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Secretary/Director

Mr. Lewis L. Lawrence

MEMORANDUM

TO: MPPDC Board of Commissioners

FROM: Lewis Lawrence, Executive Director 

DATE: May 19, 2016

RE: May Commission Meeting

Please join us on Wednesday, May 25, 2016, at VIMS Watermen's Hall, 1375 Greate Rd, Gloucester Point, VA 23062 for a presentation by Ted Henifin, HRSD General Manager, on HRSD's Sustainable Water Recycling Initiative.

We will begin the evening with a regional networking period from 6:00-7:00 p.m. Dinner will follow catered by Scoots BBQ of Gloucester. The business meeting and presentation will begin at 8:00 p.m. The cost for the dinner is \$12. **The deadline for reservations is May 23, 2016.**

Enclosed are the May meeting agenda and supporting materials for your review prior to the meeting.

If you have any questions concerning material in your agenda packet, please give me a call at 804-758-2311 or email me at LLawrence@mppdc.com.

I look forward to seeing you on May 25th!

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***Middle Peninsula Planning District Commission
Meeting***

7:00 P.M.

Wednesday, May 25, 2016

**Watermans Hall VIMS, 1375 Greate Road
Gloucester Point, VA**

AGENDA

- I. Welcome and Introductions
- II. Invocation
 - Ashley Chriscoe, Gloucester County Board of Supervisors
- III. Approval of April Minutes
- IV. Approval of April Financial Report
- V. Executive Director's Report on Staff Activities for the Month of May
- VI. Other Business
- VII. Presentation by Ted Henifin, HRSD General Manager - *HRSD's Sustainable Water Recycling Initiative*
- VIII. Adjournment

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MIDDLE PENINSULA PLANNING DISTRICT COMMISSION

April 27, 2016
Saluda, Virginia

1. Welcome and Introductions

The monthly meeting of the Middle Peninsula Planning District Commission was held in the Regional Board Room at the Middle Peninsula Planning District Commission office in Saluda, Virginia on Wednesday, April 27, 2016, at 7:00 p.m. MPPDC Vice Chairman Thomas “Tom” Swartzwelder called the meeting to order and welcomed everyone in attendance.

Commissioners Present

Gloucester County: Dr. William “Willie” Reay, Michael Winebarger
King & Queen County: R.F. “Rusty” Bailey, Thomas “Tom” Swartzwelder
King William County: Dr. Ken Griffin, David Hansen, Travis Moskalski
Mathews County: O J Cole, Jr.; Thornton “Tim Hill”, Jack White
Middlesex County: Trudy Feigum, John “Jack” Miller
Town of West Point: Paul Kelley

Commissioners Absent

Essex County: Margaret “Prue” Davis, Edwin “Bud” Smith, Jr., John Magruder
Gloucester County: Ashley Chriscoe, J. Brent Fedors
King & Queen County: Sherrin Alsop
King William County: Eugene Rivara
Middlesex County: Wayne Jessie, Sr.
Town of Tappahannock: Roy M. Gladding, James Sydnor
Town of Urbanna: Steve Hollberg

Also in Attendance

Lewis Lawrence, MPPDC Executive Director
Beth Johnson, MPPDC Finance Director
Rose Lewis, MPPDC Secretary
Harrison Bresee III, Regional Emergency Planner
Eldon James, Jr., Rappahannock River Basin Commission
Michael Chandler, VA Tech Land Use Education Program
Greg Evans, VA Department of Forestry
Eldon James, III
Citizens of the Middle Peninsula

2. Approval of March Minutes

MPPDC Vice Chairman Swartzwelder asked whether there were any corrections or changes to the March Minutes. There were no corrections or changes to the March Minutes. Vice Chairman Swartzwelder requested a motion to approve the March Minutes as distributed. Jack White moved that the March Minutes be approved as distributed. Tim Hill seconded the motion; motion carried.

3. Approval of March Financial Reports

MPPDC Vice Chairman Swartzwelder asked whether there were any questions regarding the March financial reports before being approved subject to audit. There were no questions. Vice Chairman Swartzwelder requested a motion to approve the March financial reports subject to audit. Trudy Feigum moved to approve the March financial reports subject to audit. O J Cole, Jr. seconded the motion; motion carried.

4. Executive Director's Report on Staff Activities for the Month of April

MPPDC Vice Chairman Swartzwelder requested Lewis Lawrence, Middle Peninsula Planning District Commission Executive Director, to review the Executive Director's Report on Staff Activities for the month of April. The Executive Director's Report on staff activities is developed at a monthly staff meeting, organized by PDC Service Centers, and the activities are used to report grant funding activities.

Mr. Lawrence reviewed the Executive Director's Report for the month of April as follows:

- ▶ Staff received feedback from FEMA regarding the draft AHMP. FEMA is requiring a few revisions to the plan before approval. Required revisions included the addition of a work cited document, the sign in sheet from the public meetings, added specific hazards to the mitigation strategy since FEMA wanted to see the connection, and the addition of information that shows a difference of vulnerability to hazards amongst localities. FEMA, VDEM, and MPPDC staff had a phone conference on April 5, 2016 to review this feedback. To-date MPPDC staff has addressed the needed revisions and has resubmitted the plan to VDEM and FEMA for a second review.
- ▶ Closed the Middlesex County Public Access Survey on April 4, 2016. A total of 102 citizen participated in the survey. The survey responses have been sent to Middlesex County for review, while MPPDC staff is currently analyzing the results.
- ▶ Consulted with Dr. Ted Tweel, District Director of the Three Rivers Health District. Requested a copy the Three Rivers Health District FY 16 budget. Received a non responsive answer related to the question of does Three Rivers Health District have an operational budget? The question was forwarded to Virginia Department of Health Deputy Director Bob Hicks who is working on a response.
- ▶ Convened the Middle Peninsula Mayors and Chairs caucus to seek final agreement on the legal framework for the formation of a Middle Peninsula

Economic Development Organization. Agreement was reached on the legal framework. A date of July 1, 2016 was set for the deadline for local action to ratify the agreement.

- ▶ Sent MPPDC FY16 Indirect Cost Allocation Plan and Certification to Lamar Revis, NOAA requesting establishment of formal approval of MPPDC Indirect rate. Previously MPPDC received approval through the Economic Development Agency, also at Department of Commerce, but MPPDC no longer has active funding with EDA leaving NOAA as MPPDC's federal cognizant agency for Indirect Cost agreements per 2CFR part 200 (Supercircular guidance).

5. Public Comment

MPPDC Vice Chairman Swartzwelder opened the meeting for public comments.

- (1) Thomas Feigum, Middlesex County citizen, spoke on economic development in the Middlesex County (Middle Peninsula).

With there being no other public comments, Vice Chairman Swartzwelder closed the public comments period.

**Note: All handouts distributed at meeting or emailed are added to the Commission Meeting folder.*

6. Demonstrating the Value and Building the Policy Architecture to Retain and Commoditize Forestland in the Chesapeake Bay Watershed: Eldon James, Rappahannock River Basin Commission

MPPDC Executive Director Lewis Lawrence said urban areas continue to face pollution problems within their watershed. Some areas are looking at ways, outside of their boundaries, to reduce problems and some areas have developed new policies and trends.

Mr. Eldon James, Jr., Rappahannock River Basin Commission (RRBC), said the goal of the Environmental Protection Agency Chesapeake Bay (EPACB) Program is to credit forestland retention actions by localities in the TMDL model and through regulatory and policy changes at the federal, state, and local levels. Forestland is being focused on because it is the best land cover to protect water quality. One of the goals of DEQ is to meet state water clean obligations while controlling local costs. Mr. James said the project partners of the Phase 1 TMDL project were DEQ, Virginia Department of Forestry, Rappahannock River Basin Commission, The Nature Conservancy, George Washington Regional Commission, and Virginia Water Resources Research Center.

Mr. James said the Phase 1 pilot study area was the George Washington Regional Commission. The project objectives were to provide information to EPA for consideration in 2017 TMDL model revisions, share findings with localities and state officials to inform land use planning and decision making, and conduct a literature review of forest types and attributes to evaluate spatial variability of water related ecosystem service values. Phase 1 healthy watershed findings could reduce BMP treatment costs needed to comply with Virginia's nutrient neutral stormwater regulations, while maximizing the ecosystem services provided by forests.

For the Phase 2 project, additional partners and collaborators will include the Pennsylvania Department of Conservation and Natural Resources, Virginia Department of Conservation and Recreation, Local Government Advisory Committee to the Chesapeake Bay Executive Council, and VCU Center for Environmental Studies. The goal for Phase 2 is to "work extensively through RRBC with local government officials within the Basin, as well as, Pennsylvania representatives to develop a tool box of criteria, incentives, etc. that could be used in land use policy and zoning situations to accurately identify and assign appropriate values to high conservation value forest lands."

Mr. James said the EPA and the US Endowment for Forestry and Communities have approved funding for Phase 2 provided the Commonwealth of Pennsylvania is included in the project. The Phase 2 plan is to divide the Rappahannock River Basin into three separate study areas: lower, middle, and upper basins because each area has different political, economic, environmental, and social perspectives. Separate discussions will happen in different areas of the basin.

Mr. Michael Chandler, Virginia Tech Land Use Education Program, spoke about:

- (1) Managing Land Use in Virginia—Comp plans are mandated by the state, must satisfy state intent and promote general welfare, and comp plans are not self-implementing.
- (2) Tools for Managing Growth/Land Use in Virginia—land use regulations, local spending and tax policies, land acquisition, voluntary land protection techniques, etc.
- (3) Land Use Regulations—agricultural zoning and forestry zoning, cultural/heritage zoning, cluster development/zoning, large lot zoning, overlay zoning, purchase of development right, transfer of development right, land evaluation and sit analysis, etc.
- (4) Land Acquisition—fee simple, purchase and lease/back, land banking, etc.
- (5) Voluntary Land Protection—land donations, land trusts, recognition/stewardship agreements, carbon sequestration credits, etc.

- (6) Needed Tools—developments of regional impact, fixed area ratio zoning, trading credit authority, environmental assessment chapter in comp plan, State designated areas of critical concern, etc.

Discussion was held regarding carbon sequestration credits, growth development, conservation easements, costs of forests, tidal wetlands, and pressure localities feel from state agencies regarding changes in their comp plans.

7. Preliminary Report from the OPD and Budget Committee

MPPDC Executive Director Lewis Lawrence said for fiscal year 2017, MPPDC staff has obtained funding commitments to fully fund the Commission's work program for the next fiscal year.

Mr. Lawrence said the Budget & OPD Committee offers a budget document and a PDC Service Center document which identifies the following service centers to be operated in FY17:

- (1) Agency Administration
- (2) Environmental Coastal Community Development
- (3) Transportation
- (4) Local Projects/Staff Support
- (5) Local/Regional Planning
- (6) Direct Constituent Services
- (7) Mandates
- (8) Emergency and Hazard Management
- (9) Blue/Green Economic Development Model

MPPDC Financial Director Beth Johnson said the Budget and Overall Program Design Committee met and reviewed a draft FY17 budget.

Mrs. Johnson reviewed the draft FY17 budget of Revenues and Expenses. The FY17 draft budget anticipates \$790,417.00 in revenues and \$727,201.49 in expenses.

MPPDC Staff explained the Commission's Compensation model. One question was asked about the Advertising and Promotion line item. Mrs. Johnson reviewed the base and potential salaries of staff and informed the Board that the advertising/promo line item refers to the TDM Rideshare program to include signs on Bay Transit buses and billboards.

MPPDC Vice Chairman Swartzwelder requested a motion to adopt the draft Recommended Overall Program Design and Budget for FY17. Jack Miller moved to adopt the FY17 MPPDC draft Recommended Overall Program Design and Budget. O J Cole seconded the motion; motion carried. Vice Chairman Swartzwelder requested all in favor by signifying Aye:

Dr. William Reay-Aye	O J Cole, Jr.-Aye
Michael Winebarger-Aye	Tim Hill-Aye
R. F. Bailey-Aye	Jack White-Aye
Tom Swartzwelder-Aye	Trudy Feigum-Aye
Dr. Ken Griffin-Aye	Jack Miller-Aye
David Hansen-Aye	Paul Kelley-Aye
Travis Moskalski-Aye	

8. Update on Middle Peninsula Economic Development Organization Status and GoVirginia

MPPDC Executive Director Lewis Lawrence said that GoVirginia is at a halt because Governor McAuliffe, House, and Senate are at odds regarding legality on the GoVirginia initiative.

Discussion was held regarding the GoVirginia regions. The Middle Peninsula needs to be part of a rural Coastal region to receive any benefit from this initiative. VAPDC recommended that the MP be included in a region that includes the Fredericksburg area and the Northern Neck.

9. Other Business

- (1) MPPDC Executive Director Lewis Lawrence distributed a copy of a letter that was addressed to Delegate Keith Hodges from Director Elizabeth Andres of the William & Mary Law School Virginia Coastal Policy Center (VCPC). The letter regards concerns surrounding the administration of Virginia's existing stormwater, erosion, sediment control, and Chesapeake Bay Preservation Act programs and examination of new solutions that work for the coastal communities and resources. The VCPC will conduct a study and analysis of existing programs and identified problems and suggest policy and/or legislative solutions. VCPC proposed five steps for the study and analysis (outlined in letter). VCPC's goal is to have the study and analysis completed no later than mid-November 2016.

10. Adjournment

MPPDC Vice Chairman Swartzwelder requested a motion to adjourn. Travis Moskalski moved that the MPPDC Board meeting be adjourned. Jack Miller seconded the motion; motion carried.

COPY TESTE:

(Secretary)

Project Financial Report

Middle Peninsula Planning District Commission

Run Date: 05/16/2016
 Run Time: 8:44:16 am
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Period Ending: 04/30/16

		Expenditures						
Code	Description	Budget	Curr Month	Project Total	Un/Over	% Budget	Revenues	Balance
30013	EE&CBG Project	3,894.00	30.73	3,647.08	246.92	93.66%	3,559.04	-88.04
30019	Urbanna Foundation	6,000.00	11.69	6,029.11	-29.11	100.49%	6,000.00	-29.11
30021	Mathews Comp Plan Upd	8,750.00	504.13	2,932.09	5,817.91	33.51%	2,427.96	-504.13
30022	Tappahannock Economic I	2,250.00	0.00	0.00	2,250.00	0.00%	0.00	0.00
30106	MPRJ Flash Freeze Study	90,000.00	0.20	89,885.91	114.09	99.87%	89,933.37	47.46
30108	Building Collaborative Co	34,275.00	2,382.82	36,538.79	-2,263.79	106.60%	31,975.00	-4,563.79
30109	Tidewater RC&D Staff Su	0.00	-1,099.76	7,817.59	-7,817.59	0.00%	7,666.51	-151.08
30170	MPBDP FY12 Staff Sup	13,830.00	139.56	16,803.18	-2,973.18	121.50%	18,916.02	2,112.84
30210	FY15 Transportation Dem	20,000.00	30.08	20,241.26	-241.26	101.21%	20,037.57	-203.69
30211	FY16 Transportation Dem	74,000.00	6,015.85	60,308.70	13,691.30	81.50%	66,882.19	6,573.49
30313	FY16 RTP	72,500.00	4,672.93	54,810.80	17,689.20	75.60%	35,548.67	-19,262.13
30420	Onsite Loan Management	118,932.85	655.06	120,770.57	-1,837.72	101.55%	123,739.79	2,969.22
30423	VCWRFR Onsite Fund	82,500.00	0.00	83,530.21	-1,030.21	101.25%	125,000.00	41,469.79
30424	2016 Septic Pumpout	28,600.00	3,986.36	6,738.48	21,861.52	23.56%	0.00	-6,738.48
30502	Water Supply Planning	111,805.89	0.00	111,805.89	0.00	100.00%	196,099.42	84,293.53
31002	GA Lobby FY09	18,247.75	0.00	18,247.75	0.00	100.00%	29,752.25	11,504.50
31201	AHMP Update 2014	130,010.00	3,330.31	113,537.07	16,472.93	87.33%	109,028.06	-4,509.01
31202	Emergency Planner	110,000.00	636.08	110,649.23	-649.23	100.59%	88,921.43	-21,727.80
31203	Emergency Planning 2016	154,500.00	12,881.46	42,118.94	112,381.06	27.26%	0.00	-42,118.94
32010	PAA Staff Support	7,000.00	559.48	5,764.79	1,235.21	82.35%	3,745.08	-2,019.71
32011	PAA Altruistic Giving	40,000.00	144.09	40,367.54	-367.54	100.92%	40,000.00	-367.54
32012	PAA Capt Sinclair Impr	39,977.00	75.55	40,436.14	-459.14	101.15%	39,977.00	-459.14
32013	DOF Maritime Forest Ca	2,535.00	-159.41	2,437.65	97.35	96.16%	1,274.58	-1,163.07
32014	Public Access Master Pla	80,000.00	5,912.38	40,594.90	39,405.10	50.74%	15,140.47	-25,454.43
32132	FY15 Coastal TA	43,602.00	0.00	43,661.39	-59.39	100.14%	44,755.21	1,093.82
32133	NFWF Living Shorelines I	222,267.00	315.33	185,003.79	37,263.21	83.23%	35,347.94	-149,655.85
32134	309 Ditching	40,000.00	48.51	40,468.81	-468.81	101.17%	40,000.00	-468.81
32135	Coastal TA FY16	60,000.00	4,412.93	36,521.84	23,478.16	60.87%	16,005.87	-20,515.97
32136	Mathews SLR Adapatati	54,687.00	3,262.06	25,180.80	29,506.20	46.05%	15,954.89	-9,225.91
32137	Mathews Ditch Map Data	60,524.00	3,327.49	19,596.26	40,927.74	32.38%	0.00	-19,596.26
32207	Working Waterfronts Pl	50,000.00	70.07	50,849.25	-849.25	101.70%	50,000.00	-849.25
32209	WWF State Plan	50,000.00	2,170.57	11,322.15	38,677.85	22.64%	0.00	-11,322.15
38016	FY16_Local_Programs	179,364.00	1,473.04	149,996.76	29,367.24	83.63%	187,682.84	37,686.08
Totals:		<u>2,010,051.49</u>	<u>55,789.59</u>	<u>1,598,614.72</u>	<u>411,436.77</u>	<u>79.53%</u>	<u>1,445,371.16</u>	<u>-153,243.56</u>

Balance Sheet by Category

Middle Peninsula Planning District Commission

Period Ending: 04/30/16
Format: 1 Board

Run Date: 5/16/16
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Assets:

Cash in Bank	496,941.22
Receivables	202,524.72
Property & Equipment	8,684.84
Deferred Outflows	29,567.00

Total Assets:

\$737,717.78

Liabilities:

Accounts Payable	4,983.41
VRA Loan Payables	128,814.87
Payroll Withholdings	-376.27
Accrued Leave	51,014.76
Deferred Inflows	31,258.00
Net Pension Liabilities	281,877.00
Cost Allocation Control	1,616.09

Total Liabilities:

\$499,187.86

Equity:

Local Initiatives/Information Resources	42,952.55
Economic Development	-2,602.07
Transportation Programs	-12,892.33
Emergency Management Projects	-63,846.74
Onsite Repair & Pumpout	37,703.42
Housing	-87.79
Coastal Community & Environmental	-212,530.13
Public Access Auth Programs	-27,474.14
Mandates	37,640.41
Temporarily Restricted	188,479.87
General Fund Balance	251,186.87

Total Equity:

\$238,529.92

Total Liabilities and Equity

\$737,717.78

Balance:

\$0.00

Agencywide R&E by Category

Middle Peninsula Planning District Commission

Run Date: 05/16/2016

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Period Ending: 04/30/16

Format: 1 Agencywide R&E

With Indirect Cost Detail

Code & Description	Budget	Current	YTD	Un/Ovr	% Bud
Revenues					
Local Match	0.00	0.00	92,549.70	-92,549.70	0.00%
Local Annual Dues	109,899.00	0.00	109,899.00	0.00	100.00%
Local Other Revenues	3,125.01	2,427.96	53,023.69	-49,898.68	1,696.75%
Local Other Organizations	44,000.00	0.00	87,186.50	-43,186.50	198.15%
State Revenues	135,171.00	37,740.00	140,653.38	-5,482.38	104.06%
Federal Revenues	675,436.00	58,651.26	191,232.33	484,203.67	28.31%
Miscellaneous Income	11,250.00	185.24	2,323.41	8,926.59	20.65%
RevolvingLoan Program Income	7,000.00	0.00	44,984.48	-37,984.48	642.64%
Revenues	985,881.01	99,004.46	721,852.49	264,028.52	73.22%
Expenses					
Personnel	457,530.00	43,557.50	457,939.97	-409.97	100.09%
Facilities	27,963.00	2,592.65	24,932.25	3,030.75	89.16%
Communications	4,050.00	345.55	3,760.42	289.58	92.85%
Equipment & Supplies	3,800.00	46.36	15,949.76	-12,149.76	419.73%
Travel	6,879.00	334.73	4,911.34	1,967.66	71.40%
Professional Development	14,950.00	1,682.83	15,397.18	-447.18	102.99%
Contractual	279,643.00	5,005.00	262,711.28	16,931.72	93.95%
Miscellaneous	53,156.00	2,225.00	44,837.43	8,318.57	84.35%
Regional Share	0.00	0.00	92,549.70	-92,549.70	0.00%
Expenses	847,971.00	55,789.62	922,989.33	-75,018.33	108.85%
Agency Balance	137,910.01	43,214.84	-201,136.84		

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Middle Peninsula Planning District Commission



MPPDC General Fact Sheet

WHAT IS MPPDC?

The Middle Peninsula Planning District Commission (MPPDC) was established pursuant to the Virginia Area Development Act (Title 15.1, Chapter 34, Sections 15.1-1400, et seq., Code of Virginia (1950) as amended) and by joint resolutions of the governing bodies of its constituent member jurisdictions.

The "MPPDC" describes the geographic section of Virginia which encompasses the Counties of Essex, Gloucester, King and Queen, King William, Mathews and Middlesex and the Towns of Tappahannock, Urbanna and West Point.

BACKGROUND

The Agreement to organize a Planning District Commission was made on January 31, 1972, by and between the government subdivisions as authorized by the Virginia Area Development Act.

WHAT DOES MPPDC DO?

The purpose of the Commission is to promote the orderly and efficient development of the physical, social, and economic elements of the Planning District by planning and encouraging and assisting governmental subdivisions to plan for the future.

HOW ARE DECISIONS MADE AT MPPDC?

Decision-making occurs through the Middle Peninsula Planning District Commission, a governing body comprised of elected officials, citizens, and chief administrative officers representing the six counties and three towns in the region.

QUICK FACTS

Region at Glance

- Six Counties: Essex, Gloucester, King & Queen, King William, Mathews and Middlesex
- Three Towns: West Point, Urbanna, and Tappahannock
- 1,387 Square Miles
- 1,055 Miles of Shoreline

➤ 888,064 Acres of Land

➤ 90,826 People

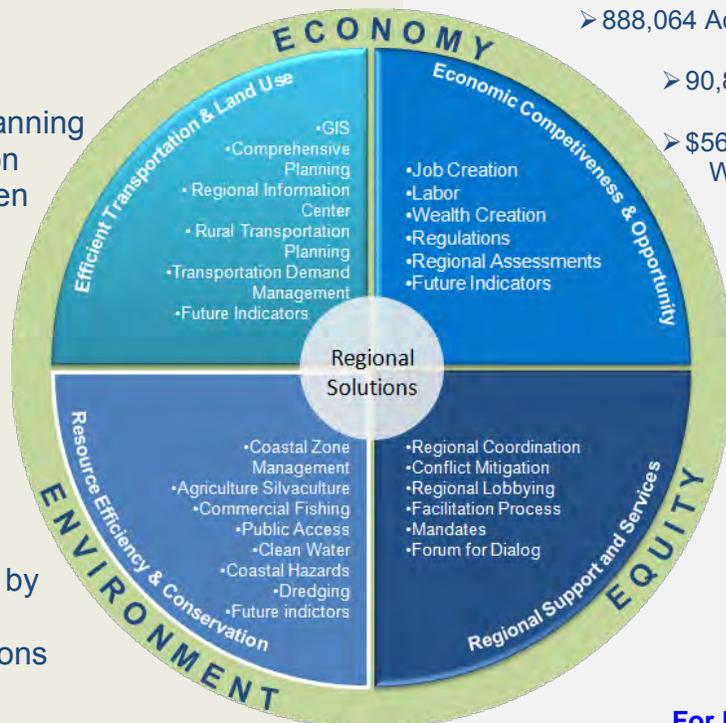
➤ \$567 Average Weekly Wage (State=\$952)

➤ 71% Out Commute Rate

By the Numbers

➤ 1.1% Total State Population

➤ \$50,001 Median Household Income



For More Information:

MPPDC
P.O. Box 286
Saluda Professional Center
125 Bowden Street
Saluda, Virginia 23149
Phone: 804-758-2311

Please visit the MPPDC website at:

www.mppdc.com

Regional Profile:

All data is from Census 2000 and Census 2010 unless otherwise stated

Population Trends				Median Household Income and Unemployment Rate ¹			
Locality	Total Population		Population Growth from 2000-2010	Median Income Estimates		Unemployment Rate Estimates	
	2000	2010		2006-2010	2007-2011	2006-2010	2007-2011
Essex	9,989	11,151	12%	\$46,235	\$44,581	9.0%	8.2%
Gloucester	34,780	36,858	6%	\$58,389	\$60,269	6.5%	5.9%
King & Queen	6,630	6,945	5%	\$44,442	\$48,170	8.6%	7.4%
King William	13,146	15,935	21%	\$64,964	\$64,982	7.3%	6.7%
Mathews	9,207	8,978	-2%	\$47,435	\$54,118	5.9%	6.0%
Middlesex	9,932	10,959	10%	\$50,207	\$53,615	7.4%	6.4%
Town of Tappahannock	2,138	2,375	11.1%	\$39,149	\$35,313	6.6%	7.6%
Town of Urbanna	543	476	-12.3%	\$44,813	\$45,682	1.5%	4.5%
Town of West Point	2,866	3,306	15.4%	\$51,979	\$52,768	7.4%	9.5%
Region Total	83,684	90,826	9%	\$49,735	\$51,055	7.6%	6.5%

Race in the Middle Peninsula												
Locality	White			Black			Asian			Other		
	2000	2010	Percent Change	2000	2010	Percent Change	2000	2010	Percent Change	2000	2010	Percent Change
Essex	5,790	6,370	10%	3,900	4,247	9%	81	86	6%	218	448	106%
Gloucester	30,148	32,149	7%	3,585	3,197	-11%	240	286	19%	807	1,226	52%
King and Queen	4,059	4,663	15%	2,365	1,975	-16%	18	17	-6%	188	290	54%
King William	9,703	12,297	27%	2,999	2,819	-6%	48	118	146%	396	701	77%
Mathews	8,038	7,898	-2%	1,036	823	-21%	17	31	82%	116	226	95%
Middlesex	7,797	8,680	11%	1,999	1,978	-1%	12	37	208%	124	264	113%
Regional Total	65,535	72,057	10%	15,884	15,039	-5%	416	575	38%	1,849	3,155	71%

FY15 Locality Budget Data							
Locality	Raise %	Compensation Notes	Real Property Increase	Real Property Rate	Personal Property Increase	Personal Property Rate	Other
Essex	2%		\$0.02	\$0.86	\$0.25	\$3.75	\$35/\$25 Vehicle tax
Gloucester	3%	Bonus for lower scale employees only	None	\$0.65	None	\$2.95	
King and Queen	0%		None	\$0.54	None	\$3.94	
King William	2%		\$0.03	\$0.82	None	\$9.65	
Mathews	2%		\$0.07	\$0.54	\$0.05	\$3.70	
Middlesex	2%	Step Inc. w/ evaluation; No COLA	\$0.05	\$0.53	None	\$3.50	

¹ Data from the Bureau of Labor Statistics Local Area Unemployment data & the American Community Survey 5-year Estimates

MIDDLE PENINSULA PLANNING DISTRICT COMMISSION

Staff Activities Service Summary of Regional Progress

Locality	Core Services Administered by the MPPDC							
	Information Resources/ Assistance	Coastal Community Development/ Environmental	Transportation	Onsite Repair and Pumpout	Economic Development	Local Initiatives	Housing	Emergency Management
Region-wide	✓	✓	✓	✓	✓	✓		✓
Essex		✓		✓	✓	✓		
Gloucester		✓		✓	✓			
King & Queen		✓		✓		✓		
King William	✓			✓				
Mathews		✓		✓		✓		
Middlesex		✓	✓			✓		
Town of Tappahannock						✓		
Town of West Point								
Town of Urbanna								
Other		✓		✓				

Report on Mandated Initiatives

Locality	Water Supply Plan Support Staff: Lewie Lawrence Start Date: 7/2008 Completion Date: 6/2011		All-Hazards Mitigation Plan Update Support Staff: Jackie Rickards Start Date: 1/2014 Completion Date: 12/2016	
	<i>Participating</i>	<i>Current Status</i>	<i>Participating</i>	<i>Current Status</i>
	Essex	✓	Found Compliant	✓
Gloucester	NA	NA	✓	For local consideration
King & Queen	✓	Found Compliant	✓	For local consideration
King William	✓	Found Compliant	✓	For local consideration
Mathews	✓	Found Compliant	✓	For local consideration
Middlesex	✓	Found Compliant	✓	For local consideration
Town of Tappahannock	✓	Found Compliant	✓	For local consideration
Town of West Point	✓	Found Compliant	✓	For local consideration
Town of Urbanna	✓	Found Compliant	✓	For local consideration

Opportunities Identified to Implement Commission Priorities

Service Center	Project Title and Description	Funding Requested	Status
Transportation	DRPT – Update Long Range TDM Plan	\$16,000	Funded
Environmental	CZM –FY165 Coastal Technical Assistance	\$30,000	Funded
Environmental	NFWF TA Service Provider	n/a	Approved
Economic Dev	DHCD – BCC – Middle Peninsula Regional Economic Development Organization	\$18,750	Funded
Economic Dev	VA Coop. Ext. – SET Grant – Capacity Building for Economic Development	n/a	Awarded
Environmental	CZM – Flooding and Sea Level Rise	\$14,792	Funded
Environmental	CZM – MP Public Access Master Plan	\$40,000	Funded
Environmental	CZM – Ditch Mapping Database – Mathews	\$60,524	Funded
Environmental	CZM – Working Waterfronts – State Plan	\$50,000	Funded
Environmental	VDOF -Virginia Trees for Clean Water – Capt Sinclair Maritime Forest Edge Demo Garden	\$1,350	Funded
Environmental	DEQ/VRA – Virginia Water Facilities Revolving Fund	\$200,000	Funded
Economic Dev	USDA – Farmers Market Sustainability Initiative	\$77,537	Not Funded
Environmental	USDA Rural Development Housing Preservation Grant – Septic Repairs	\$106,800	Not Funded
Emergency Mgmt	VDEM – Homeland Security Amateur Radio Coordination Workshops	\$25,000	Funded
Emergency Mgmt	VDEM – Homeland Security Regional Emergency Planner	\$52,500	Funded
Emergency Mgmt	VDEM – Homeland Security Regional Shelter Partner List and MOUs	\$25,000	Funded
Emergency Mgmt	VDEM – Homeland Security THIRA for Mathews and Middlesex	\$21,500	Funded
Emergency Mgmt	DCJS - :“Sink or Swim” Drug Abuse Prevention Marketing Campaign	\$75,000	Not Funded
Emergency Mgmt	VDEM – Homeland Security THIRA for King William, King and Queen and Essex	\$31,000	Funded
Emergency Mgmt	Dominion Foundation – Prescription & Drug Abuse – Habitat for Humanity Glouc/Mat	\$49,735	Not Funded
Environmental	DEQ – Septic Pumpout	\$28,600	Funded at reduced rate
Environmental	DEQ – NPS Septic Repair grants to homeowners	\$200,000	Funded
Environmental	CZM – ECO PAA Dragon Run	\$40,000	Approved
Environmental	CZM – Regulations	\$40,000	Not Funded
Environmental	CZM – Coastal Technical Assistance – FY17	\$30,000	Submitted
Environmental	NFWF – PAA Living Shoreline Oyster Bag Sills & Monitoring (VIMS)	\$96,637	Submitted
Economic Dev	NFWF – Economic Leverage of Blue & Green Assets in MP	\$33,000	Submitted
Economic Dev	NFWF – Aquaculture Business Park and Oyster Hatchery	\$538,536	Submitted
MPCBPAA	VEE – Land Acquisition Assistance	\$12,000	Funded
MPCBPAA	Chesapeake Bay Restoration Fund – Education & Marketing for Land Donations	\$1500	Funded

MPPDC ACRONYMS

ACH	Automated Clearing House	NFWF	National Fish and Wildlife Foundation
AFG	Assistance to Firefighters Grants	NOAA	National Oceanic and Atmospheric Administration
AFID	Agricultural and Forestry Industries Development	NPS	National Park Services
AHMP	All Hazards Mitigation Plan	OCVA	Oyster Company of Virginia
BCC	Building Collaborative Communities Project	OLGA	On-line Grant Administration
BOS	Board of Supervisors	PAA	Public Access Authority
CBPA	Chesapeake Bay Preservation Area	RBEG	Rural Business Enterprise Grant
CBSF	Chesapeake Bay Stewardship Fund	RBOG	Rural Business Opportunity Grant
CDBG	Community Development Block Grant	RFP	Request for Proposal
CEDS	Comprehensive Economic Development Strategy	RLF	Revolving Loan Fund
CIP	Capital Improvement Plan	RTF	Rural Transportation Planning
COI	Conflict of Interest	SERCAP	Southeast Rural Community Assistance Project
CRS	Credit Rating System	SHSG	State Homeland Security Grant
CZMP	Coastal Zone Management Program	SWCD	Soil and Water Conservation District
DEQ	Department of Environmental Quality	SWRP	State Water Resource Plan
DGIF	Department of Game and Inland Fisheries	THIRA	Threat & Hazard Identification & Risk Assessment
DHR	Department of Historic Resources	TIF	Tax Increment Financing
DHCD	Department of Housing and Community Development	TMDL	Total Maximum Daily Loads
DMME	Department of Mines Minerals and Energy	USDA	U.S. Department of Agriculture
DOC	Department of Corrections	USFWS	U.S. Fish and Wildlife Service
DOE	Department of Energy	VAPA	Virginia Planning Association
DRPT	Department of Rail and Public Transportation	VAPDC	Virginia Association of Planning District Commissions
EDA	Economic Development Administration	VAZO	Virginia Association of Zoning Officials
EDO	Economic Development Organization	VCP	Virginia Coastal Program
EECBG	Energy Efficiency and Conservation Block Grant	VCZMP	Virginia Coastal Zone Management Program
EOC	Emergency Operation Center	VCWRLF	Virginia Clean Water Revolving Loan Fund
EPA	Environmental Protection Agency	VDEM	Virginia Department of Emergency Management
FEMA	Federal Emergency Management Agency	VDH	Virginia Department of Health
Fracking	Hydraulic Fracturing	VDOT	Virginia Department of Transportation
GIS	Geographic Information System	VDMME	Virginia Department of Mines, Minerals, and Energy
HAM	Amateur Radio	VEE	Virginia Environmental Endowment
HRPDC	Hampton Roads Planning District Commission	Vertical Assets	"Towers or other structures that hold cell, broadband and other equipment"
LGA	Local Government Administrators	VHB	Vanasse Hangen Brustlin
LPT	Local Planning Team	VIMS	Virginia Institute of Marine Science
LSIP	Living Shoreline Incentive Program	VMRC	Virginia Marine Resources Commission
MOU	Memorandum of Understanding	VOP	Virginia Outdoors Plan
MPBA	Middle Peninsula Broadband Authority	VRA	Virginia Resources Authority
MPCBPAA	Middle Peninsula Chesapeake Bay Public Access Authority	VASG	Virginia Sea Grant
MPRSC	Middle Peninsula Regional Security Center	VSMP	Virginia Stormwater Management Program
NHD	Natural Heritage Data	VTA	Virginia Transit Association
NIMS	National Incident Management System		

MPPDC ACRONYMS (Continued)

VWP	Virginia Water Protection
VWWR	Virginia Water Withdrawal Reporting
WIP	Watershed Implementation Plan
WQIF	Water Quality Improvement Fund

Middle Peninsula Planning District Commission
Executive Director's Report of Regional Progress
May 16, 2016

MPPDC: Membership, Appointments, Committee Assignments, and Networks

Coastal Policy Team (CPT) - The CPT, whose members and alternates represent the Virginia Coastal Zone Management Program's key partners and eight planning district commissions, provides a forum for discussion and resolution of cross-cutting coastal resource management issues. Members serve on the team at the discretion of their agency or planning district commission director. The CPT recommends funding levels to the DEQ Director for coastal zone management projects. (MPPDC Staff 13 years +)

Congressman Robert Wittman's Fisheries Advisory Committee and Environmental Advisory Committee (MPPDC Staff 6 years +)

Virginia Sea Grant Program External Advisory Committee (EAC): The EAC provides stakeholder input on the strategic planning process, the research proposal review process, and on Commonwealth-wide trends and needs. The EAC is a diverse group of end-users including representatives from state agencies, the education community, coastal planning and management, the private sector, and NGOs. (MPPDC Staff 7 years+)

General Assembly Directed Study Panel: Aquaculture production activities; authority of local governments (MPPDC Staff- current)

The Association for Commuter Transportation (ACT) (Telework Council Secretary): ACT is the premier association for professionals and organizations whose focus is the delivery of commuting options and solutions for an efficient transportation system. The Telework Council is concerned with promoting telework and providing telework information and technical assistance to employers (MPPDC Staff 8 years+)

Middle Peninsula Northern Neck Coordinated Human Services Mobility Committee: provides direction for a unified comprehensive strategy for transportation service delivery in the Middle Peninsula and Northern Neck Planning Districts focused on unmet transportation needs of seniors, people with disabilities, and people with low incomes. (MPPDC Staff 10 years)

The National Working Waterfront Networks- Outreach and Education committee: Provides education and outreach on national, state and local matters related to the preservation of working waterfronts.

The Coastal Society - The Coastal Society is an organization of private sector, academic, and government professionals and students. The Society is dedicated to actively addressing emerging coastal issues by fostering dialogue, forging partnerships, and promoting communications and education. (MPPDC staff serves as a Director)

Bio Solid-Industrial Residual Regulatory Advisory Panel – The purpose of this panel is the development of regulatory amendments needed to implement the provisions of House Bill 1364 and Senate Bill 1413 related to fees for the land application of industrial wastes and reimbursement for compliance monitoring conducted by local governments

Hurricane Evacuation Coordination Workgroup - The Hurricane Evacuation Coordination Workgroup is comprised of state and local emergency representatives tasked with finding solutions to fill in the gaps in the Commonwealth's and Locality's plans to respond to a Major Hurricane Evacuation.

Shelter Location Identification Subcommittee of the Hurricane Evacuation Coordination Workgroup -local and state experts tasked with identifying state and local shelter locations that can meet the needs of individuals with access and functional needs. A recent federal court ruling indicates that prior knowledge of shelter locations allows for more complete personal preparedness planning

Shelter Staffing Subcommittee of the Hurricane Evacuation Coordination Workgroup -local and state experts tasked with recommending solutions to alleviate staffing limitations in emergency shelters

Living Shorelines Funding VCWRLF Workgroup – The purpose of this workgroup is to formulate program authorized by General Assembly to establish a revolving loan fund to encourage installation of living shorelines.

Stormwater Advisory Group – DEQ stakeholder process to consider ways to streamline and consolidate current Stormwater and erosion and sediment control programs to achieve greater consistency and efficiency while protecting the environment and identify statutory changes prior to 2016 GA session.

Eastern Virginia Groundwater Management Advisory Committee (EVGMAC) Workgroup #2B – EVGMAC is charged with assisting the State Water Commission and DEQ in developing, revising and implementing a management strategy for groundwater in Eastern Virginia Groundwater Management Area. Group #2B will identify trading options and programs used in other states; evaluate how trading programs might help with future growth and development, and individual and regional solutions; and evaluate feasibility, data needs, cost and possible participants.

MPPDC Staff and Contact Information

Executive Director: Lewis Lawrence

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Programs: *Coastal Zone Technical Assistance, Local Initiatives, Public Access Authority*

Finance Director: Beth Johnson

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Programs: *Commuter/ Employer Transportation Services, Septic Repair & Pumpout Assistance, Revolving Loan Programs Administration, PDC Finance & Grants Administration, PAA staff support, PAA improvements*

Chief of Community Planning: Marquitrice Mangham

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Programs: *Environmental Programs, Graphic Arts*

Secretary: Rose Lewis

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Programs: *Septic Pumpout Assistance, Commuter Transportation Customer Service, Facilities Scheduling*

Project 30502 Water Supply Planning

9 VAC 25-780 establishes a planning process and criteria that all local governments will use in the development of local or regional water plans. The plan will be reviewed by the Department of Environmental Quality and a determination will be made by the State Water Control Board on whether the plan complies with this regulation. Within five years of a compliance determination by the board, the plan will be reviewed to assess adequacy and any significant changes will require the submission of an amended plan and review by the board. All local programs will be reviewed, revised, and resubmitted to the Department of Environmental Quality every 10 years after the last approval. The jurisdictions of Essex, King and Queen, King William, Mathews, Middlesex, Tappahannock, Urbanna and West Point opted to prepare a regional plan with assistance from Middle Peninsula Planning District Commission staff and EEE Consulting, an environmental consulting firm. The Regional Plan was completed and submitted to the Virginia Department of Environmental Quality for compliance review by the November 2, 2011 deadline for Regional Plan submission.

Project 31201 Middle Peninsula All-Hazards Mitigation Plan Update

As a mandated requirement of the Disaster Mitigation Act of 2000, the 2016 All Hazards Mitigation Plan Update is designed to update the 2011 Middle Peninsula All Hazards Mitigation Plan (AHMP). The plan will address several natural hazards, including hurricanes, winter storms, tornadoes, coastal flooding, coastal/shoreline erosion, sea level rise, winter storms, wildfire, riverine flooding, wind, dam failures, drought, lightning, earthquakes, shrink-swell soils, extreme cold, extreme heat, landslides, land subsidence/karst, tsunami, and volcanoes.

- Below is an updated timeline of the remainder of the AHMP Update project. The checked boxes indicate that the tasks have been completed:
 - 12/4/2015 – Finish Draft of Report
 - 12/15/2015 – Committee finishes plan review; MPPDC makes changes
 - 12/16/2015 - Send final draft to VDEM for a 30 day review
 - 12/16/2015 – 1/14/2016 – Public Comment Period; MPPDC staff posts draft on MPPDC website and sends copies of draft to local libraries
 - 1/5/2016 – Public Meeting in MPPDC Boardroom, Saluda, VA
 - 1/6/2016 – Public Meeting in King & Queen Library Branch, St. Stephen’s Church, VA
 - 1/15/2016 - MPPDC staff will collect public comments and send to Steering Committee.
 - 1/26/2016 - MPPDC staff will also host a phone conference to review:
 - Public comments and gather feedback.
 - Gather dates from localities regarding when presentations to BOS and/or public outreach will be given.
 - MPPDC staff will make recommended changes.
 - ✓ 1/29/2016 – 3/30/2016 - MPPDC staff will send final plan to FEMA for a 60 day review. During this time localities should consider hosting public outreach meetings and/or presenting the plan to the BOS. VDEM recommends that each locality adopt the plan after FEMA reviews and approves the plan. Therefore adoption of this plan will most likely take place in April or May 2016. Please note that the 2010 Middle Peninsula Natural Hazards Plan expires May 2016 therefore the 2016 plan should be adopted no later than May 2016 in order to stay compliant with the National Flood Insurance Program.

- As the All Hazards Mitigation Plan (AHMP) is updated, Committee members from Middle Peninsula localities will have the opportunity to review the updates and provide feedback. Below is table that depicts the plan’s sections, section feedback from localities is due, and the localities that have provided feedback (marked with an “X”).

SECTION	TITLE	Status	Counties						Towns		
			Essex	Mathews	Middlesex	King William	King & Queen	Gloucester	West Point	Urbanna	Tappahannock
1	Intro	Completed 3/24/2015	X	X	X	X	X	X	X	X	X
2	Planning Process	Completed 12/1/2015	X	X	X	X	X	X	X	X	X
3	Community Profile	Completed 2/20/2015	X	X	X	X	X	X	X	X	X
4	Hazard Identification	Completed 6/19/2015	X	X	X	X	X	X	X	X	X
5	Risk Assessment Analysis (HAZUS)	Completed 5/27/2015	X	X	X	X	X	X	X	X	X
6	Capability Assessment	Completed 12/7/2015	X	X	X	X	X	X	X	X	X
7	Review of 2010 Strategies	Completed 12/7/2015	X	X	X	X	X	X	X	X	X
8	Mitigation Goals, Objects and Strategies	Completed 7/22/2015	X	X	X	X	X	X	X	X	X
9	Implementation Plan	Completed 12/7/2015	X	X	X	X	X	X	X	X	X
10	Plan Adoption	Completed 11/09/2015	X	X	X	X	X	X	X	X	X
11	Plan Maintenance	Completed 11/23/2015	X	X	X	X	X	X	X	X	X
12	Appendices	Completed 12/07/2015	X	X	X	X	X	X	X	X	X

INFORMATION RESOURCES/ASSISTANCE

Services to provide critical assessment and thinking.....

- Updated www.mppdc.com website – meeting notices, reports, news releases, public comment notices.
- Consulted with Bret Schardein, Director of Community Development King William County, regarding access to All Hazards Mitigation Plan Update final document. Provided Mr. Schardein with a copy of the Plan.

COASTAL COMMUNITY DEVELOPMENT/ ENVIRONMENTAL

Funding – VDEQ, VIMS, VDCR, local match from MPPDC General Fund & partners

Project 32010 Staff Support to Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA)
Middle Peninsula Chesapeake Bay Public Access Authority Special Project – Support of Executive Order 23, Goal 8 Coastal Management Coordination Public Access: Continue implementation of adopted annual work program, including identifying land, either owned by the Commonwealth or private holdings that can be

secured for use by the general public as a public access site; researching and determining ownership of all identified sites; determining appropriate public use levels of identified access sites; developing appropriate mechanism for transferring title of Commonwealth or private holdings to the Authority; developing appropriate acquisition and site management plan. This Program allows the Authority to function by supporting the individual projects and operations of the Authority, as well as, by responding to daily requests for assistance from local government staff.

- Prepared vouchers, processed A/P, reconciled bank statements. Prepared monthly financial statements.
- Discussed draft FY17 budget and work program with MPCBPAA Board.

Project 32013 PAA Maritime Forest Edge Demonstration Garden

The Captain Sinclair's Recreational Area, 100 acres with approximately 1 mile of waterfront on the Severn River in Gloucester County, VA, was a gift to the Middle Peninsula Chesapeake Bay Public Access Authority. The MPCBPAA is partnering with the Middle Peninsula Planning District Commission (MPPDC) to develop an overall use plan for the property compatible with the existing natural coastal landscape. An area of approximately 14,000 square feet to the northwest of the main house has been delineated by the Army Corps of Engineers as nontidal wetlands. This area is adjacent to the area utilized for parking. This project funded by the Virginia Department of Forestry will provide protection for that sensitive area by converting the mowed lawn/ parking area into a demonstration Maritime Forest Edge garden. Approximately 400 seedlings will be planted in the area to provide a small Maritime Forest Edge demonstration garden for viewing by visitors to the site.

- Prepared and submitted final report and reimbursement request.

Project 32014 Middle Peninsula Public Access Master Plan

MPPDC staff will develop a Middle Peninsula Public Access Master Plan. This plan will help Middle Peninsula localities and the general public to understand local and regional public access accomplishments and current policies, and the tools and policies that have been implemented. This plan will also provide as clear direction for the future of public access in the region.

- Reviewed and analyzed Middlesex County Public Access Survey responses. Developed a summary of the survey results and provided a presentation to Middlesex County staff for review.

Project 32132/32135 Virginia Coastal Zone Management Program

This project provides ongoing support to member localities of the Planning District Commission and other stakeholders committed to improving community development and coastal management within the coastal zone.

- Received an update from Elizabeth Andrews, Professor of the Practice and Director Virginia Coastal Policy Center, concerning her conversation with Melanie Davenport, Head of the DEQ Water Division, concerning the status of DEQ's non-tidal wetland mitigation requirements. Onsite mitigation used to be the preference in VA and nationally; the EPA & USACOE switched their framework when they issued the 2008 Federal Mitigation Rule, making offsite mitigation the preferred approach; DEQ has been following that federal Rule via guidance since then; and the State Water Control Board is now in the midst of amending the VWP Regulations to reflect that federal approach. Once this is completed, the ability to use off-site mitigation will be more *generally understood*.
- Consulted with Tom Swartzwelder King and Queen County Administrator and Donna Sprouse, Assistant Zoning Administrator concerning stormwater drainage project grant application issues under

the DEQ WQIF funding RFP. Also discussed the applicability for a NFWF funding proposal for the same project.

- Consulted with Ed Hail, local historian from Essex County interested in locating a Captain John Smith Capture Route sign on the Brown Tract located in Essex County. Mr. Hail will visit the site and look for an appropriate location for sign placement.
- Discussed commoditizing blue and green infrastructure with Eldon James, Rappahannock River Basin Commission. Discussed the need for inter-basin transfer of credits for offsets using tools such as transfer of developments rights or density transfer concepts. Discussed parameter and limitation to private transactions and approach to generate revenue for local governments.
- Discussed non-tidal wetland delineation questions with Keith Goodwin, Army Corp of Engineers for the original plantation road servicing the Lands End Plantation which parallels the existing entry road to the Captain Sinclair's Manor House located in Gloucester.
- Convened a meeting with Congressman Rob Wittman to discuss new approaches for economic leveraging of blue and green assets found across the Middle Peninsula. Discussed approaches and opportunities for future economic development.
- Consulted with Trent Funkhouser, Economic Development Director for Essex County concerning funding for dredging and appropriate contacts with the Army Corps of Engineers to discuss planning and design services available.
- Consulted with Jack White, Mathews County Board of Supervisors concerning living shoreline revolving loan funds and technical assistance/ design service needs for a possible living shoreline public private project in Mathews. Provided contact information for Scot Hardaway, Director of VIMS Shoreline Studies program.
- Discussed living shoreline funding and tax exempt designation afforded under Delegate Keith Hodges HB 526 with Chris Davis, owner of Reddy Reef.
- Attended the Virginia Coastal PDC committee meeting held at HRPDC. Speakers included Susan Conner, Chief Planning and Policy Branch of US Army Corps Engineers (ACE) concerning the status of dredging funding and other services provided by ACE.
- Submitted a proposal to NFWF for a living shoreline project to construct oyster bag sills at MPCBPAA owned sites in Gloucester and Mathews counties at the behest of Donna Milligan, VIMS Shoreline Studies Program.

Project 32133 NFWF Living Shorelines

MPPDC received a grant from the National Fish and Wildlife Foundation (NFWF) to facilitate citizen-based resource stewardship to enhance coastal resilience and reduce vulnerability to growing risks from coastal storms, sea level rise, flooding and other threats to shorelines by encouraging Middle Peninsula waterfront homeowners, through access to low interest loans and/or grants and through education about living shorelines, to make informed decisions to install living shorelines to protect waterfront properties. The main emphasis of the project will be to design and implement a Living Shoreline Incentive Program (LSIP) to provide loans and/or grants to homeowners to install living shorelines on suitable waterfront properties. The project also includes the design of a Shoreline Management Plan (SMP) for the entire Captain Sinclair's Recreational Area shoreline and the design and installation of one lower Chesapeake Bay public waterfront demonstration project

to provide consumers easily accessible publically owned living shoreline examples to inform their decision making. The investment of effort and resources in producing a Shoreline Management Plan will yield substantial benefits in facilitating decision-making on a variety of potential issues and uses of the site. A Living Shorelines Education Program will be developed to educate the public about the benefits of living shorelines. The Captains Sinclair's Recreation area site boasts an 8,000 sq. ft. waterfront home within 200 feet of the demonstration site that will house the Living Shorelines Education Program.

- Submitted reimbursement request to NFWF for construction expenses.

Project 32136 Coastal Zone Management Sea Level Rise

The purpose of this project is to provide planning options to be considered by rural coastal local governments in the Middle Peninsula to assist with mitigating the impacts of flooding and sea level rise in coastal communities. Using Mathews County as the pilot location, the project will identify and explore planning and development techniques that may be implemented at the local level to encourage and steer development to properties located outside of high risk flood hazard areas. The project will also provide information on how local government-acquired land may be leveraged to encourage more elevations or relocations by commoditizing protected lands in high hazard areas.

- Reviewed Mathews County Zoning and Subdivision Ordinances for existing language and provisions that manage development in flood-prone areas.

Project 32137 Mathews Ditch Map Database

Building on the NFWF Ditching project in Mathews County, MPPDC staff in contract with Draper Aden Associations will continue reducing the information gap between stakeholders and those tasked with repairing the drainage system. First, maps will be created to identify ditch locations in the target areas using associated parcel information using Mathews County tax parcel maps overlapped with aerial imagery to provide information on ditch and channel locations. Additionally Virginia Coastal Policy Clinic will conduct research, compile deeds and easement documents that identify ditch ownership responsibility, easement rights and other interests in the roadside and outfall ditches. Finally a database will be designed for the organization and illustration of legal records for property owners of failing ditches.

- Consulted with Roy Hoagland, Director for the Virginia Coastal Policy Center concerning the final report on legal work completed to date on the selected target area. The report continues to make its way through final review.

Project 32209 Virginia Working Waterfront Master Plan and 2nd Virginia Working Waterfront Summit

MPPDC staff will work with the Northern Neck PDC and Hampton Roads PDC to develop a Virginia Working Waterfronts coastal zone-wide plan that will serve to guide communities in protecting, restoring and enhancing their water-dependent commercial and recreational activities.

- Collected chapters from the Accomack-Northampton Planning District Commission, the Northern Neck Planning District Commission and the Hampton Roads Planning District Commission. These chapters were passed to Neal Barber for inclusion into the Virginia Working Waterfront Master Plan.
- Meet with Neal Barber to discuss the conclusion of the Virginia Working Waterfront Master Plan as well as the audience for this plan.
- Developed a cover page and table of contents template for the Virginia Working Waterfront Master Plan.

- Project timeline:

Timeline for the Development of the Virginia Working Waterfronts (WWF) Plan and the 2 nd WWF Summit in 2016.											
January	February	March	April	May	June	July	August	September	October	November	December
PDC's will work on their Chapter for the WWF Plan Don will work on the State of the Commonwealth Chapter for the Plan			<ul style="list-style-type: none"> • Neal will assemble the WWF Plan and write the plan's introduction, conclusion as well as chapter on working waterfront resiliency. • PDCs will begin to share individual chapters to their Commission and participating localities. 	PDCs will share the completed Virginia WWF Plan with Commissions and participating localities. Seek plan adoption by the Commission and recommend that localities adopt plan as well.			Slip month if time is needed.	Plan Symposium – secure sponsors and speakers		VCPC will host the Symposium the first week of Dec	

- Continued to work on drafting a resolution for local governments, PDCs, and possibly the Virginia General Assembly to consider the adoption of the Virginia Working Waterfront Master Plan.
- Consulted with Elizabeth Andrews, Co-Director of the Coastal Policy Law Center at the College of William and Mary, concerning the Fall 2016 Virginia Working Waterfront Conference and the possible focus on underserved working waterfront communities as a focus area.
- Consulted with Curt Smith, Director of Planning Accomack-Northampton PDC, concerning the impacts of stormwater regulations on Working Waterfronts and the inability of watermen to build the necessary seafood facilities to accommodate business needs.

TRANSPORTATION

Funding – VDRPT, VDOT, local match from MPPDC General Fund

Project 30211 Transportation Demand Management (TDM) Services

This program assists local commuters and employers with transportation issues. The main emphasis is on lowering the number of single occupancy vehicle commutes within and from the Middle Peninsula region through marketing and promotion of the program through local media and provision of ride matching services to commuters. In addition MPPDC staff will update the TDM Six Year Plan with additional funding from Virginia Department of Rail and Public Transportation (DRPT).

- Updated website – www.midpenrideshare.org.
- Convened ACT Telework Council Meeting via conference call. Discussed ACT International Conference, CUTR/ACT webinar, infographic, National Telework Week.
- Consulted with Chris Arabia, DRPT, regarding VTA Conference.
- Received online application for ridematching services from White Stone resident commuting to Glen Allen. Matched with Saluda resident. Contact information sent to both parties.

- Current commuter database – 140

Project 30312 Rural Transportation Planning

This program provides rural transportation planning services through the Rural Transportation Planning Work Program which outlines specific tasks and goals to guide the rural planning of transportation services.

- Convened Local Planners meeting on May 18th at the Middle Peninsula PDC office. Topics of discussion included potential projects for the upcoming HB2 application cycle, project prioritization, and MPPDC's new data collection and analysis software.
- Attended the VTrans Needs Assessment Forum in Richmond. The Office of Intermodal Planning and Investment hosted the forum to hear local input on priority transportation needs and recommendations to guide transportation decisions. The document is used as a part of the HB2 transportation project eligibility and prioritization process.
- Registered for NADO's Rural Transportation Conference in Chattanooga, TN June 12-15. Scheduled to attend workshops on GIS and transportation planning and analysis and land use planning tools linking rural development and transportation.
- Contacted Adam Campbell and Darrel Johnson, VDOT, regarding formatting and submitting prioritization list of local projects. Researched MPPDC's past year submittals and prioritization documents submitted by other rural transportation program administrators.
- Attended the Local Government Administrators meeting to discuss preparation for the upcoming HB2 process and the VTrans Needs Assessment Forum.
- Completed a VTrans Needs Synthesis Online Survey. The survey will be used to help categorize and group the needs of each region based on commonality. The results of the survey were discussed at the VTrans Needs Assessment Forum on May 16th.

ONSITE REPAIR & PUMPOUT

Funding –VRA Loan Funds, local match from MPPDC General Fund, cost sharing

Project 30420, 30423 On-Site technical Guidance Assistance and Revolving Loan Program

The On-Site Technical Guidance Program aids the Middle Peninsula localities and residents in the technical understanding and implementation of approaches to address On-Site Disposal Systems and improve water quality by assisting local homeowners with repairing failing septic systems through low-interest loans and/or grants.

- Received notice from Department of Environmental Quality that the proposal for septic repair funding has been approved. \$200,000 grant will provide grant funds of \$183,500 over 2 years to 20-30 homeowners to repair failing septic systems in the Middle Peninsula and New Kent County. Funding scheduled to be available after July 1.
- Consulted with Gloucester homeowner regarding loan approval. Homeowner requested to change loan terms to allow for a longer pay-off period. New terms will require deed of trust. Sent contact information to attorney to set loan closing date.
- Consulted with David Tiller, VDH, regarding VDH's recent NFWF grant that offered 50% grants (up to \$7500) to homeowners either opting to replace 930 waived systems with alternative septic systems or,

later to assist homeowners to repair failing septic systems with nitrogen reducing systems. Mr. Tiller wanted feedback on their program. MPPDC partnered with VDH to assist several Middle Peninsula homeowners to repair failing septic systems as MPPDC did not have grant funds available and VDH did not have access to loan funds.

- Consulted with Ashleigh Miller, Millers Septic Service, regarding availability of loans/grants for low income homeowners.
- Executed ACH loan payments for septic repair loans. All MPPDC loan funding programs require that loan recipients authorize loan payments to be made automatically from loan recipients’ bank accounts. Loan clients authorize the payments at loan closing (ACH Authorizations). MPPDC staff process these payments on the 15th of each month. This places the onus to not make a payment on the loan client contacting MPPDC staff prior to the loan processing date of the 12th of the month to request a payment be held. This has significantly reduced defaults and delinquent repayments of MPPDC loan

Remaining uncommitted funding – \$163,136 loan funds. Grant funds of \$183,500 should be available starting July 1.

Project 30424 Septic Pumpout and Ordinance Review

This project will provide financial assistance to 110-130 low income Middle Peninsula homeowners to comply with Chesapeake Bay regulations to pump their septic systems every 5 years and to review Mathews County’s land use ordinance provisions per 9VAC25-830.-190.2-3 and 9VAC25-830-190.4-5 and develop any needed changes to promote protection of water quality through reduction of impervious cover, preservation of indigenous vegetation and minimization of land disturbance for consideration by the Mathews BOS.

- Discussed the findings of the DEQ Advisory Review Checklist for Mathews County codes and ordinances with John Shaw, Mathews County Planning Director. Discussed recommended amendments to the planning tools for compliance with Phase III Performance Standards Implementation.
- Reviewed Mathews County Zoning and Subdivision Ordinances for existing performance standards that seek to minimize the impacts of development. Made proposed amendments to include additional language that is consistent with the goals of the Phase III Performance Standard Implementation of the Chesapeake Bay Act.
- Consulted with numerous homeowners regarding vouchers, copays, participating septic haulers.
- Septic Pumpout as of May 16, 2016

Applications Mailed	120
Approved Vouchers	57
Completions	39

Pumpout Vouchers by County

Essex	01
Gloucester	08
King and Queen	45
King William	01
Mathews	02
Middlesex	00

ECONOMIC DEVELOPMENT

Funding – EDA, local match from MPPDC General Fund, BDP Loan Program Income

Project 301702 Small Business Revolving Loan Fund

MPPDC agreed to service Middle Peninsula Business Development Partnership's (MPBDP) Small Business Loan Portfolio after MPBDP's dissolution November 30, 2011. MPPDC established a revolving loan fund and staff initiate ACH loan payments from clients bank accounts and manages the accounts. Principal repaid will be held until the Commission determines the best use for these funds as allowed by the USDA (RBEG) original lending restrictions. Interest earned will be used to offset administration costs.

- Discussed USDA Revolving Loan funds program requirements with Marquitrice Mangham, MPPDC Chief of Community Planning.
- Executed ACH loan payments for MPBDP loans. All MPPDC loan funding programs require that loan recipients authorize loan payments to be made automatically from loan recipients' bank accounts. Loan clients authorize the payments at loan closing (ACH Authorizations). MPPDC staff process these payments on the 15th of each month. This places the onus to not make a payment on the loan client contacting MPPDC staff prior to the loan processing date of the 12th of the month to request a payment be held. This has significantly reduced defaults and delinquent repayments of MPPDC loans.

Project 30108 Building Collaborative Communities (BCC) Grant

This project, with funding from the Virginia Department of Housing and Community Development (DHCD), is a collaborative effort with regional and local, public and private stakeholders to create an organizational structure with the capacity and resources to lead regional economic development initiatives in the Middle Peninsula. The project will seek to provide education, training and outreach to local officials on regional economic development partnerships, re-establish the Tidewater Resource Conservation and Development Council, update the River County Economic Development study, as well as draft policies, bylaws and a conceptual work plan for the newly created economic development organization.

- Attended the Essex County Board of Supervisors work session to receive questions on the draft documents to establish a Middle Peninsula Economic Development Organization.
- Discussed FOIA questions with Garrey Curry, Gloucester County Assistant County Administrator for Community Development, on matters related to the need for FOIA and the new Middle Peninsula Economic Development Organization (EDO). Consulted with Department of Legislative Services staff for the Virginia Freedom of Information Advisory Council. If the EDO is supported wholly or principally with public funds, it will be subject to FOIA. Advisory Council staff reported that there is an AG's opinion on this matter as well as multiple FOIA Council opinions.

LOCAL INITIATIVES

Funding - local dues, PDC base-funding from VDHCD and/or MPPDC General Fund. Funding for specific projects may come from locality requesting assistance.

Project 30021 Mathews County Comprehensive Plan Update

Middle Peninsula Planning District Commission will provide technical assistance to Mathews County in updating the Mathews County 2030 Comprehensive Plan and Mathews County Zoning Code. Every jurisdiction in Virginia is mandated by Virginia Code Section 15.2-2223 to create and adopt a Comprehensive Plan that outlines a vision for the future of the community with a twenty year planning horizon.

- Compiled, researched, and updated the Environment Section of the Comprehensive Plan. Presented proposed amendments to John Shaw, Mathews County Planning Director.
- Reviewed Mathews County Zoning and Subdivision Ordinances for existing language and provisions that manage development in flood-prone areas.

Project 380161 Local & Regional Technical Assistance

This program responds to daily requests for technical assistance which other commission programs are unable to provide.

- Completed and submitted the scope of work for the National Fish and Wildlife Fund's Chesapeake Bay Steward Fund. The Middle Peninsula Planning District Commission, Middle Peninsula Chesapeake Bay Public Access Authority and the Oyster Company of Virginia (OCVA) will partner to work toward the development of an In-water Aquaculture Business Park and Water Quality Learning Center on the Captain Sinclair Recreational Area and on adjacent land owned by the OCVA. The proposal was submitted on May 5, 2016.
- Drafted a letter of support for the King and Queen County proposal to the National Fish and Wildlife Foundation for the development of a conceptual green infrastructure and drainage improvement plan.
- Discussed possible economic development projects to be considered by Essex County and the Town of Tappahannock in current funding cycle of opportunities available through the Department of Housing and Community Development with Trent Funkhouser, Essex County Economic Development Coordinator.
- Researched Virginia Legislative Code for compilation of required elements that are to be included in local comprehensive plans. Forwarded a draft of findings to Donna Sprouse, GIS Coordinator of King and Queen County.
- Researched enabling legislation for the creation of the Middle Peninsula Broadband Authority for Matt Walker, Middlesex County Administrator.
- Prepared and submitted two proposals to the National Fish and Wildlife Foundation requesting funding to study new approaches for economic leveraging of blue and green assets found across the Middle Peninsula. One proposal focused on the regulatory side and the second focused on aquaculture workforce training and industry expansion and Chesapeake Bay cleanup.

Project 30109 Tidewater RC&D Staff Support

The Tidewater RC&D Council, Incorporated is a 501(c)(3) corporation organized to provide leadership, initiative and direction in development of a plan for the orderly development and utilization of the Middle Peninsula/Northern Neck regions' human and natural resources. With loss of federal support, the Northern Neck members opted to retire from the Council. The Middle Peninsula members desired to continue the organization and requested MPPDC to provide staff support and act as their fiscal agent. Tidewater RC&D's resources were divided and 40% was transferred to the Northern Neck Planning District Commission, Inc.

- Continued attempts to discover process for submitting reimbursement request to Navy.
- Emailed reimbursement request to point of contact and requested mailing address to the correct point of contact for reimbursements.

- Consulted with Joe Shumacher, Congressman Wittman’s staff, regarding problems with Navy reimbursement process. Mr. Shumacher reported that the Navy has approved reimbursement and check should be forthcoming.

HOUSING

Funding –Housing Loan Program Income

Project 300132 Energy Efficiency and Conservation Block Grant (EECBG)

Summary: Governor Timothy Kaine announced on October 6, 2009 that \$9.7 million in Energy Efficiency and Conservation Block Grants (EECBG) would be distributed on a competitive basis to small local governments. Virginia’s 21 Planning District Commissions administered the program and assisted localities in the development of proposals which were ranked and awarded by the Department of Mines, Minerals and Energy (DMME). The program emphasizes a community-based approach to help meet energy and climate protection goals. MPPDC was awarded a contract to provide weatherization renovations to 12 homeowners ineligible for LMI weatherization programs in each of the 6 counties. MPPDC subcontracted the promotion and construction portions of this project to Bay Aging but is tasked with administering the overall project. MPPDC is administering the revolving loan program per DMME.

- Executed ACH loan payments for MPBDP loans. All MPPDC loan funding programs require that loan recipients authorize loan payments to be made automatically from loan recipients’ bank accounts. Loan clients authorize the payments at loan closing (ACH Authorizations). MPPDC staff process these payments on the 15th of each month. This places the onus to not make a payment on the loan client contacting MPPDC staff prior to the loan processing date of the 12th of the month to request a payment be held. This has significantly reduced defaults and delinquent repayments of MPPDC loans.

EMERGENCY SERVICES

Funding - Pending

Project 31201 Middle Peninsula All-Hazards Mitigation Plan Update (Reported under Mandates)

Project 31203 Regional Emergency Management Planner

Regional Emergency Planner position housed at the Middle Peninsula Planning District Commission (MPPDC) in Saluda. The Middle Peninsula crosses VDEM Region 1&5 boundaries. Position will support local Emergency Coordinators by assisting/coordinating homeland security & disaster response preparedness; Rt. 17 evacuation planning; & resource data collection.

- Attended a State Homeland Security Program (SHSP) grant workshop to learn about the 2016 SHSP application process. The grant applications will be due on June 20 and the focus this year is for more regional projects with no grant applications less than \$10,000 permitted. Grant awards are scheduled to be made by September 30.
- Participated in the Public Assistance (PA) Program Eligibility Course sponsored by VDEM and run by FEMA. The one day course is designed to provide a better understand of the Public Assistance (PA) eligibility program to include the new Public Assistance Program and Policy Guide (PAPPG) which became effective 1/1/2016. The course covered the various categories of work under the PA program and provided specific guidelines and case studies in PA eligibility. This course is geared toward policy and procedures as to how FEMA and the Commonwealth decide the amount of assistance per project and discussed recent changes in policy and disaster organization.

- Attended the Hurricane Evacuation Coordination Workgroup in James City County. The MPPDC Regional Emergency Planner sits on the SH-29 Workgroup, “Local Shelter Information Sharing.” The workgroup, consisting of personnel in the Commonwealth involved in emergency planning and first response (such as local Emergency Managers, VDOT, Virginia State Policy, VDEM, etc.) is responsible for addressing gaps identified in the “In-season Hurricane Evacuation Study” commissioned by the Governor.
- Participated in the NN/MP Emergency Manager meeting in Tappahannock. Topics of discussion were the Mission Ready Package initiative that the VDEM logistics section is working on, and a roundtable discussion on the Essex/Tappahannock tornado response. Kate Archie from the VDEM logistics section was the guest speaker.
- Attended and received an award at the American Red Cross (ARC) awards ceremony in Heathsville. The award was a “Good Neighbor Award”, recognizing the work that the Regional Emergency Planner at the MPPDC has done to re-open communications between the Middle Peninsula Emergency Managers and the American Red Cross following the restructuring of the ARC Rappahannock Chapter Territory.
- Met with American Red Cross Disaster Coordinator Kay Karstaedt to discuss operational planning for shelter support for the Middle Peninsula. The 2016 goal is to have every locality in the Middle Peninsula receive free ARC shelter surveys and complete shelter agreements so ARC can be prepared to deploy shelter support teams without delay after a disaster.
- Updated the Local Government Administrators on the current programs in MPPDC Regional Emergency Management Program (REMP). Currently the REMP is working on regional Amateur Radio coordination, THIRA plans for localities, LEPC engagement, ARC disaster shelter coordination, and regional EOC communications.
- Participated in the webinar: “Virginia Resource and Inventory Management Program available during Emergency Incidents”. The webinar provided an overview of the new Virginia Resource and Inventory Management Program. Learned about types of resources the inventory will contain, how resource providers can incorporate their resources in the program through Mission Ready Packages, and how the inventory can be used by local and state partners to supplement local capabilities during emergencies.
- Participated in the webinar: “Building Mission Ready Packages”. The webinar discussed how to develop Mission Ready Packages (MRP) for mutual aid deployment during emergencies. MRPs are resource descriptions in a standardized format that identify details about the resource such as mission description and capability, estimated mission costs, resource footprint, limiting factors, and logistical support requirements.

AGENCY ADMINISTRATION

Funding - Indirect cost reimbursements from all PDC projects

Project 300181 MPPDC Administration

Administrative services provided to MPPDC programs. Planned FY16 Indirect Cost rate =49.8%.

- Prepared vouchers, processed A/P, processed payroll, processed deposits and balanced bank accounts. Prepared MPPDC monthly financial statements.

- Met with Elizabeth Faudree, Branch Manager, and Anita Hazelwood, VP Treasury Solutions, C&F Bank for annual relationship review. Discussed credit card options, interest rates, and new services.

CLOSED FY16 PROJECTS

Project 32011 Public Access Authority Giving

This project developed a targeted land donation marketing campaign for Essex County and, secondarily, other Middle Peninsula localities and to research and develop a white paper detailing the costs and benefits (pros and cons) to localities for property that is donated.

Project 32134 Drainage and Roadside Ditching Authority

To build on past efforts, MPPDC staff explored the enabling mechanism in which a Drainage and Roadside Ditching Authority may be developed. As this Authority would be responsible for prioritizing ditch improvement needs, partnering with and leveraging Virginia Department of Transportation (VDOT) funding, and ultimately working toward improving the functionality of the region's stormwater conveyance system, MPPDC staff addressed the policy questions and created a framework for Drainage and Roadside Ditching Authority that can be scalable to the local or regional level depending on the need.

Project 32207 Working Waterfront Plan

MPPDC staff built on previous efforts to establish a coastal zone-wide Working Waterfronts Plan for Virginia that will serve to guide communities in protecting, restoring and enhancing their water dependent commercial and recreational activities. This plan will help communities with existing water-dependent commercial infrastructure, understand the long-term costs associated with the loss of working waterfronts, develop new policy tools to help them manage the increasing growth pressures, and build capacity to develop working waterfronts as thriving components of local economic development.

Project 302101 Transportation Demand Management (TDM) 6 Year Plan Update

MPPDC received funding from DRPT to update its Long Range TDM Plan. DRPT is requesting all TDM agencies update their plan every six years to improve the efficiency and effectiveness of transportation demand programs and services; to serve as a management and policy document for the program; to maximize investment of public funds to achieve the greatest possible public benefit; and to provide a basis for inclusion of operating and capital programs in planning and programming documents such as the Six Year Improvements Program, Statewide Transportation Improvement Program, Transportation Improvement Program and the Constrained Long Range Transportation Plan.

Project 32012 PAA Captain Sinclair Improvements

The MPCBPAA is partnering with the MPPDC to develop an overall use plan for the Captain Sinclair's Recreational Area that is compatible with the existing natural coastal landscape. The project is centered around protecting and enhancing the local coastal landscape and minimizing wetland impacts associated with constructing a new public pier to improve the current "walk in and over the wetlands" as part of the existing public access to public waters on the site. A Native Coastal Landscape Design (NCLD) will radiate away from the public access pier to enhance the coastal landscape around the project site and an educational exhibit on native plants in the main house.

Project 30106 Middle Peninsula Regional Jail Flash Freeze Feasibility Study

The Middle Peninsula Regional Jail Authority (MPRJA) will use funds from the USDA RBEG program to contract with the Middle Peninsula Planning District Commission (MPPDC) to conduct a feasibility study to evaluate whether, and to what degree, the Middle Peninsula Regional Security Center, local economies, and small scale emerging farms across the Middle Peninsula can benefit from a flash freezing produce program. The feasibility study will assist with exploring and addressing both the infrastructure and capital needs for establishing a freezing program as well as the larger community implications of supporting and enhancing economic growth and community vitality.

Ted Henifin
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Ted Henifin, a registered professional engineer, has served as HRSD's General Manager since 2006. The recipient of a bachelor's of science in civil engineering from the University of Virginia, Mr. Henifin also has completed the Water and Wastewater Leadership Program at the Kenan-Flagler Business School of the University of North Carolina at Chapel Hill.

Mr. Henifin began his career in 1982 as a civil engineer in the facilities planning division of the Navy Public Works Center in Norfolk. He has served as a senior engineer with the Norfolk Redevelopment and Housing Authority and deputy site manager of the Navy Public Works Center at Little Creek. He worked for nine years as Director of Public Works for the City of Hampton before joining HRSD.

Active in numerous professional and civic organizations, Mr. Henifin is president of the Virginia Association of Municipal Wastewater Agencies and serves on the boards of the National Association of Clean Water Agencies and VIRGINIA*forever*. He is also secretary of Langley Federal Credit Union, treasurer of the Hampton Neighborhood Development Partnership, president of the George Wythe Recreation Association and a member of Congressman Scott Rigell's Chesapeake Bay Advisory Committee.

Mr. Henifin's honors include the Julian F. Hirst Award for Distinguished Service, presented by the American Society for Public Administration. In addition, he was among a select number of proven leaders chosen for the 2009 class of LEAD Virginia and the Civic Leadership Institute Class of 2015.

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SUMMARY:

Sustainable Water Recycling Initiative

About The Project

HRSD proposes to add advanced treatment processes to several of its facilities to produce water that exceeds drinking water standards, and to pump this clean water into the ground. This will ensure a sustainable source of water to meet current and future groundwater needs throughout eastern Virginia while improving water quality in local rivers and the Chesapeake Bay.

Project Benefits

- Eliminates HRSD discharge to the James, York and Elizabeth rivers except during significant storms
- Restores rapidly dwindling groundwater supplies in eastern Virginia upon which hundreds of thousands of Virginia residents and businesses depend
- Creates huge reductions in the discharge of nutrients, suspended solids and other pollutants to the Chesapeake Bay
- Makes available significant allocations of nitrogen and phosphorous to support regional needs
- Protects groundwater from saltwater contamination/intrusion

- Reduces the rate of land subsidence, effectively slowing the rate of sea level rise by up to 25 percent
- Extends the life of protective wetlands and valuable developed low lying lands

Project Timeline

HRSD is working to obtain approvals to begin construction in 2020, with full-scale operations replenishing the aquifer (120 million gallons per day) projected by 2030.

Project Costs

- The construction cost of this project, which will include multiple new advanced treatment facilities, is estimated at \$1 billion. The effort has the potential to be integrated into and funded by HRSD as part of the U.S. Environmental Protection Agency (EPA)-mandated wet weather management plan with minimal to no impact on HRSD's existing 20-year financial forecast.
- Operating costs are estimated to be between \$20 million and \$40 million annually, which could be recovered with a modest groundwater withdrawal fee.



Sustainable Water Recycling

Overview

The residents of Hampton Roads send approximately 150 million gallons of water to Hampton Roads Sanitation District (HRSD) each day. HRSD cleans this water to exacting standards and returns it safely to area waterways. The cost to clean water is rising as new regulatory requirements, like nutrient removal, are implemented to address environmental issues that continue to be further refined as we learn more about the sustainable health of our waterways.

Utilities across the country and throughout the world are increasingly looking for more beneficial uses for the water they clean and release into the environment, as well as uses for resources recovered in the cleaning process. HRSD is no exception and has been looking for many years at more sustainable uses of the valuable clean water it produces. To that end, HRSD recently commissioned a study to investigate the feasibility of applying additional treatment processes to the water HRSD currently returns to the environment to bring it to levels that exceed drinking water quality, then using that water to meet the groundwater supply needs of current and future generations throughout eastern Virginia.

Groundwater in Eastern Virginia

The HRSD service area is entirely within the Eastern Virginia Groundwater Management Area, an area of Virginia extending eastward from the Fall Zone (approximately along the I-95 corridor) to the Chesapeake Bay. Groundwater in this region is primarily contained in aquifers (porous layers of sands, shells and gravels) that are confined by layers of impermeable soils (clays and silts). The layers of impermeable soils inhibit rain water from seeping into the ground to replenish these aquifers. The largest of the aquifers in this area is the Potomac aquifer, located along the Virginia coast, which is several thousand feet thick and contains hundreds of trillions of gallons of pressurized water.

With limited ability to recharge naturally, the water within the Potomac aquifer is essentially a limited natural resource. As water is withdrawn, the pressure in the aquifer decreases. For more than 100 years Virginians have been withdrawing water from this confined aquifer, significantly lowering the pressure in the aquifer. The reduced pressure has caused the aquifer to compact, resulting in land subsidence, and has increased the potential for salt water contamination.

A Sustainable Solution

HRSD modeled the effect of pumping 120 million gallons of drinking quality water daily into the Potomac aquifer at several HRSD plant locations in southeastern Virginia. The results show a positive impact on nearly the entire Potomac aquifer, increasing pressures west to the Fall Zone, as far north as Maryland and south beyond the North Carolina border. The increased pressure along the coast would also inhibit salt water contamination. With the addition of 120 million gallons of clean water each day, the model predicts that the aquifer can support all existing permits for groundwater use, with capacity to allow future withdrawals practically anywhere within the Eastern Virginia Groundwater Management Area.

Advanced Water Treatment

The additional cleaning processes to be used by HRSD to exceed drinking water standards will produce water that both protects human health and closely matches the chemistry of the water already in the aquifer. Treating water to match the chemistry of that in an aquifer (which prevents damage to the structure of the aquifer and the release of contaminants within the soils in the aquifer) has been done successfully for decades throughout the world, and since the late 1980s at Southeast Virginia's Chesapeake Aquifer Storage and Recovery facility.

The History of Recycling Water

Water recycling is common and a well-honed process throughout the U.S. and world. In fact, Northern Virginia's Upper Occoquan Service Authority and the Fairfax Water Authority, water suppliers for 1.5 million residents, have successfully recycled water to supplement the water supply and improve reservoir water quality for nearly 40 years. Well established technologies exist to reliably produce water that exceeds drinking water standards and matches the chemistry of the water in the aquifer. HRSD is considering three proven technologies, including the technology used in Northern Virginia, for pilot testing over the coming year.

Slowing the Rate of Land Subsidence

In addition to stabilizing and restoring the water supply in the aquifer, the initiative is expected to slow the rate of land subsidence in eastern Virginia. The United States Geological Service (USGS) has estimated that ground water withdrawals are responsible for nearly half of the land subsidence in eastern Virginia, and land subsidence is estimated to contribute up to half of the net effect of sea level rise in Hampton Roads. A reduction in the rate or complete halt of subsidence would provide years of added use of highly valuable developed land impacted by sea level rise, as well as protect thousands of acres of environmentally valuable wetlands from complete inundation and loss.

Eliminating Surface Water Discharge

A key benefit of this proposed effort is that it will practically eliminate HRSD's discharge into the James, York and Elizabeth rivers. HRSD will only need to discharge clean water through existing permitted outfalls into these rivers during periods of extremely high flows that occur occasionally during significant storms. The Chesapeake Bay Total Maximum Daily Load (TMDL) established fixed limits on the amount of nutrients (nitrogen and phosphorus) that can be discharged based on the amount that can be naturally assimilated into the Bay in pounds per year. Each

discharger was allocated a fixed amount of nutrients that they would be permitted to discharge each year. New development or expanded existing needs must be accommodated through offsets with existing allocations. With the help of the sustainable water recycling initiative, HRSD will only require a fraction of its existing allocation, freeing up significant allocation to support other needs throughout Hampton Roads.

Supporting Future Economic Development

The Virginia Department of Environmental Quality (DEQ) modeling shows that the currently permitted groundwater withdrawals by the region's businesses and communities are unsustainable and will permanently damage the aquifer. A sustainable water supply is essential to public health and the region's economic vitality now and in the future.

Cost within Reach

The estimated cost to construct the additional water cleaning technologies and the related pumps and wells required to put that clean water into the Potomac aquifer is \$1 billion. This investment should yield incalculable returns in terms of reductions of nutrients to the Chesapeake Bay, ensuring sustainable ground water supply, reversing land subsidence and mitigating sea level rise (and the corresponding loss of productive coastal wetlands and developed areas).

HRSD is also currently pursuing sanitary sewer overflow minimization work that is required by EPA. While sanitary sewer overflows need to be minimized, they are not chronic issues in Hampton Roads and the impact of these relatively insignificant, episodic releases on local water quality pales in comparison to the daily benefits to water quality this initiative could achieve.

EPA has recently begun to allow communities to prioritize local environmental issues, recognizing limited community resources must be applied to the most pressing and impacting issues first.



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Therefore, HRSD believes the Sustainable Water Recycling Initiative can be incorporated into the plan under development to address wet weather sewer overflows, allowing this more critical surface water and ground water initiative to be accomplished sooner.

Once constructed, the annual operating and maintenance costs for the Sustainable Water Recycling project are estimated to be between \$20 million and \$40 million. One potential cost recovery model is a permitted withdrawal fee that would apply to all groundwater permit holders on an annual basis. This fee could be collected by the DEQ, with payment distributed to

HRSD to offset some or all of the operating costs. DEQ could retain a nominal percentage for program administration.

Schedule

HRSD is working toward obtaining all necessary approvals for construction of the first sustainable water recycling facility in 2020. HRSD estimates a 10-year construction schedule to fully build out all facilities required to ultimately reach full scale operations—recycling 100 to 120 million gallons of water per day—by 2030.