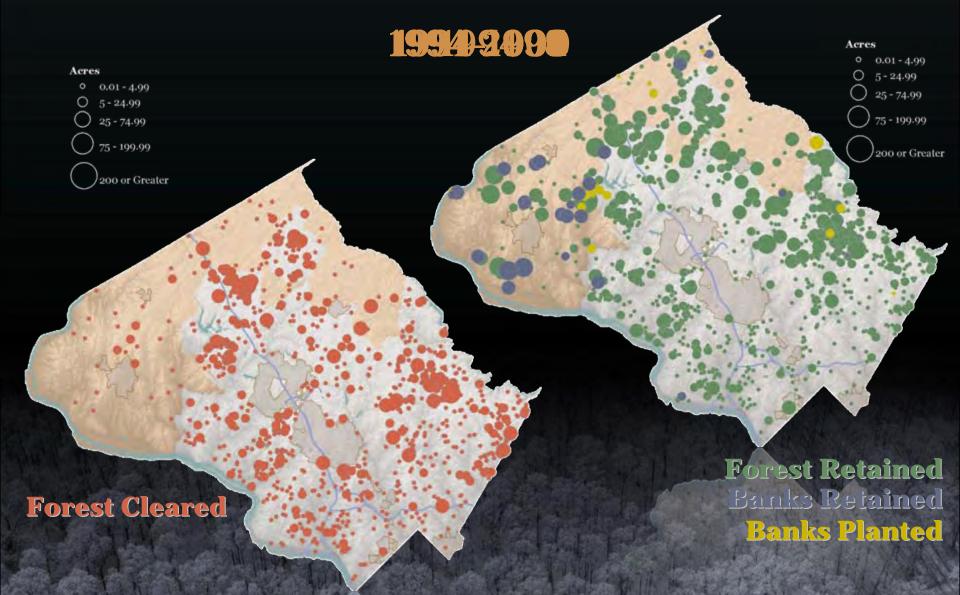
This summary was prepared by Steve Nelson.

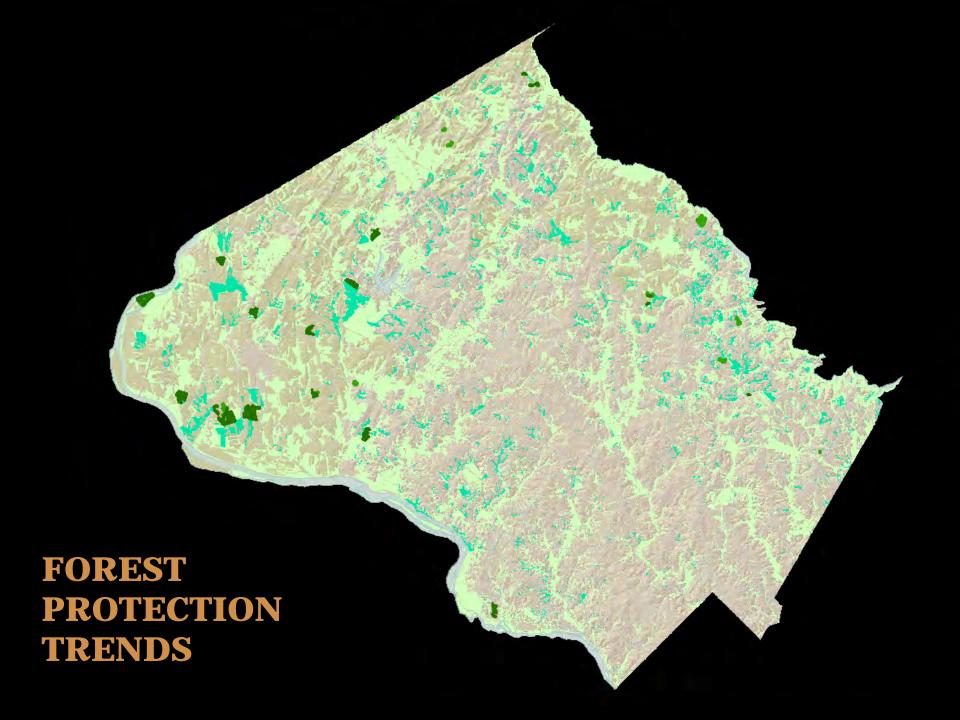
Forest Conservation Bank Policies

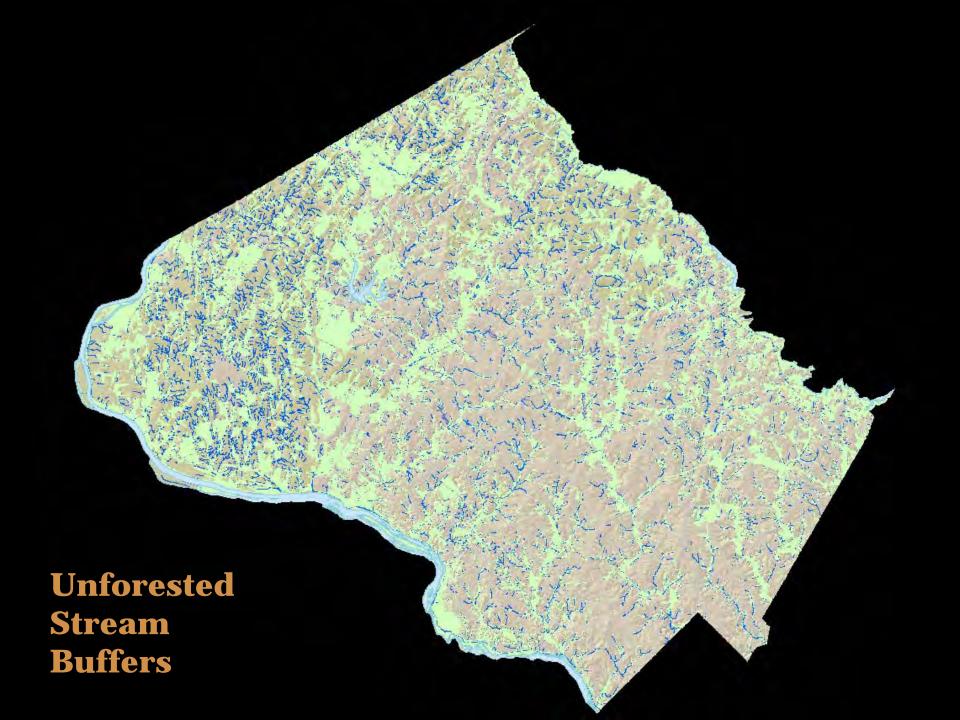




Forest Conservation Law











Remnants of Subdivision



<u>Patuxent Reservoirs Watershed Protection Group</u> Technical Advisory Committee Meeting

WSSC (8th floor) Room 8032 – Conference Room** April 5, 2011 1:30 p.m. – 3:30 p.m.

AGENDA

(10 minutes)

Call to Order, Opening Remarks, and Introductions

Chair – Howard Saltzman

<u>Administrative Business</u>

1. Approval of February, 2011 TAC meeting summary Howard Saltzman

2. Action Items accomplished between meetings Steve Nelson

On-Going & New Business

1. Work Program Updates

a. Upcoming Outreach Events Sandy August (10 min.)

• Watershed Day

• H2O Fest

• Annual Family Campfire

2. Land management within Patuxent River State Park Kim Lloyd, Park Mgr (20 min.)

3. Amendments to Priority Resources Charts

a. Public Awareness & Stewardshipb. Reservoir & Water SupplyAll (20 minutes)All (20 minutes)

4. Action Items to accomplish prior to our next meeting All (5 minutes)

5. Select next meeting topic(s) & date (Tuesday, June 28 or July 12) All (5 minutes)

Adjournment Howard Saltzman

** NOTE: This conference room is just around the corner from the elevators. From the elevators, proceed in the <u>opposite direction of the receptionist area for the Acquisition Office</u>.



Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee

Meeting Summary

April 5, 2011

Members Present

Martin Chandler (WSSC), Ken Clare (PGCDH), Kristal McCormick (HSCD), Susan Overstreet (HCDPZ), David Plummer (MSCD), Mark Symborski (M-NCPPC), Debbie Weller (PGCDER)

Participants

Sandy August (WSSC), Kim Lloyd (MD DNR), Kim Knox (WSSC), Angela Morales (HCDPW), Steve Nelson (WSSC)

The meeting was called to order at 1:40 pm by Vice Chair Debbie Weller.

Administrative Business

- 1. No additions or clarifications were made to the February 2011 meeting summary; consequently, the meeting summary was approved unanimously without modifications.
- 2. Steve Nelson provided an update to the Action Items from the February 2011 meeting.

 Action Item 1: The Public Awareness & Stewardship and the Reservoir/Water Supply Priority Resources Charts had been sent to the TAC for comment prior to the April meeting.

Action Item 2: TAC members sent suggestions to Katherine Nelson regarding possible modifications to Forest Conservation Banking policies.

Action Item 3: TAC members sent estimates that quantify effectiveness of outreach efforts to Steve, which were distributed to the TAC.

Action Item 4: A list of potential questions for Ken Shanks at MDE that had been distributed to the TAC for comment has not been sent to MDE.

On-Going & New Business

- Work Program Updates
 - a. Outreach Events update provided by Sandy August and Kim Knox
 - Preparation continues for the outreach events planned for April 2011.
 - Sandy distributed flyers advertising Earth Month events to TAC members
 - Sandy noted from recent trash clean-up efforts at several WSSC recreational locations that locations cleared of trash on a regular basis seemed to have less trash accumulation.
 - Patuxent Reservoirs Watershed Day is planned for April 30th; many different organizations have agreed to participate
 - H2O Fest Sandy noted that more advertising is paying off
 - > 33 vendors have agreed to participate
 - Oyster reef ball demonstration is planned
 - Annual Family Campfire
 - ➤ Kim expressed concern about a trend of declining annual attendance and the decision to choose another location for this event in the hopes of increasing attendance. One suggestion for an alternate location was WSSC's Supplee Lane area (in west Laurel).

- ➤ Kim asked the TAC member agencies to consider becoming more involved in the future. David Plummer commented that it would be difficult to promise assistance on a regular basis considering recent staff and budgets limitations plus other agencies likely do not have staff dedicated to outreach.
- ➤ TAC discussed the following options to improve attendance:
 - o Kim Lloyd suggested that the DNR Scales and Tales program could be added
 - o Martin Chandler suggested alternating between two locations (Brighton Dam and Supplee) for greater outreach
 - o Holding the event on Saturday and having an earlier start may improve attendance
 - o Save the bonfire lighting as the special culminating event of the Campfire rather than an ongoing attraction, which may provide more opportunity for education and outreach while the attendees assemble at twilight
 - o Offer community service hours to increase involvement
- Next steps:
 - 1. Continue discussion internally at WSSC
 - 2. Steve will update TAC on progress
 - 3. Verify that other activities where TAC agencies are already committed do not conflict with the Family Campfire.
- b. Kim Knox introduced another topic to the TAC. She asked for TAC support for an upcoming grant opportunity (National Fish & Wildlife Foundation Small Watershed Restoration grant) to fund a stream buffer planting along the Hawlings River within the Rachel Carson Conservation Park.
 - Grant application due date is June 3, 2011.
 - Mark Symborski mentioned that the next tree planting will not occur this spring due to contractor delays; it will likely occur in the fall of 2011.
 - Susan Overstreet commented that the TAC has supported similar grant ideas in the past, and that an important question is whether M-NCPPC will have sufficient staff to support a grant if one is awarded.

2. Land management within Patuxent River State Park.

Kim Lloyd currently serves as the Park Manager for two other parks in addition to Patuxent River State Park (Seneca Creek and Monocacy State Parks).

Kim explained to the TAC various aspects of DNR park management:

- Patuxent River State Park encompasses about 7,000 acres
- DNR manages 12 agricultural leases within the park
 - > 10 cropland leases and 2 grazing leases (total about 1,000 acres); grazing land is decreasing each year
 - ➤ DNR desires leases for smaller acreage, especially for grazing (41 acres total)
 - Marginal agricultural land is now targeted for tree plantings in the future
 - Terms of lease term have been reduced to 3 years (from 5) for more flexibility
 - Conservation Reservoir Enhancement Program (CREP) plantings within the park (largest planting near RT 97)
 - ➤ ICC mitigation planting locations include: Haviland Mill, Pinebark Way, and Hipsley Mill (in Montgomery County)
 - No sewage sludge (biosolids) application within park, but manure application is permitted
- Existing park management plan is outdated with no plans to update
- Management activities occur mainly during winter months (trash removal, etc.)
- Park contains many areas designated as **Wildlands** for horseback riding and hiking, but not for mountain biking
- Deer management
 - All but few lands are open to hunting; crop damage permits are available to farmers

- > Seasons include bow and gun season
- In 2009, 279 deer were harvested, but crop damage from deer population persists
- > No report is available to determine effectiveness of hunting pressure on deer population and forest condition
- No plan in place for managing invasive weeds; some meadow habitat exists with limited spraying (mostly on Ag leases); MDA mainly sprays
- DNR Natural Filters Program a state-wide land audit to achieve Governor O'Malley's tree planting commitment an audit has been completed for the park and recommendations were made, but no funds are available
- Recently acquired a 3-acre parcel (Zern property); a database exists of available land adjacent to park land for purchase (funding permitting)
- Seven historic structures have 'curatorships' (lifetime lease for life of person who is restoring property); MD Historical Society assists with making decisions about these structures
- Two rental houses
- Two long-term leases
 - ➤ Hipsley Mill Rd a small commercial lease used for business purpose
 - ➤ Long Corner Rd farm for both grazing animals and crop production
- CHALLENGES for Park Management
 - 1. Encroachment onto park land
 - o Recent case of illegal timber harvesting
 - o Recent case of pasturing animals on park land with direct access to Patuxent River
 - David Plummer suggested that Ag encroachments may provide opportunity for SCDs to contact adjacent landowners for installation of BMPs
 - 2. Getting ready to map trail coverage
 - o Many horse trails exist, but no map exists of current trail system
 - o DNR only maintains one trail. Maintenance of the network of horse trails is delegated to TROT
 - Trails are closed during hunting season (trails re-open in March)

3. Amendments to Priority Resources Charts

- a. Public Awareness & Stewardship
 - With the limited time remaining, discussion started with a review of Kim Knox's comments and concluded with all but the last comment from Martin Chandler. Refer to attached chart for detailed corrections.
 - Qualified the implementation item related to Green Schools
 - o Original: Continue and expand Green Schools Mentoring Partnership
 - o Proposed: Continue and support expansion of Green Schools Mentoring Partnership in coordination with MD Green Schools program as directed by MAEOE
 - Eliminated the suggestion for a new implementation item to: Create a rating/grading system for schools to encourage and increase participation in environmental and watershed projects
 - TAC members asked Kim Knox to provide the link to the *Friends of Brighton Dam* Facebook page currently used by WSSC to notify interested persons of upcoming events.

4. Action Items to accomplish prior to the next TAC meeting

- Action Item 1: Steve agreed to follow up with questions raised about monitoring with Ken Shanks at MDE
- Action Item 2: Steve will research how TAC support was given for grant applications in the past.
- Action Item 3: Once a draft is completed, Kim Knox will forward a draft of the NFWF grant application to Steve for distribution to the TAC for consideration prior to soliciting formal TAC support
- Action Item 4: Steve will update TAC on internal WSSC discussion regarding Family Campfire event

5. Next Meeting Date and Topics – to be determined

<u>Adjournment</u> The meeting was adjourned at 3:50 pm by Debbie Weller

This summary was prepared by Steve Nelson.



Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee Meeting

WSSC (8th floor) Room 8032 – Conference Room**
July 20, 2011
1:30 p.m. – 3:30 p.m.

AGENDA

(15 minutes)

Call to Order, Opening Remarks, and Introductions

Chair – Howard Saltzman

Administrative Business

1. Approval of April, 2011 TAC Meeting Summary Howard

2. Annual Report and Technical Supplement Steve Nelson

3. Action Items accomplished between meetings Steve

4. State representation as members of TAC Steve

5. Our Partnership's 15th Year Anniversary! All

On-Going & New Business

1. Amend Public Awareness & Stewardship Resources Chart All (30 minutes)

2. Recent watershed development trends in Montgomery County Katherine Nelson (45 min)

3. Funding of Patuxent Ag Cost-Share Program for HSCD Kristal McCormick (10 min)

4. Tree Plantings resulting from WSSC Consent Decree Martin Chandler (10 min)

5. Action Items to accomplish prior to our next meeting All (5 minutes)

6. Select next meeting topic(s) (Tuesday, September 13, 2011)

All (5 minutes)

Adjournment Howard

** NOTE: This conference room is just around the corner from the elevators. From the elevators, proceed in the <u>opposite direction of the receptionist area for the Acquisition Office</u>.



<u>Patuxent Reservoirs Watershed Protection Group</u> Technical Advisory Committee

Meeting Summary

July 20, 2011

Members Present

Martin Chandler (WSSC), Ken Clare (PGCDH), Meo Curtis (MCDEP), Kristal McCormick (HSCD), Bert Nixon (HCHD), Susan Overstreet (HCDPZ), Howard Saltzman (HCDPW), Mark Symborski (M-NCPPC), Debbie Weller (PGCDER)

Participants

Dr. Cleve Brown, Patuxent Watershed Protective Association, Inc., (PWPA), Kim Knox (WSSC), Angela Morales (HCDPW), Katherine Nelson (M-NCPPC), Steve Nelson (WSSC), Jim Putman (PWPA), Alan Soukup (MCDEP),

The meeting was called to order at 1:35 pm by Chair Howard Saltzman. The introductions included two members from the PWPA, who were invited to listen to Katherine Nelson's presentation.

Administrative Business

- 1. No additions or clarifications were made to the April 2011 meeting summary; consequently, the meeting summary was approved unanimously without modifications.
- 2. Steve Nelson provided an update to the 2011 Annual Report and the 2010 Technical Supplement. Requests for TAC member contributions to the 2011 report will be sent sometime after the July meeting. The final version of the 2010 Technical Supplement will soon be posted to the WSSC web site.
- 3. Steve Nelson provided an update to the Action Items from the April 2011 meeting. Action Item 1: Follow up with TMDL monitoring questions with Ken Shanks at MDE. Steve contacted Ken Shanks by phone to ask questions concerning TMDL compliance monitoring in the future. Ken suggested that Steve send an email specifying the purpose of the questions for clarification.

Action Item 2: Research how TAC support was given for grant applications in the past. No action taken, but it is important to research for future grant applications.

Action Item 3: NFWF grant application to be distributed to the TAC for consideration prior to soliciting formal TAC support. Application deadline for the NFWF grant has passed. TAC support was unnecessary because TAC was not a participant

Action Item 4: Update TAC on internal WSSC discussion regarding Family Campfire event. Kim Knox commented that the recreation area near the Duckett Dam was chosen for this year's event to be held on Saturday October 15 beginning at 4pm.

- 4. Steve updated the TAC concerning membership from the State agencies. He noted the recent absence of representatives from MDE and DNR on the TAC.
 - Ken Shanks from MDE's TMDL Implementation Group will continue to be available via conference call or follow-up questions as needed.
 - John Grace from MDE's Water Supply Program stated that someone from that program would hopefully begin to attend regularly.
 - Kim Lloyd, Park Manager for the Patuxent River State Park, would be a very good choice from DNR, although it may be best to invite Kim when needed.
 - Dwight Dotterer continues to represent MDA on the TAC.
 - Meo Curtis commented that Stan Wong (long-time TAC member) recently retired from Montgomery County Department of Permitting Services. She indicated that no one from this TAC member agency would likely participate in the TAC anytime soon.
- 5. On behalf of the Izaak Walton League of America (IWLA), Meo presented the IWLA Honor Roll Award for 2011 to Kim Knox in recognition of her accomplishments recruiting many volunteers to assist with efforts that included tree plantings, invasive weed removal, and trash removal within the Patuxent Reservoirs Watershed.

On-Going & New Business

1. Amend Public Awareness & Stewardship Resources Chart

It was decided to postpone this item to the end of the meeting because of the guests from the PWPA, but there was not enough time to address this item during the meeting.

2. Recent watershed development trends in Montgomery County

Katherine Nelson presented issues of concern for recent development trends in rural portions of Montgomery County including the Patuxent Reservoirs Watershed. She introduced three issues to the TAC for discussion: 1) extension of sewer services for private institutional facilities (PIFs), 2) upcoming master plan amendments that would affect land in the Burtonsville area, and 3) a landscape contractor dumping within the stream valley close to the Rocky Gorge Reservoir.

Issue 1: Extending Sewer Service to private institutional facilities (PIFs)

In spite of historical protection efforts (e.g. rural land use zoning, down-zoning, master plan amendments, environmental guidelines, expanded stream buffers, and restricting sewer service extensions) there remains a loophole where several PIFs have been granted sewer service extensions with potentially several more properties in close proximity to these extensions near Burtonsville and Damascus. These extensions of sewer service have resulted in impervious levels well beyond the normal 10% guideline for additional development within the Patuxent Reservoirs watershed with the potential for additional impacts.

Alan Soukup from Montgomery County's Dept. of Environmental Protection attended the meeting and provided the TAC with an update on this issue. Alan commented that adjacent property owners who also desire to connect to the sewer extensions must first receive approval from different county agencies and the County Council. Katherine added that once the extension has been granted, property owners can then apply for a building permit thus avoiding approvals and extensive agency reviews. Meo and Howard questioned why these

developments would not be subject to all environmental regulations including stormwater management regulations.

Issue 2: Upcoming master plan amendments that would affect land in the Burtonsville area

Katherine also mentioned that M-NCPPC will be reviewing Master Plan amendments in the Fairland and Burtonsville areas, which would provide an opportunity for the TAC to comment on relevant issues. Alan added that he was unsure when the 10- year water and sewer plan will be available for review and comment.

Katherine asked generally how the TAC should be involved with these types of issues and specifically if the TAC or Policy Board would wish to provide any comments. These questions generated discussion as to the role of the TAC and Policy Board concerning County land use development.

Issue 3: Expansion of an existing dump encroaching further into a stream valley draining to the Rocky Gorge Reservoir

A local landscaping business near Burtonsville has been increasing its existing dump area further encroaching into a stream valley in the Rocky Gorge watershed. A citation has been issued for this activity. This business is not connected to the public sewer system, and it has submitted an application for a special exception.

It was generally agreed upon that MDE may need to be informed, but this is first a local government responsibility. Meo commented that she would contact members of Montgomery County's Department of Environmental Protection to determine how to proceed.

This presentation generated much discussion including: 1) proper roles of both the TAC and Policy Board responding to these issues, 2) deciding whether concerns raised are technical in nature or would these concerns elicit only recommendations by the Policy Board, and 3) how to involve and inform the Policy Board for these types of concerns.

- Katherine suggested that a letter from the TAC would be needed to send to the Policy Board members.
- Howard commented that the letter should include the link between <u>not</u> resolving these issues and potential detriments to water quality considering TMDLs for the reservoirs. He added that the letter should not comment on the County's Master Plan, but provide technical support showing that these issues left unresolved would contradict other commitments (e.g., TMDLs).
- Debbie Weller stated that the TAC should not be commenting directly on other county's policies
- Susan Overstreet recommended that this letter should be broadened to include all three counties in the watershed.
- Howard concluded the discussion by recommending that the TAC continue this discussion via e-mail and conference calls if needed. He added that next steps should include: drafting a letter summarizing concerns and potential solutions, identifying the problem, and deciding when and how to present to Policy Board (if appropriate for TAC).

3. Funding of Patuxent Ag Cost-Share Program for HSCD

Kristal McCormick informed the TAC that all funds allocated to the HSCD for the Patuxent Reservoir's Agriculture Cost-Share Program have been spent. HSCD has had success using this funding source to assist small equine operations, which do not qualify for State or federal programs. Historically, funds have been spent to assist with the installation of selected BMPs, to support a Planner position, and to conduct outreach/education events.

Due to its success, HSCD would like to once again fund this cost-share program. Howard suggested that this request be added to this year's annual meeting of the Policy Board. Meo commented that, based on last year's annual meeting, requesting funds will likely be difficult.

4. Tree Plantings resulting from WSSC Consent Decree

Martin Chandler provided a final summary of the Supplemental Environmental Project (SEP) component of WSSC's Consent Decree for SSOs. WSSC was ordered to purchase land and conservation easements within the Patuxent Reservoirs Watershed to help protect source water quality. Martin's summary included a presentation showing the location of each property and photos of improved conditions. WSSC has improved the three parcels of land purchased by removing debris and planting five acres of large size trees for a total cost of about \$77,000.

5. Action Items to accomplish prior to the next TAC meeting

Action Item 1: Mark will draft a letter summarizing concerns regarding development trends in Montgomery County to continue the discussion via emails and conference call.

Action Item 2: Steve will research how TAC support was given for grant applications in the past in order to prepare for future grant opportunities.

Action Item 3: Steve will e-mail TAC final version of the Public Awareness Priority Resource Chart for final revisions.

Action Item 4: To continue progress towards revising the Priority Resource Charts, Steve will schedule a conference call with those interested in each chart to review/comment on each chart.

Action Item 5: Meo will contact the county DEP personnel to determine how to proceed with investigating dumping debris in stream valley.

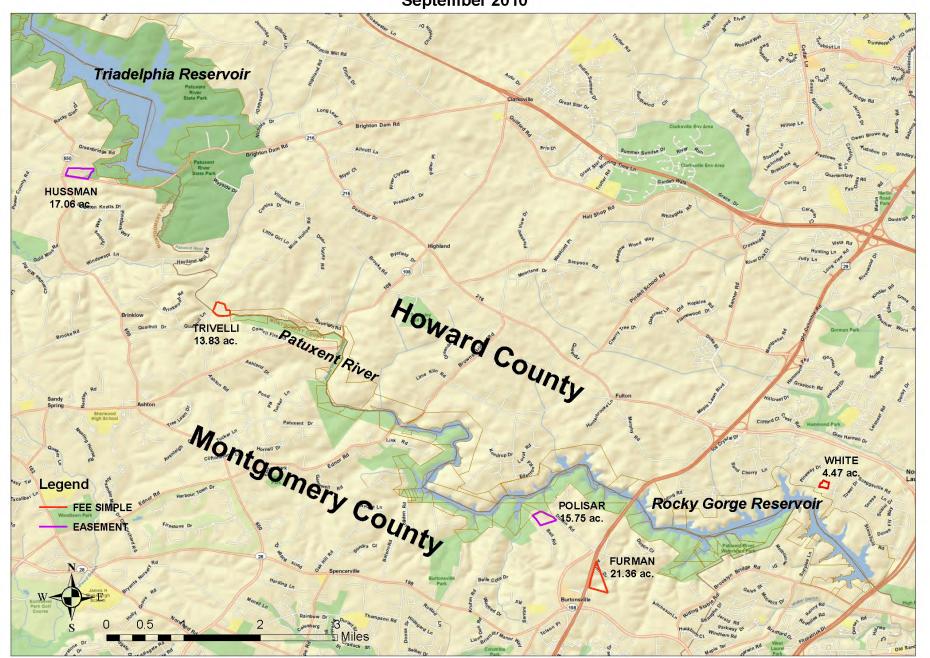
6. Next Meeting Date and Topics – to be determined via on-line survey

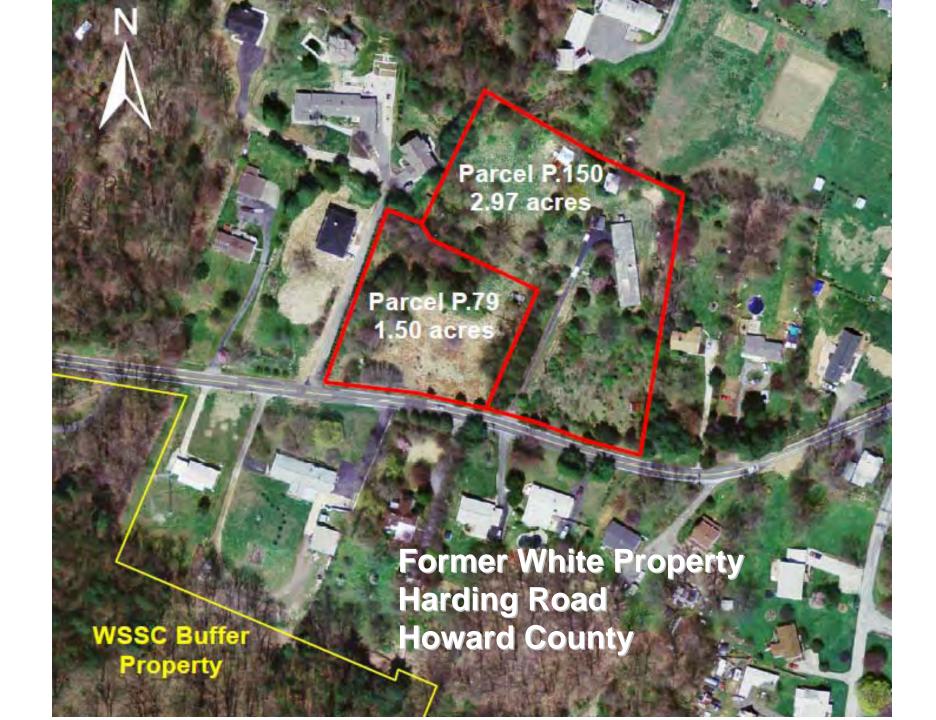
Adjournment

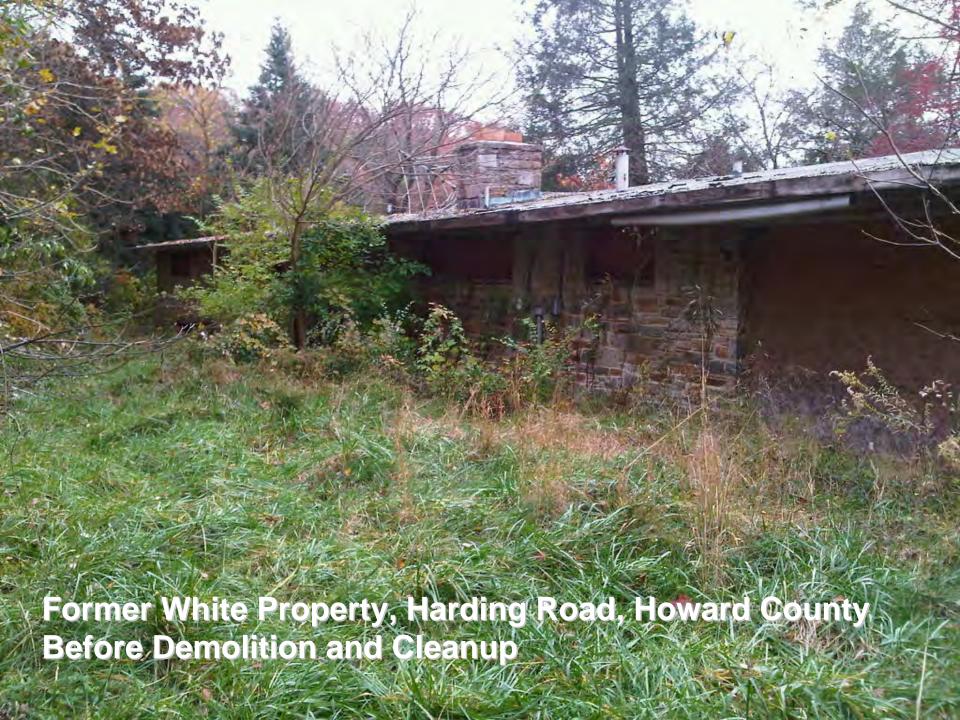
Howard adjourned the meeting at 3:45 pm.

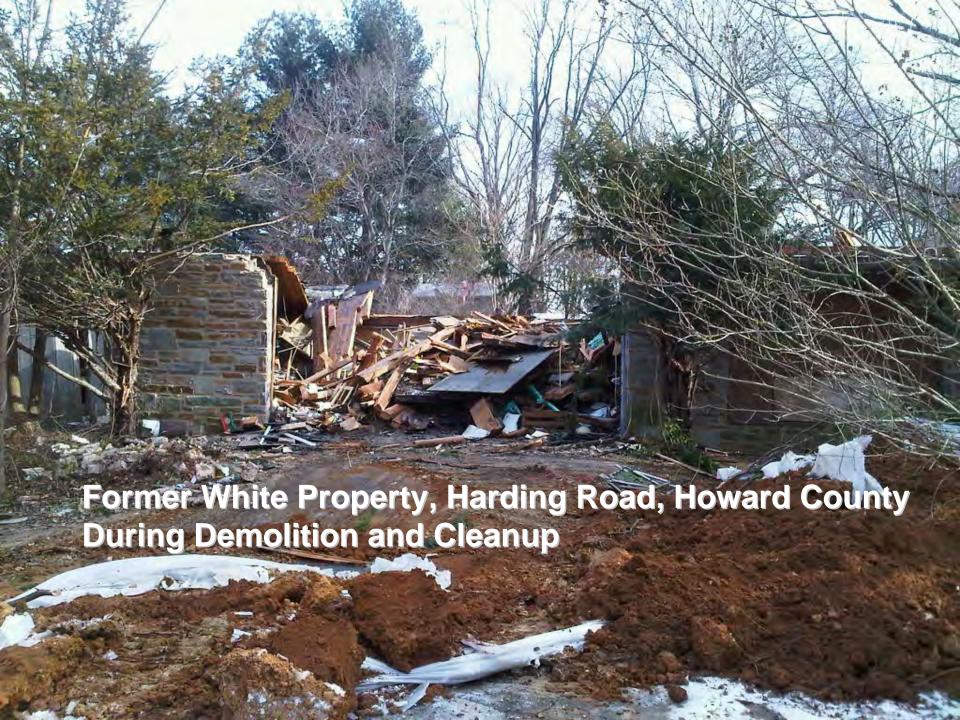
This summary was prepared by Steve Nelson.

PROPERTIES AND CONSERVATION EASEMENTS ACQUIRED BY WSSC FOR PATUXENT RESERVOIRS WATER QUALITY PROTECTION September 2010











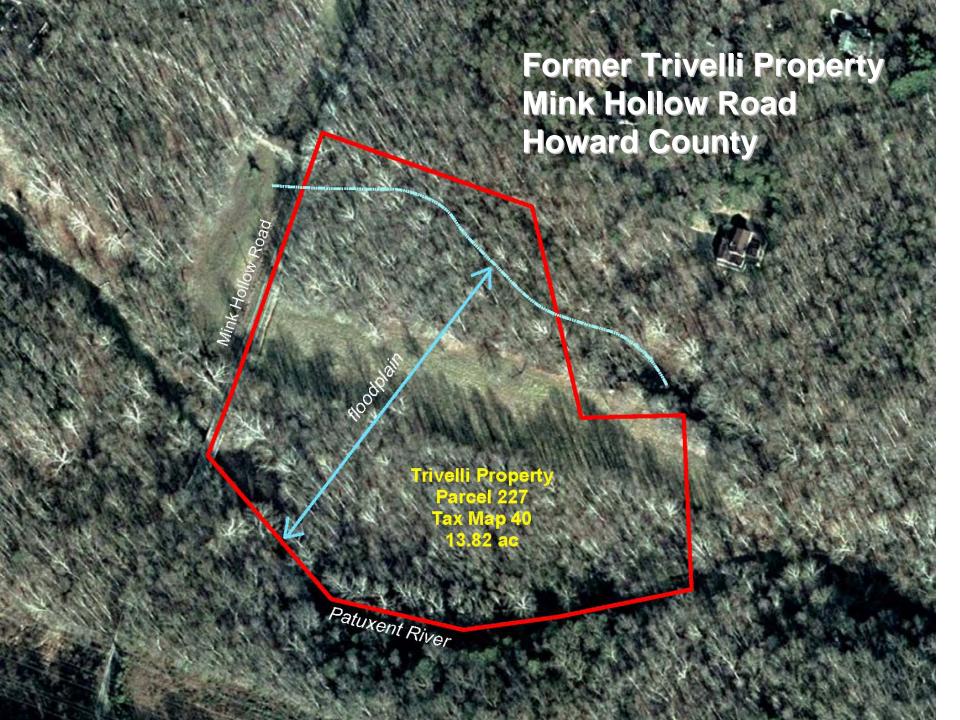














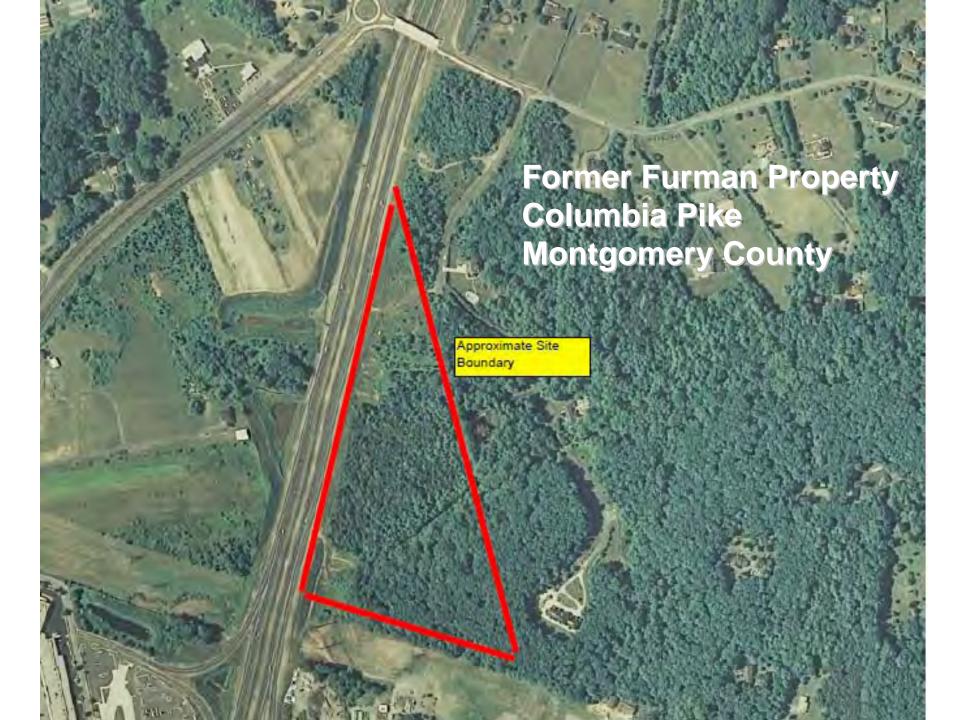














Former Furman Property, Columbia Pike, Montgomery County







2. Tires Dumped on North Section of Site

3. Refrigerator Dumped at Northern Section of Site

Facts and Figures

Former White Property, Harding Road

- Approx. 2 acres planted on 4.5 acre property
- Approx. 140 trees planted
- \$16,575

Former Trivelli Property, Mink Hollow Road

- Approx. 3 acres planted on 13.8 acre property
- Approx. 210 trees planted
- \$24,450

Tree Species Include

 Red maple, honey locust, black gum, river birch, London planetree, red oak, willow oak, and eastern redbud

Facts and Figures

Former White Property, Harding Road

- Secure gate to prevent dumping -- \$2,000
- Underground storage tank and contaminated soil removal -- \$6,300
- Demolition and trash removal -- \$27,700

Former Furman Property, Columbia Pike

Trash removal – \$\$ included with White contract



<u>Patuxent Reservoirs Watershed Protection Group</u> Technical Advisory Committee Meeting

WSSC Chesapeake Room (Room 6104) September 22, 2011 1:30 p.m. – 4:00 p.m.

AGENDA

Call To Order/Opening RemarksChair – Howard SaltzmanAdministrative Business(15 minutes)1. Approval of July 2011 TAC Meeting SummaryHoward2. Annual Report – Status & Schedule

 • Usefulness of Work Plan Expenditures ChartSteve Nelson3. Annual Meeting – Preparation & Meeting Date

 • Discuss need for this year's annual meetingAll4. Action Items accomplished between meetingsSteve

On-Going & New Business

Consider Amendments to PRPG Original Agreement

 Remove language requiring annual meeting of the Policy Board

 TAC interactions with Policy Board

 Agenda for 2011 Policy Board Meeting
 Public Awareness & Stewardship Resources Chart
 All (15 minutes)

 Action Items to accomplish prior to our next meeting
 All (5 minutes)

Work Program Updates

<u>Adjournment</u> Howard



Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee

Meeting Summary

September 22, 2011

Members Present

Martin Chandler (WSSC), Bert Nixon (HCHD), Susan Overstreet (HCDPZ), David Plummer (MSCD), Howard Saltzman (HCDPW), Mark Symborski (M-NCPPC), Debbie Weller (PGCDER)

Participants

Kim Knox (WSSC), Jerry Maldonado (PGCDER), Angela Morales (HCDPW), Steve Nelson (WSSC)

The meeting was called to order at 1:50 pm by Chair Howard Saltzman.

Administrative Business

- 1. Two additions were made to the July 2011 meeting summary after TAC members received the final draft. There was no stated opposition to the meeting summary including the two additions.
- 2. Steve Nelson announced that the schedule for this year's annual report will have to be delayed because only about one-half of the contributions have been received.
 - Steve asked members for their opinion about the usefulness of the Work Plan Expenditures Table included at the end of the annual report. It was pointed out that the Policy Board members do not use the numbers from this table to develop future funding requests. After some discussion, for this year's draft report, this table will be modified by: 1) highlighting new funding requests (if any) at the bottom of the table, and 2) excluding future cost estimates while still including the effort as a line item noting that funding will be requested.
- 3. The majority of the meeting centered on discussing the need to have annual Policy Board meetings along with other related agenda items including: 1) how the TAC interacts with the Policy Board and 2) whether to amend the PRPG Original Agreement (the Agreement) to eliminate the requirement to meet annually (while retaining the option to meet as needed).
 - The Agreement states (Article IV B. Modification or Amendment of the Agreement) that the Policy Board will consider amendments to the Agreement at its annual meeting.
 - TAC members agreed that the annual meetings have historically not addressed policy related issues and have served more as a summary of the year's progress. The recap of the year's progress could be done through a letter or other communication. Thus, it was recommended that the Policy Board meet only when there were substantive policy issues.
 - Howard noted two possibilities for policy related issues at a future Policy Board meeting: 1)
 the TAC's approach of addressing the Bay TMDL first and then seeing how this will help
 implement the Reservoirs TMDL, given limited resources, especially considering the recent
 letter from WSSC's General Manager to the County Executives, expressing disappointment

with the lack of progress, and 2) adding funds to the Patuxent Reservoirs Watershed Agriculture Cost-Share Program for Howard SCD.

- Several important questions were raised such as:
 - o Is there another method of periodically notifying the Policy Board other than inviting them to an annual meeting?
 - o By not meeting annually, would the PRWPG lose momentum?
 - o How can the TAC keep the Policy Board engaged?
- Susan explained a few differences between the Patuxent and Baltimore Reservoirs Protection Groups. Baltimore's Reservoirs Agreement contains provisions which allow their Reservoirs Technical Group to evaluate County policies and plans to determine if potential conflicts exist with reservoir protection goals. [Note: these evaluations are advisory in nature according to Baltimore Reservoir Watershed Management Agreement, 2005.] It was recognized that the Patuxent Agreement does <u>not</u> have similar language; consequently, the TAC has not actively provided comments on participating County polices or plans.
- Howard suggested that each TAC member agency could ask their supervisor and/or PB member if they would support a strengthened Agreement for the TAC to evaluate County policies and plans for conflicts with reservoir protection. There was general agreement from the other counties that this request would not be supported. However, there was agreement that Howard County would inquire about making general policy assessments and recommendations. Mark Symborski added that any evaluation must consider the entire watershed, not focusing on any one county. Jerry Maldonado and Debbie Weller indicated that Prince George's would not be inclined to comment on other County's policies.
- David Plummer suggested that one solution would be to solicit PB input into this discussion
 while informing them that the TAC recommends that the PB not meet until the Agreement
 has been modified.
- At the conclusion of this discussion (with insufficient members present for a consensus):
 - Howard County will contact their supervisor and/or PB member to determine if they
 would support the TAC discussing watershed-wide policies, plans, etc. that may conflict
 with reservoir protection goals.
 - Howard suggested that since modifying the agreement will likely be an arduous task, another version of the proposed changes to the Agreement be sent to the TAC focusing on the essential changes such as eliminating the requirement for an annual meeting.
- 4. Steve provided an update to action items from the last meeting Action Item 1: Mark will draft a letter summarizing concerns regarding development trends in Montgomery County to continue the discussion via emails and conference call. A draft letter was sent to the TAC for discussion.

Action Item 2: Steve will research how TAC support was given for grant applications in the past in order to prepare for future grant opportunities. No action was taken.

Action Item 3: Steve will e-mail TAC final version of the Public Awareness Priority Resource Chart for final revisions. The chart was sent to the TAC.

Action Item 4: To continue progress towards revising the Priority Resource Charts, Steve will schedule a conference call with those interested in each chart to review/comment on each chart. No conference call occurred.

Action Item 5: Meo will contact the county DEP personnel to determine how to proceed with investigating dumping debris in stream valley. No update was available.

On-Going & New Business

- 1. Steve introduced the Public Awareness & Stewardship Resources Chart including all revisions for review.
 - Jerry asked how the implementation items are being measured for effectiveness,
 - Kim Knox asked which agency would conduct the proposed public outreach survey.
 - Most of the proposed additions will be consolidated into three main categories: public outreach, schools, and media coverage.
 - Martin Chandler recommended that an 'almost final' version of this chart be sent with a deadline for response prior to the next TAC meeting.
 - Susan suggested that a second resource chart could also be sent to the TAC for review.
- 2. Action Items to accomplish prior to the next TAC meeting

Action Item 1: Steve will send to the TAC another version of the agreement with modifications focused on removing the requirement for an annual Policy Board meeting, eliminating State agency membership to the TAC, and extending the length of service for the Policy Board chair. Steve will also send to the TAC a revised draft of the Amendment document reflecting these changes.

Action Item 2: Considering our current Agreement language regarding TAC functions (Article III.B), Steve will send the TAC a survey of two questions asking 1) would it be appropriate for the TAC to discuss and evaluate general watershed-wide issues (e.g., extending sewer service beyond current envelope within the entire Patuxent Reservoirs Watershed), and 2) if the TAC recognizes a potential conflict with reservoir watershed protection goals, would it be appropriate to notify the Policy Board.

Action Item 3: Steve will e-mail the TAC an *almost* final version of the Public Awareness Priority Resource Chart for final revisions.

Action Item 4: To continue progress towards revising the Priority Resource Charts, Steve will email a first draft of the Reservoir-Water Supply Priority Resource Chart for TAC review.

Work Program Updates

- David announced that a second tree planting is being planned for the beginning of November 2011 at the Oaks Landfill; he is working with the local schools to select a date. He recommended that the PB members be invited to attend.
- Kim announced several upcoming events (see attached flyers) sponsored by WSSC such as:
 - Volunteer opportunities on Saturdays in October including tree shelter installation along Reddy Branch on October 15
 - o Family Campfire & Watershed Fair (TAC Co-sponsored) October 15 at Duckett dam

Next Meeting Date and Topics: those present decided to hold an additional TAC meeting in mid-November.

<u>Adjournment</u>

Howard adjourned the meeting at about 4:15 pm.

This summary was prepared by Steve Nelson.

THRIBE FAMILY CAMPFIRE & WATERSHED FAIR

Celebrate Your Watershed with Environmental Games, Prizes, Crafts, S'mores and More!

Fun For All!

Saturday, October 15 4:30-7:30

T. Howard Duckett Dam

7400 Brooklyn Bridge Road, Laurel, MD

Bring a flashlight, chairs or a blanket, unbreakable cups and long sticks for roasting marshmallows. Water and s'mores ingredients provided.



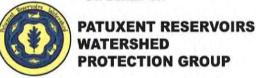
To register for this FREE program go to www.wsscwater.com and click on: "Hot Topics - Family Campfire"

For information call 301-206-8240

Presented by:

Washington Suburban anitary Commission

On behalf of:



WSSC Volunteer Opportunities

Help the planet while learning about plants that draw butterflies and birds while creating a healthy difference for our planet. Call Kim Knox at 301-206-8233.

Saturday, Oct. 8 from 9 a.m. to Noon-"Helping Small Trees Make Thru the Winter"-We will be preparing 250 small trees with watering, mulching and weeding-to ensure that they will make it thru their first winter along the Patuxent. Scott's Cove, 11000 Harding Road, Laurel

Sunday, Oct. 9 from 9 a.m. to Noon-"Walk Among a Lovely Forest with an Arborist"-We will be having native tree tour in one of the loveliest spots along the Patuxent. This area is noted for its fall wildflowers as well. Pig Tail Recreation Area, 5600 Green Bridge Road, Dayton. We will then be working from Noon to 2 p.m. removing weeds from the trees.

Saturday, Oct. 15 from 8 a.m. to Noon-"Helping New Trees to Grow"-Deer have eaten every small tree along Reddy Branch. And we need your help to put shelters around young trees that have survived the summer-but without your help, won't survive the winter with a metal fence. We will be meeting at the parking lot of the Oakley Cabin African American Museum, 3610 Brookeville Road, Brookeville, MD

Saturday, Oct. 22 from 9 a.m. to Noon-"Continuing 50+ Plus Years of Wildlife Memories"-WSSC planted an azalea garden over 50 years ago. Help us plant new azalea bushes to replace those who have passed away after blooming for over 50 years. Brighton Dam's Azalea Garden, 2 Brighton Dam Road, Brookeville.

Saturday, Nov. 5 from 9 a.m. to Noon-"Helping a Forest Continue to Grow"-We need help in picking up trash and removing invasive weeds from areas where wildlflowers are trying to grow. Triadelphia Recreation Area, 2600 Triadelphia Lake Road, Brookeville.





Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee Meeting

WSSC Potomac Room (Room 6109) November 29, 2011 1:30 p.m. – 4:00 p.m.

(15 minutes)

Chair

AGENDA

Call To Order/Opening Remarks Chair – Howard Saltzman

Administrative Business

1. Approval of September 2011 TAC Meeting Summary

2. Action Items accomplished between meetings Steve Nelson

3. Discuss frequency of TAC meetings Mark Symborski

On-Going & New Business

1. Stream assessments by DNR – Biological TMDLs Rebecca Bourquin, DNR (20 min)

2. Suggested Amendments to PRPG Original Agreement All (30 minutes)

3. Public Awareness & Stewardship Resources Chart - finalize All (15 minutes)

4. Action Items to accomplish prior to our next meeting All (5 minutes)

5. Select next meeting topic(s) All (5 minutes)

<u>Adjournment</u> Howard



Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee

Meeting Summary

November 29, 2011

Members Present

Martin Chandler (WSSC), Ken Clare (PGCDH), Meo Curtis (MCDEP), Susan Overstreet (HCDPZ), Kristal McCormick (HSCD), Howard Saltzman (HCDPW), Mark Symborski (MNCPPC), Debbie Weller (PGCDER)

Participants

Rebecca Bourquin (MDDNR Monitoring and Non-Tidal Assessment Division), Angela Morales (HCDPW), Steve Nelson (WSSC)

The meeting was called to order at 1:40 pm by Chair Howard Saltzman.

Administrative Business

- 1. There were no stated objections to the September meeting summary; consequently, it was considered final.
- Steve Nelson provided an update to the action items from the last meeting.
 Action Item 1: Steve will send to the TAC another version of the agreement with modifications focused only on removing the requirement for an annual Policy Board (PB) meeting. Steve will also send to the TAC a revised draft of the Amendment document reflecting these changes.
 The proposed modifications to the Agreement were sent to the TAC.

Action Item 2: Considering our current Agreement language regarding TAC functions (Article III.B), Steve will send to the TAC a survey question asking if general watershed-wide issues (e.g., extending sewer service beyond current envelope within the entire Patuxent Reservoirs Watershed) are appropriate for the TAC to discuss, evaluate and if the TAC recognizes a potential conflict with reservoir watershed protection to notify PB. Steve explained that a survey was not sent to the TAC because, after reviewing the Agreement language, it was apparent that the TAC has been granted authority in the Agreement to review and evaluate issues that potentially conflict with reservoir and watershed goals.

Action Item 3: Steve will e-mail TAC final version of the Public Awareness Priority Resource Chart for final revisions. The chart was sent to the TAC.

Action Item 4: To continue progress towards revising the Priority Resource Charts, Steve will email a first draft of the Reservoir-Water Supply Priority Resource Chart for TAC review. No action was taken.

On-Going & New Business

- Rebecca Bourquin (MDDNR) updated the TAC about a joint effort with MDE that involved performing Stream Corridor Assessments (SCA) in four watersheds, including the Hawlings River watershed.
 - MDDNR was responsible for the SCA and performed it on behalf of MDE.
 - MDDNR was not sure how this information was going to be used. MDE will be responsible for the next steps for the project and determining if the efforts will translate into restoration projects in the future.
 - Rebecca stated that MDE selected watersheds identified on MD's 303d list.
 - Rebecca asked the TAC for additional, local information as well as a list of local watershed priorities to include in their report to MDE.
 - The SCA performed in the four watersheds was funded through an EPA 319 grant. This effort took five years. Only the Hawlings River watershed is in the Patuxent Reservoirs Watershed.
 This project is managed by Greg Sandi at MDE. Rebecca did not believe that additional SCAs would be conducted in the future.
 - Meo Curtis explained that MCDEP has already planned for restoration in the Hawlings River watershed, but that data from recent SCAs would help determine if any improvements were observed since DEP's SCA.
 - DNR used a sampling protocol similar to the one originally developed by Ken Yetman (MDDNR). Some of the differences included: 1) replacing the original reference site with MBSS methods, 2) collecting water chemistry data via Hydrolab instrument, 3) performing benthic assessments (not for Hawlings yet due to large storm events this past summer).
 - Meo stated that she would contact Greg Sandi to arrange a meeting with the MCDEP Restoration Group. Debbie Weller also offered to meet with DNR to coordinate efforts for the Mattawoman Creek watershed.
 - Meo offered to report back to the TAC after meeting with Greg.

2. Suggested Amendments to PRPG Original Agreement

- Martin Chandler announced that WSSC's General Manager Jerry Johnson was not in favor of
 the suggested amendments to the Patuxent Reservoirs Watershed Agreement (the
 Agreement). The current (unchanged) Agreement still prevails and there will be an annual
 meeting with the Policy Board early in 2012. Martin added that Mr. Johnson's desire is for
 representation at the executive level from all partnership agencies in order to address
 substantive policy and watershed protection issues. Mr. Johnson also did not favor removal
 of the State TAC members.
- Susan Overstreet asked if amending the Agreement should be considered at the upcoming annual meeting. Most TAC members after extensive discussion agreed it should be considered by the Board but the Policy Board members would need to be advised about the issue in advance of the meeting.
- TAC members discussed four, potential amendments to the Agreement including: 1) removing the requirement to hold meetings annually, 2) removing the state agencies from the list of TAC agency members, 3) changing Policy Board representation from the executive level to a delegated representative, and 4) changing the term and rotation among the three Counties for the chair of the Policy Board. Susan Overstreet suggested that the TAC may need advice from the respective county legal departments regarding the proposed third amendment.

- Howard suggested that the agenda indicate which issues require consideration by the Policy Board. Mark Symborski added that a brief explanation of each issue should be included.
- Howard commented that the intent of the annual meeting may change from a presentation of annual accomplishments to a discussion of relevant issues related to protecting the reservoirs and their watershed.
- TAC members chose the following topics for an annual Policy Board meeting draft agenda:
 - 1. Ask the Policy Board if the TAC should investigate watershed-wide issues that may conflict with reservoir watershed protection goals. As an example, should the TAC assess and propose solutions if there is an increase in impervious cover in certain zoning districts throughout the watershed? A goal of this type of analysis would be to present findings, propose solutions, and recommend actions to the Policy Board.
 - 2. Inform the Policy Board that HSCD has spent their allocation for Patuxent Cost Share program, explain their desire to continue the program, and ask for support for additional funds. This request would not apply to the MSCD because funds are available.
 - 3. Coordinate among our partnership's agencies to implement plans to meet the reservoir TMDLs. The TAC should emphasize the need for a coordinated, comprehensive plan including a timeline. The recent effort in Howard County to conduct an agricultural census was mentioned as one of many components needed to fully address the reservoir TMDLs.
- 3. TAC members also discussed the following issues as potential agenda topics:
 - Reconsider pollutant loads from septic systems, and
 - Consider impacts from the equine community throughout the watershed.
- 4. TAC members made a few changes to the current version of the Public Awareness & Stewardship Resources Chart.
 - Extending the time line for implementation item 3.2, and
 - Removing implementation items 2.4 (conducting a public outreach survey) and 3.1 (targeted mailing in Prince George's County portion of watershed).
- 5. Action Items to accomplish prior to the next TAC meeting

Action Item 1: Steve will distribute a Doodle poll to select a meeting date and time for the Policy Board and a January TAC meeting. It was suggested that a TAC conference call may be sufficient for any needed preparation.

Action Item 2: TAC members will draft brief summaries of policy issues that may be considered by the Policy Board at the next meeting. Steve will then compile these summaries and distribute them along with a draft agenda to the TAC, Policy Board Chair, and Policy Board.

- o Martin Chandler Reservoir TMDLs
- o Kristal McCormick Patuxent Reservoirs Watershed Cost Share Program at HSCD
- o Mark Symborski TAC's authority to address watershed-wide issues
- o Unassigned Modifications to Patuxent Reservoirs Watershed Agreement

Action Item 3: Steve will send to the TAC an email supporting the opinion that the TAC already possesses authority to consider watershed-wide issues that potentially conflict with reservoir and watershed protection goals.

Action Item 4: To continue progress toward revising the Priority Resource Charts, Steve will email a final draft of the Public Awareness Chart and a first draft of the Reservoir/Water Supply Chart for TAC review.

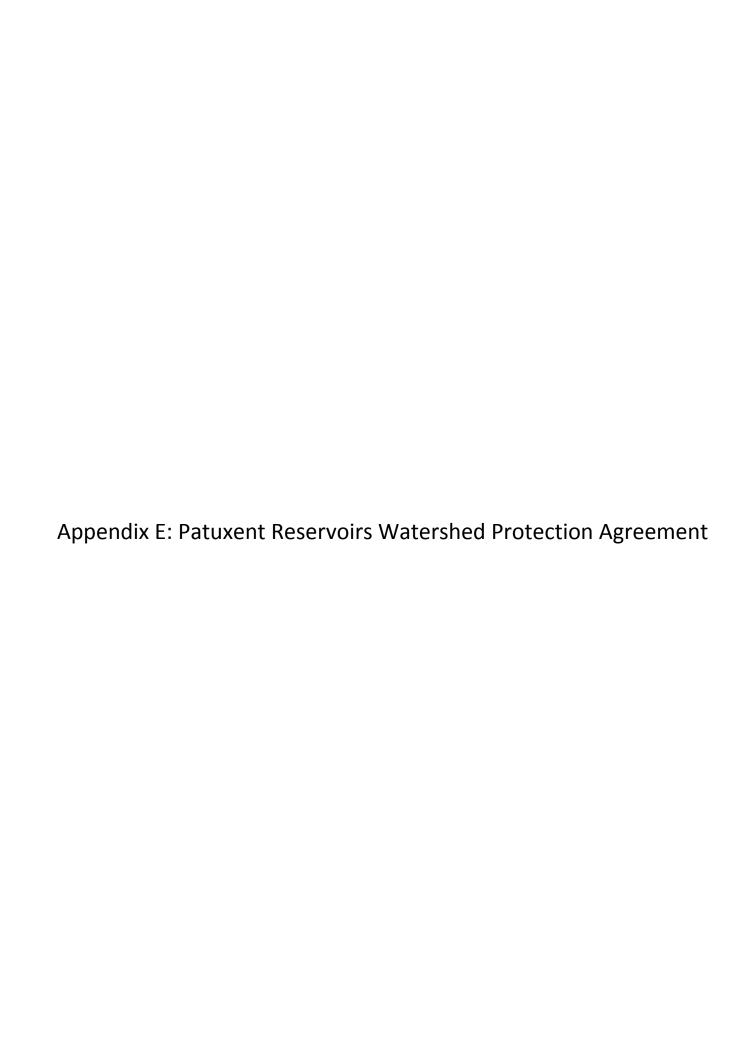
Action Item 5: Steve will distribute information about the *Urban Waters Small Grants* funding opportunity to the TAC. Grant applications are due January 23, 2012.

Next Meeting Date and Topics: Those present decided to either meet in January 2012 or arrange a conference call in preparation for a meeting with the Policy Board in February 2012.

Adjournment

Howard adjourned the meeting at about 4:00 pm.

This summary was prepared by Steve Nelson.



PATUXENT RESERVOIRS WATERSHED PROTECTION AGREEMENT

This agreement is effective this 29th day of October, 1996, by and among Howard County, Montgomery County, Prince George's County (a body corporate and politic), the Howard Soil Conservation District (HSCD), the Montgomery Soil Conservation District (MSCD), the Maryland National Capital Park and Planning Commission (M-NCPPC), and the Washington Suburban Sanitary Commission (WSSC)

WHEREAS, the parties agree that the Patuxent Reservoirs Watershed includes the Triadelphia and T Howard Duckett (Rocky Gorge) reservoirs, the contributing Patuxent River and its tributary streams and associated groundwater resources,

WHEREAS, the parties to the agreement recognize the importance of protecting the long-term biological, physical, and chemical integrity of the Patizient Reservoirs Watershed;

WHEREAS, the parties recognize the work of the Patixent Reservoirs Protection Group (PRPG) as valid and recognize that an interjurisdictional partnership is needed to promote reservoir watershed protection strategies.

WHEREAS the parties desire to develop and implement a multi-barrier watershed management approach to assure the integrity of a continued supply of high quality potable water at reasonable cost.

WHEREAS, the parties acknowledge the importance of integrating a Patuxent Reservoir Protection Strategy with the Patuxent Tributary Strategy to address the goals of the 1987 Chesapeake Bay Agreement; and

WHEREAS, the parties desire that the benefits of and responsibilities for necessary actions be shared equitably by all parties.

NOW. THEREFORE, BE IT RESOLVED, that in consideration of the covenants and agreements set forth hereinafter, it is mutually covenanted and agreed as follows:

ARTICLE I - ESTABLISHMENT OF A PATUXENT RESERVOIR PROTECTION STRATEGY

The need for establishing a protection strategy as outlined in the interim report <u>Developing a Pattixent Reservoir Protection Strategy</u> (March 1995) is hereby recognized by the parties. The parties hereby agree to cooperate with each other regarding initiatives that will help fulfill recommendations of the "Interim Action Plan for Reservoir Protection" and to the "Development of a Long-Term Reservoir Protection Program" as outlined in that report.

ARTICLE II - POLICY BOARD

A Members

The Policy Board ("Board") shall be composed of the County Executives for Howard County, Montgomery County, and Prince George's County; the Chairpersons for the Howard Soil Conservation District (HSCD) and the Montgomery Soil Conservation District (MSCD) Boards, the Executive Director for the Maryland-National Capital Park and Planning Commission (M-NCPPC); and the General Manager of the Washington Suburban Sanitary Commission. Any Board member may designate an alternate by written notification to other Board members.

The Policy Board may change its membership by consensus among existing members

B Functions

The Board shall meet yearly to receive the Technical Advisory Committee's annual report and to review ongoing activities and the results of studies targeted toward protecting the reservoirs and their resources. The Board may meet more frequently to consider issues and make recommendations as necessary. The Board shall encourage cooperative arrangements to ensure that all parties participate actively in programs and policies that maintain and improve water quality and habitat throughout the reservoirs watershed.

The Board shall consider:

- Review and evaluation of information from the Technical Advisory Committee;
- 2 Strategies to address present or anticipated problems;
- 3 Work activities among parties for the coming year, and
- 4 Other matters found necessary or desirable for reservoir watershed protection.

The Board will agree by consensus on all recommendations, determinations, and proposals. The Board's decisions shall be advisory only, and shall not be binding on any political subdivision or agency participating in this agreement. An annual summary of the Board's decisions shall be prepared and nade available to the public.

C Chairpersons

The County Executives of Howard County, Mortgomery County, and Prince George's County will serve successive terms as the Chairperson. The Chairperson will serve from July 1st of one year to June 30th of the following year. The County Executives will agree upon the order of the succession.

ARTICLE III - TECHNICAL ADVISORY COMMITTEE

A Members

The Technical Advisory Committee ("Committee") consists of representatives from. (1) Howard County: Department of Health; Department of Planning and Zoning; and Department of Public Works; (2) Montgomery County: Department of Environmental Protection and Department of Permitting Services; (3) Prince George's County: Department of Environmental Resources and Department of Health; (4) the M-NCPPC, (5) the HSCD, (6) the MSCD, (7) State of Maryland: Department of Agriculture; Department of the Environment; and Department of Natural Resources; and (8) the WSSC.

The Committee will meet at least once per year to review the results of that year's work efforts, to recommend a work plan for the next year, and to prepare the annual report to the Board. The Committee will meet more frequently as needed to review, evaluate, and make recommendations on reservoir-related concerns.

The Committee may propose standing subcommittees or ad hoc workgroups as needed to evaluate specific reservoir protection issues. The subcommittees and workgroups may request representatives from agencies or groups that are not permanent members of the Committee to participate.

B Functions

- The Committee or designated workgroups shall meet as necessary to periodically review and evaluate existing problems and proposed actions which may affect the reservoirs and the watersheds, including the following functions:
 - a. Providing sources of high quality raw water as a regional water supply system;
 - b. Providing habitats to support high quality aquatic and riparian communities:
 - c. Providing desirable places for environmental enhancement and wildlife habitatt and
 - d. Providing aesthetic, recreational, and other beneficial uses.

- The Committee or designated workgroups will work cooperatively to expeditiously recommend balanced pollution control strategies and management measures to
 - a Control sediment loadings to the reservoirs;
 - b Minimize the levels of nutrients and pollutants entering the reservoirs and the tributary streams;
 - c. Prevent degradation of the high quality, interconnected surface and groundwater resources of the tributary streams and throughout the watershed; and
 - d Encourage stewardship of the reservoirs watershed and resources
- 3. The Committee may develop and formulate public education and outreach initiatives, urban, forestry, and agricultural best management practices; innovative site designs; alternative on-site disposal systems, natural resource management strategies; stream restoration projects; and any other measures that protect and enhance water quality or habitat throughout the watershed.

Whenever major reservoir water quality problems must be addressed, the Committee shall evaluate alternative solutions and the cost-effectiveness of these measures in making recommendations for reservoir resource protection.

- The Committee shall prepare a written report to submit to the Board for its annual meeting. The Annual Report shall include:
 - a. Results of reviews and evaluations on reservoir protection issues;
 - b. Progress on programs and practices being implemented by the parties to protect the reservoirs and their resources;
 - c. Recommendations on strategies to encourage reservoir resource protection; and
 - d. A recommended work plan for the coming year.

C Chairpersons of Committee and Workgroups

The Committee and its workgroups shall agree by consensus on the method of selection and terms for Chairpersons to lead all meetings.

ARTICLE IV - MODIFICATIONS AND AMENDMENTS

A Membership of the Policy Board

Any changes in Policy Board membership, except designation of an alternate, shall initiate the process for modification of this agreement. The modified agreement must indicate the change(s) in Policy Board composition and shall become effective after being signed by all members of the modified Policy Board.

B Modification or Amendment of the Agreement

This agreement may be modified or amended by consensus of the Policy Board members. The Policy Board shall consider changes in membership or any other modifications and amendments of this agreement at its annual meeting

Changes based on consensus among Policy Board members will initiate the process for agreement modification. The modified or amended agreement will not become effective until signed by all members of the Policy Board as defined in the modified or amended agreement.

ARTICLE V - RIGHTS OF PARTIES NOT TO BE ABROGATED

- A. Nothing in this agreement shall limit or abrogate any right or rights delegated to any of the governments or agencies which are parties to this Agreement by acts of the General Assembly of the State of Maryland.
- B Each party hereto agrees that participation by any party to the agreement may be terminated by that party with three months written notice to the other parties of the agreement.

PATUXENT RESERVOIRS WATERSHED PROTECTION AGREEMENT

ý.	
0/11/1	15 / 1 5 / 5
1/20 18h	10/27/96
Charles I. Ecker	Date
County Executive	Dato /
Howard County	
Howard County	
Horlo ma	11/6/96
Douglas M. Duncan	Date
County Executive	2.00
Montgomery County	
*	
	, ,
Ware K. Com	10/29/94
Wayne K. Curry	10/29/94 Date
County Executive	7
Prince George's County	
Table College College	
William & Same	1272 2
Villiam (fames	10/29/96
William E. Barnes	Date
Chairman	4.00
Howard Soil Conservation District	
Board of Supervisors	
7.4	
Lo 1 - 18 Lo St. 121	1 2201
Lough E. Techlister	10-29-96
George E. Lechlider	Date
Chairman	
Montgomery Soil Conservation District	*
Board of Supervisors	
Lucal Illies Shuson	Att 1 29 1691
inial Margary NUST	Octobe = 29, 1996
Trudye Morgan Johnson	Date
Executive Director / /	
Maryland-National Capital	
Park and Planning Commission	
Darling of Marian and Salkania	
A + A (Act	in In a lay
conten the with te	10/29/96
Cortez A.J White	Date
General Manager	
Washington Suburban Sanitary Commission	

Appendix F: Patuxent Re	servoirs Protection St and Amendments	rategy Agricultural MOU

Patuxent Reservoir Protection Strategy Memorandum of Understanding

This memorandum is effective this 1st day of October, 1998, by and among Howard County (HC), Montgomery County (MC), Prince George's County (PGC, a body corporate and politic), the Howard Soil Conservation District (HSCD), the Montgomery Soil Conservation District (MSCD), Maryland-National Capital Park and Planning Commission (M-NCPPC) and the Washington Suburban Sanitary Commission (WSSC).

Whereas, on October 29, 1996, the parties signed the Patuxent Reservoir's Watershed Protection Agreement which recognizes the importance of protecting the long term biological, physical and chemical integrity of the Patuxent Reservoir's Watersheds;

Whereas, the parties desire to develop and implement a multibarrier watershed management approach to assure the integrity of a continued supply of high quality potable water at reasonable cost;

Whereas, the parties recognize the economic benefit of agriculture within the reservoir's watersheds;

Whereas, on October 6, 1997, the parties adopted the 1997 Annual Report and Action Plan which established two agricultural initiatives;

Whereas, the first initiative will accelerate the volunteer agricultural conservation planning outreach through the two soil conservation districts, and the second initiative is the development of a local cost-share program for the installation of stream-side best management practices;

Now, Therefore, subject to available funding and future appropriations and in consideration of the covenants and agreements set forth hereinafter, the parties mutually covenant and agree as follows:

. Article I - Funding

A. General

An arount not to exceed \$100,000 will be provided by equal contributions of \$33,333 from WSSC, Howard and Montgomery Counties for the initial year of the program. Funding thereafter is contingent upon the success of the program as determined by WSSC, Howard and Montgomery Counties and their respective budgetary constraints. The amounts required by ESCD and MSCD will be equally divided within their respective districts between the planner position initiative and the stream-side best management practices initiative. Any surplus funds will be either: 1) redirected to the funding account for the other initiative; 2) equally disbursed to WSSC, Howard and Montgomery Counties; or 3) rolled over into the next fiscal year as determined by

consensus of the Technical Advisory Committee as established in the Patukent Reservoir's Watershed Protection Agreement.

The initial contribution of \$100,000 is to be made on July 1, 1998, (or thereafter), with payment of \$75,000 to MSCD and \$25,000 to HSCD.

B. Stream-Side Cost-Share Program

The need for development of stream-side cost-share programs will be funded through an annual \$50,000 contribution (subject to future appropriations) equally in the amount of \$16,666 from the WSSC, Howard and Montgomery Counties, respectively. This annual \$50,000 appropriation will be divided between the two districts as mutually agreed upon by a vote of the two district boards (HSCD and MSCD, majority vote of combined board members). Howard and Montgomery Counties' funding shall be spent within their respective county boundaries.

C. Conservation Planner Position

The need for accelerated volunteer conservation planning assistance to those agricultural operations within the reservoir watersheds will be funded through an annual \$50,000 contribution (subject to future appropriations) equally in the amount of \$16,666 from WSSC, Howard and Montgomery Counties, respectively.

Article II - Conservation Planner

A. Administration

The \$50,000 annual contribution for the planner position will be paid to MSCD. MSCD will in turn hire a contractual conservation planner in consultation with the HSCD. MSCD will administer the position. The position will be limited to serving the agricultural community as defined by the HSCD's and MSCD's respective Agricultural Unit Inventory within the reservoir watersheds. The planner will contact landowners on the importance of soil conservation and water quality plans. The planner will also prepare conservation plans for the landowners in the HSCD and MSCD respectively and assist with the five-year implementation of those plans which are to be based upon volunteer participation and public outreach efforts. The planner will answer administratively to the MSCD Board of Supervisors or their designee, except that when the planner is working within the HSCD, the supervision of the planner's workload priorities will be provided by the HSCD Board of Supervisors or their designee.

B. Work Plans

The accelerated conservation planning assistance will support the respective five-year work plans for the landowners of the two districts. In working with an anticipated customer base that consists of farmettes and horse operations as well as the remaining traditional agricultural operations, extensive public education will be a top priority in selling the importance of conservation plans.

Direct mailings, personal visits, community meetings, tour and brochures are examples of those educational tools that may be used.

Every landowner within the reservoir watersheds that has been identified by the HSCD and MSCD as needing to be educated will be contacted. Over the five years the goal is to contact 471 landowners. These contacts will be opportunities to educate landowners on how practicing conservation will aid in improving water quality within the two reservoirs. It's estimated that this outreach effort will result in the following number of five-year work plans:

Landowners Contacted	Plans Prepared	Acreage of Plans Prepared
40	24	1368
90	54	3078
114	68	3876
114	68	3876
113	67	3819
471	 281	16017
	Contacted 40 90 114 114 113	Contacted Prepared 40 24 90 54 114 68 114 68 113 67

Article III - Cost-Share Program

HSCD and MSCD will each develop a local stream-side cost-share program that will supplement the current state and federal agricultural cost-share programs that currently pay up to 87-1/2% of installation costs of stream-side best management practices. The programs to be developed by HSCD and MSCD are intended to reimburse applicants for up to 12-1/2% of their out-of-pocket costs for the installation of stream-side best management practices. The combined cost-share between the current federal and state programs and the program to be developed by HSCD and MSCD are not to exceed 100% of the installation costs. The amount of the applicants' reimbursement will be based upon the HSCD and MSCD respective adopted cost-share flat rates. All eligible applicants will be required to install their best management practices in accordance with USDA Natural Resources Conservation Service standards and specifications.

Article IV - Accomplishments

The HSCD and MSCD shall prepare a joint report of annual accomplishments documenting the progress of the two agricultural initiatives and provide an accounting of appropriations/expenditures.

The report will be forwarded to the Patuxent Technical Advisory Committee for inclusion in their Annual Report.

The report will be prepared on a July 1 - June 30 fiscal year cycle. The report shall be submitted to the Technical Advisory Committee by September 1 of each year.

In addition, the HSCD and MSCD will present updates during the periodic Technical Advisory Group meetings. The updates will focus upon landowner contacts, plans prepared and best management practices installed.

Article V - Termination

Each party hereto agrees that participation by any party to this agreement may be terminated by that party upon thirty (30) days written notice to the other parties to this agreement.

In the event of termination all applications received for payment prior to the termination date will be processed for payment subject to eligibility requirement and built according to HSCD and MSCD respective approval. No applications will be accepted on or after the termination date. Any remaining funding after eligibility payments will be disbursed equally to WSSC, Howard and Montgomery Counties.

Charles I. Ecker
County Executive
Howard County

Douglas M. Duncan

As TO FORM AND MEANUTY Executive
COUNTY ATTOMES

Date

11 24 98

Wayne K. Curry
County Executive
Prince George's County

A-12

Patuxent Reservoir Protection Strategy Memorandum of Understanding

Amendment #1

This amendment is by and among the following parties. Howard County, Maryland (HC) a body corporate and politic; Montgomery County, Maryland (MC) a body corporate and politic; Prince George's County, Maryland (PGC) a body corporate and politic; the Howard Soil Conservation District (HSCD), the Montgomery Soil Conservation District (MSCD), Maryland-National Capital Park and Planning Commission (M-NCPPC), and the Washington Suburban Sanitary Commission (WSSC), and is effective this 30th day of November, 2000.

The parties entered into a Memorandum of Understanding (MOU) effective October 1,

1998 The purpose of this amendment is: 1) to delete the provisions for the hiring of a

Conservation Planner position; 2) to modify the stream-side cost-share program in Article III of the MOU; and 3) to add provisions for amending the MOU.

Under Article III of the MOU, the Howard Soil Conservation District (HSCD) and the Montgomery Soil Conservation District (MSCD) would utilize funding provided via the MOU to reimburse owners of agricultural-zoned property for up to 12-1/2% of their out-of-pocket cost for installation of stream-side best management practices. This reimbursement would supplement state and federal cost-share programs that presently pay up to 87-1/2% of installation costs of stream-side best management practices (BMP's). The Technical Advisory Committee (TAC) decided that cost-share funds from this MOU instead should be spent on implementing stream-side best management practices for non-agricultural zoned property owners (who are not presently eligible for the state and federal cost-share programs). This new incentive program will provide reimbursement payments to non-agricultural zoned property owners for installation of approved stream-side best management practices, such as the creation of riparian buffers, the fencing of streams, and similar approved BMP's.

Changes

- 1) On page 1, the sixth paragraph is revised to read as follows: "Whereas, the first initiative will focus upon the volunteer agricultural conservation planning outreach efforts of the two soil conservation districts, and the second initiative is the development of a local cost-share program for the installation of stream-side best management practices;"
 - 2) Article I Funding, A. General is revised as follows-
- a. The third sentence is revised to read as follows: "The amounts required by HSCD and MSCD will be approved within their respective districts for the stream-side best management practices initiative."
- b. The fourth sentence is revised to delete number 1, and numbers 2 and 3 are respectively renumbered as 1 and 2.
- c. Article I Funding, C. Conservation Planner Position. The entire section is deleted.
- 3) Article II Conservation Planner, A. Administration is deleted and the following is inserted instead: "The Howard and Montgomery Soil Conservation Districts will provide existing resource staff toward the development of soil conservation and water quality plans. This staff will be serving the agricultural community as defined by the respective district's Agricultural Unit Inventory within the Paturent reservoir watersheds. This staff will contact landowners on the importance of soil conservation and water quality plans. Staff will prepare conservation plans for the landowners and assist with the implementation of those plans. Those efforts will be based upon the volunteer participation of landowners and district public outreach efforts."
- 4) Article II Conservation Planner, B. Work Plans. The word "accelerated" is deleted from the first sentence.

- "HSCD and MSCD will jointly develop and approve a local stream-side cost-share/incentives program and payment schedule that will encourage landowners of non-agricultural zoned property to install best management practices that protect and improve water quality in the Patuxent Reservoirs Watershed. The program will provide cost share up to 80% of the approved program costs or incentive payment schedule (to be approved and distributed by the two soil conservation districts), not to exceed \$5,000 per property owner, regardless of the number of projects to be implemented by the property owner or the number of non-agricultural zoned properties owned. All eligible applicants will be required to install their best management practices in accordance with USDA Natural Resources Conservation Service standards and specifications."
 - 6) A new Article V, is added to read as follows:

Article V - Amendments

This agreement may be amended at any time by written agreement of the parties. The Technical Advisory Committee (TAC) may initiate action to amend this agreement and propose terms for the amendment. The TAC will employ the following process for obtaining consensus regarding review and approval of any proposed amendments:

- 1) Any amendment pertaining to the appropriation, allocation or expenditure of funds may be adopted by the written agreement of the following three entities providing funds:

 Montgomery County, Howard County and the WSSC. This adoption will be evidenced by an amendment document executed by the official representatives of the respective three entities.
- 2) Amendments of a non-funding nature shall require the written approval of all parties.
 - 7) The old Article V Terminations becomes Article VI
- 8) All provisions of the Memorandum of Understanding remain in effect unless specifically changed by this amendment.

Signature Page County Executive Howard County, Maryland Date County Executive Montgomery County, Maryland Wayne K. Curry County Executive Prince George's County, Maryland ohn R. Griffin General Manager Washington Suburban Sanitary Commission William Barnes Chairman Howard Soil Conservation District George Lechlider Chairman Montgomery Soil Conservation District

A-16

#PPTC.F7 45 TO FT

Trudye Morgan Johnson Executive Director

Maryland-National Capital Park & Planning Commission

PROVED AS TO LEGAL SUFFICIENCY

Cortel A. White
General Manager
Washington Suburban Sanitary
Commission

William Barnes
Chairman
Howard Soil Conservation
District

Seorge Lechlider
Chairman
Montgomery Soil Conservation
District

Trudre Morgan Johnson
Executive Director
Manyland-National Capital
Park & Flanning Commission

Attact: A. & Nawawa

Patuxent Reservoir Protection Strategy

Memorandum of Understanding

Amendment #2

This amendment is by and among the following parties. Howard County, Maryland (HC) a body corporate and politic, Montgomery County, Maryland (MC) a body corporate and politic, the Howard Soil Conservation District (HSCD), the Montgomery Soil Conservation District (MSCD), and the Washington Suburban Sanitary Commission (WSSC) and is effective this day of June 2004

Background

The parties entered into a Memorandum of Understanding (MOU) October 1, 1998 to develop a program for encouraging and supporting streamside best management practices in the Patuxent Reservoir watershed

The Technical Advisory Committee (TAC) during its deliberation in the year 2000 recommended that the cost-share funds from this MOU should be spent on implementing streamside best management practices for non-agricultural zoned property-owners who are not eligible for the state and federal cost-share programs. This recommendation was approved on November 30, 2000 via Amendment #1. In light of the fact that no non-agricultural applicants have been interested in this cost share program in Montgomery County, Amendment #2 is developed to modify Art. III regarding the eligible streamside properties for the cost-share program. Modifications include 1) replacing "land owners of non-agricultural zoned properties" in line 3 of Art III with "property owners", and 2) removing "non-agricultural zoned" in the 8th line of Art. III The modifications read as follows:

- 1) Article III The Howard Soil Conservation District (HSCD) and the Montgomery Soil Conservation District (MSCD) will jointly develop and approve a local stream-side cost-share/incentives program and payment schedule that will encourage property owners to install best management practices that protect and improve water quality in the Patuxent Reservoirs Watershed The program will provide cost share up to 80% of the approved program costs or incentive payment schedule (to be approved and distributed by the two soil conservation districts), not to exceed \$5,000 per property owner, regardless of the number of projects to be implemented by the property owner or the number of properties owned. All eligible applicants will be required to install their best management practices in accordance with USDA Natural Resources Conservation Service standards and specifications
- 2) All provisions of the Memorandum of Understanding and Amendment #1 remain in effect unless specifically changed by this Amendment

	Signature Page	2		
James N. Robey County Executive Howard County, Maryland R	TTEST: Aguel Sanudo Aquel Sanudo hier Adminis	nudo	5/4/04 ate <u>5/4/0</u> Date	· ·
Douglas M Duncan County Executive Montgomery County, Maryland John R Griffin General Manager Washington Suburban Sanitary Commission	on	Da Da	5/23/on ate APPROVED AS TO FO OFFICE OF COUNTY BY Neer DATE 5/21	ORM AND LEGALITY ATTORNEY OF BALLETON
William Sarnes Chairman Howard Soil Conservation District	1	Dat	2/26/04/ te	The contract of the contract o
Search Jecklister George Vechlider Chairman Montgomery Soil Conservation District		 Dat	3/12/04 te	
	2	.» _ ~		

Approved as to Legal Sufficiency this day of / 2004_, Barbara M. Cook Howard County Legal Department	Date
Approved as to Legal Sufficiency Sille D. Bushan Montgomery County Legal Department	5 (21/2004) Date
Approved as to Legal Sufficiency Washington Suburban Sanıtary Commission General Counsel's Office	5-26-04 Date
. 3	

Appendix	k G: Technic	al Advisory	Committe	ee Member	s and Par	ticipants

Patuxent Reservoirs Watershed Protection Group Technical Advisory Committee - 2011

Members and Alternates

	Agency	Name	Alternate
1	Howard County Department of Health	Bert Nixon	
2	Howard County	Susan Overstreet	Lindsay DeMarzo
	Department of Planning & Zoning		
3	Howard County	Howard Saltzman	Angela Morales
	Department of Public Works		
	Stormwater Management Division		
4	Howard Soil Conservation District	Kristal McCormick	
5	Maryland Department of Agriculture	Byron Petrauskas	
	Office of Resource Conservation		
6	Maryland Department of the Environment	VACANT	
7	Maryland Department of Natural Resources	VACANT	
8	Maryland-National Capital Park & Planning Commission	Mark Symborski	Katherine Nelson
9	Montgomery County	Meo Curtis	
	Department of Environmental Protection		
10	Montgomery County	VACANT	
	Department of Permitting Services		
11	Montgomery Soil Conservation District	David Plummer	
12	Prince George's County	Jerry Maldonado	Debbie Weller
	Department of Environmental Protection		
13	Prince George's County	Ken Clare	
	Department of Health		
	Division of Environmental Health		
14	WSSC, Environmental Group	Martin Chandler	

Interested Parties

	Agency	Name
1	Howard Soil Conservation District	Bob Ensor
2	Maryland Department of Natural Resources, Park Service	Kim Lloyd
3	Montgomery County	Ryan Zerbe
	Department of Environmental Protection	
4	Prince George's County	Carole Ann Barth
	Department of Environmental Protection	
5	Prince George's Soil Conservation District	Eileen Beard
6	Prince George's Soil Conservation District	Dave Bourdon
7	Prince George's Soil Conservation District	Steve Darcy
8	WSSC, Office of Communications & Community Relations	Sandy August
9	WSSC, Office of Communications & Community Relations	Kim Knox
10	WSSC, Environmental Group	Mohammad Habibian
11	WSSC, Environmental Group, TAC Coordinator	Steve Nelson