

**Clean Water and Flood Abatement Task Force**

**Thursday, May 12<sup>th</sup>, 2016  
10:00 a.m. – 12:00 p.m.  
Tatnall Building**

**Meeting Attendance**

**Task Force Members:**

**Present:**

Senator Bryan Townsend  
Representative Ronald Gray  
Representative Michael Mulrooney  
Senator Bryant Richardson  
Secretary David Small  
Holly Porter  
Jeffrey Bross  
Roy Miller  
Howard Morrison  
Brenna Goggin  
Lew Killmer  
Joseph Corrado  
George Haggerty  
Thom May  
Paul Morrill  
Jen Adkins  
Patty Cannon  
Michael Riemann

**E-mail:**

[Bryan.Townsend@state.de.us](mailto:Bryan.Townsend@state.de.us)  
[Ronald.Gray@state.de.us](mailto:Ronald.Gray@state.de.us)  
[Michael.Mulrooney@state.de.us](mailto:Michael.Mulrooney@state.de.us)  
[Bryant.Richardson@state.de.us](mailto:Bryant.Richardson@state.de.us)  
[David.Small@state.de.us](mailto:David.Small@state.de.us)  
[Holly.Porter@state.de.us](mailto:Holly.Porter@state.de.us)  
[Jeff@duffnet.com](mailto:Jeff@duffnet.com)  
[policy@inlandbays.org](mailto:policy@inlandbays.org)  
[lmorrison@countygrp.com](mailto:lmorrison@countygrp.com)  
[brenna@delnature.org](mailto:brenna@delnature.org)  
[lew.killmer@mac.com](mailto:lew.killmer@mac.com)  
[JCORRADO@CORRADO.COM](mailto:JCORRADO@CORRADO.COM)  
[GOHaggerty@nccde.org](mailto:GOHaggerty@nccde.org)  
[Thom.May@state.de.us](mailto:Thom.May@state.de.us)  
[pmorrill@committeeof100.com](mailto:pmorrill@committeeof100.com)  
[jadkins@delawareestuary.org](mailto:jadkins@delawareestuary.org)  
[Patricia.Cannon@state.de.us](mailto:Patricia.Cannon@state.de.us)  
[mriemann@beckermorgan.com](mailto:mriemann@beckermorgan.com)

**Absent:**

Secretary Jennifer Cohan  
Gerald Kauffman  
Gerard Esposito  
Sam Lathem  
William Lucks  
Dian Taylor  
Thomas Unruh  
Bruce Jones  
Robert Baldwin  
Christine Mason  
Gina Jennings  
Andrew Jakubowitch

[Jennifer.Cohan@state.de.us](mailto:Jennifer.Cohan@state.de.us)  
[jerryk@udel.edu](mailto:jerryk@udel.edu)  
[jesposito@tuiwater.com](mailto:jesposito@tuiwater.com)  
[lathem.de.aflcio@comcast.net](mailto:lathem.de.aflcio@comcast.net)  
[wluks@wluks.com](mailto:wluks@wluks.com)  
[dtaylor@artesianwater.com](mailto:dtaylor@artesianwater.com)  
[townsendunruh@aol.com](mailto:townsendunruh@aol.com)  
[bjones@pennoni.com](mailto:bjones@pennoni.com)  
[robert.baldwin@dacdnet.org](mailto:robert.baldwin@dacdnet.org)  
[christine@sussexshoreswater.com](mailto:christine@sussexshoreswater.com)  
[gjennings@sussexcountyde.gov](mailto:gjennings@sussexcountyde.gov)  
[Andrew.jakubowitch@co.kent.de.us](mailto:Andrew.jakubowitch@co.kent.de.us)

**Staff:**

Michelle Zdeb  
Caitlyn Gordon

[Michelle.Zdeb@state.de.us](mailto:Michelle.Zdeb@state.de.us)  
[Caitlyn.Gordon@state.de.us](mailto:Caitlyn.Gordon@state.de.us)

Minutes prepared by Caitlyn Gordon, Legislative Aide

Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer

**Attendees:**

Bob Zimmerman  
 Terry Deputy  
 Jeremy Kalmbacher  
 David Spacht  
 Stephanie Scola  
 Timothy Frey  
 Charles Postles  
 Hanz Medlarz  
 Pam Bakerian  
 David Gregor  
 Michael Bard  
 Tom Cook  
 Kelly Glenn  
 Bob Palmer  
 Brooks Cahell  
 Doug Hokuf  
 Marjorie Crofts  
 Virgil Holmes

**Organization:**

DNREC  
 DNREC  
 Tidewater  
 AWC  
 DNREC  
 Saul Ewing  
 Farmer  
 Sussex County  
 DE Farm Bureau  
 DOF  
 Delaware Nature Society  
 DOF  
 NAWC  
 DNREC  
 DNREC  
 NCC  
 DNREC  
 DNREC

The Task Force meeting was brought to order at 10:11 a.m.

**Consideration of Meeting Minutes**

Representative Michael Mulrooney Co-Chair, welcomed Task Force members to the meeting and thanked everyone for coming. Next, he asked if there were any changes to the April 13, 2016 Meeting Minutes. As there were none, he asked for a motion to approve the April 13, 2016 Meeting Minutes.

Law Killmer, Delaware League of Local Governments, motioned to approve the Meeting Minutes.

Secretary David Small, Department of Natural Resources and Environmental Control, seconded this motion.

The Meeting Minutes from April 13, 2016 were approved with all in favor.

Representative Mulrooney moved the Task Force discussion to the first item on the Agenda.

**Presentations**

Terry Deputy, member of the public on behalf of DNREC, opened the presentations by introducing two speakers: Stephanie Scola, Department of Finance, and Tim Frey, Saul Ewing LLP, who both spoke for the Bonding Presentation.

*The presentation that Task Force members received is inserted below:*

Minutes prepared by Caitlyn Gordon, Legislative Aide  
 Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer



**Department of Finance  
Clean Water and Flood Abatement Task Force**

**May 12, 2016**

## Assumptions



- **Legislation has Passed**
- **Revenue Source and Method of Collection Determined**
  - Collection by Division of Revenue as a % of tax liability or a surcharge
  - Tax / Surcharge collections begin in calendar year 2018
- **Public Workshops have been held**
- **Notice of Intent has been Solicited / Received**
- **Applications for funding have been received**
- **Projects have been Prioritized / Ranked**
  - **AND are Ready to Proceed**
- **Intended Use Plan Submitted**

## Legislative Mandates



- **Statute defines Water Fee**
  - Creates Special Fund
  - Directs transfer of Water Fee to Special Fund at receipt
  - Creates governing Trust Board and permits Board to enter into Bond Indenture and other necessary contracts
  - Authorizes bond issuance based on resolution of the Trust Board
    - Bonds will be special limited obligations of the Clean Water Trust payable solely from and secured by Pledged Revenues
  - Identifies Pledged Revenues
  - General Assembly stipulates that water fee cannot be discontinued unless all bonds outstanding are paid in full
  - Identifies Use of proceeds

**Pre-market Questions!**



**What are the Specific Projects being Funded?**

**Exactly how much funding is required for those projects?**

**When is it Needed?**

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## Projects Identified through Intended Use Plan Process



- **From the FY 2015 Intended Use Plan filed in December 2015**
  - FY 2016 and FY 2017 Loan Requests of \$30.3 million and \$48.5 million, respectively
  - Requests for water fee loans / grants were roughly the equivalent of SRF requests and each request met the criteria or the objectives WIAC has set
- **Potentially \$75 million in capital required over two year period\***
  - \$30 million is needed for project funding in FY 2019
  - \$45 million is needed for project funding in FY 2020
- **Projects are ready to proceed**
  - Bond proceeds reimburse expenditures

## Assumed Collections



### Water Fee Revenue estimate \$20 million annually

- \$12 - \$15 million in Personal Income Tax
- \$5 - \$8 million in Gross Receipts Tax

### HSCA fees fluctuate with fuel prices

- \$12.0 - \$12.5 million in fiscal 2019 and 2020, respectively
- Trust Fund administration and Expenses associated with collection estimated at 15%

## Pledged Revenue and Expenses



Delaware Clean Water Trust Fund  
Clean Water Revenue Bonds  
Fiscal Year 2019

	2019	2020
<b>Pledged Revenue</b>		
Clean Water Fee	\$ 20,000,000.00	\$ 20,000,000.00
Clean Water Fee Loan Repayments	-	50,000.00
HSCA (Title 7, §9114)*	12,000,000.00	12,500,000.00
Investment Income	<u>50,000.00</u>	<u>55,000.00</u>
<b>Total Pledged Revenue</b>	\$ 32,050,000.00	\$ 32,605,000.00
*FY15 - \$15.2 million		
*FY16E - \$10 million		
<b>Expenses</b>		
Personnel and Other Operating Costs (@ 15%)	\$ 4,807,500.00	\$ 4,890,750.00
Reserve	3,000,000.00	3,000,000.00
<b>Total Expenses</b>	<u>\$ 7,807,500.00</u>	<u>\$ 7,890,750.00</u>
<b>Revenue Available for Debt Service</b>	<u>\$ 24,242,500.00</u>	<u>\$ 24,714,250.00</u>

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## Security for the Bonds



### Special Limited obligations of the Clean Water Trust payable solely from and secured by the Pledged Revenues

- **At bond issuance, Trust Board executes Bond Indenture**
  - Indenture managed by Independent Trustee
  - Indenture identifies Pledged Revenue – water fee, repayments on loans made from water fee, HSCA, interest earnings
    - Montgomery County, MD, \$46.5 million Water Quality Protection Charge Revenue Bonds, Series 2016
    - (water quality protection charge, carryout bag tax, interest earnings and other lawfully available funds)
  - Indenture identifies debt service requirements and other appropriate covenants
    - Debt Service Reserve Fund, an amount equal to the least of:
      - 10% of bond proceeds
      - Max Annual Debt Service on all outstanding Bonds
      - 125% of average annual debt service requirements
    - Debt service coverage ratio (DeIDOT maintains +/- 3.0x)
    - Rate covenant – 115% of DSR
    - Additional Bonds Test – 115% of debt service on outstanding bonds

## Debt Service Coverage Ratio



**Delaware Clean Water Trust Fund  
Clean Water Revenue Bonds  
Fiscal Year 2019**

	2019	2020
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<b>Total Pledged Revenue</b>	<b>\$ 32,050,000.00</b>	<b>\$ 32,605,000.00</b>
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<small>*FY16E - \$10 million</small>		
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Reserve	3,000,000.00	3,000,000.00
<b>Total Expenses</b>	<u>\$ 7,807,500.00</u>	<u>\$ 7,890,750.00</u>
<b>Revenue Available for Debt Service</b>	<u>\$ 24,242,500.00</u>	<u>\$ 24,714,250.00</u>
<b>Debt Service</b>	\$ 7,125,000.00	\$ 6,956,250.00
<b>Debt Service Coverage Ratio @ \$75 million issuance</b>	3.4	3.6

## Credit Considerations



### Fundamentals of the Security

- Fees imposed and collection of
- Use of Proceeds
- Debt service coverage ratios, at issue and pro-forma
  - how future debt will be layered in
- Operational and financial management policies
  - Regular monitoring of revenues and expenses
  - Formalized capital investment plan

### Incremental State Debt

- Tax Supported Debt Obligation
- Effect on existing State obligations and liabilities

## Professional Services



- Financial advisor
- Underwriter, negotiated or competitive
- Underwriters' counsel
- Rating agencies
- Bond Counsel
- Trustee / Paying Agent

## Post-Issuance Compliance



- Annual, audited Financial Statements
- Report of Pledged Revenues, Expenditures and Debt Service Coverage
  - Water Fee
  - HSCA
  - Other Pledged Property
- Significant Events

## Tax Exempt Bonds Finance Water and Wastewater Facilities



### Owned and operated by...

- a county, municipality or other governmental entity, or
- private entities (i.e., investor owned utilities) using private activity bonds ("PAB"s).

### A PAB:

- will be subject to federal alternative minimum tax,
- must be subject to a TEFRA hearing,
- must be covered by an allocation of PAB cap from the State, and
- must be approved by the highest appropriate elected official.
- A separate series of bonds would accommodate all PAB requirements
- If for any reason a facility does not qualify for tax-exempt financing as described, the Trust could finance the facility with federally taxable bonds

**Department of Finance**



**Questions**

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# Debt Service Model



Delaware Clean Water Trust Fund  
 Clean Water Revenue Bonds, Series 1  
 \$ 75,000,000.00      Principal Amount  
 20 Year Term  
 4.5% Rate

## DEBT SERVICE MODEL, based on LEVEL PRINCIPAL

Maturing	Payment Amount	Interest	Principal	Balance Remaining
7/1/2020	\$ 7,125,000.00	\$ 3,375,000.00	\$ 3,750,000.00	\$ 71,250,000.00
7/1/2021	6,956,250.00	3,206,250.00	3,750,000.00	67,500,000.00
7/1/2022	6,787,500.00	3,037,500.00	3,750,000.00	63,750,000.00
7/1/2023	6,618,750.00	2,868,750.00	3,750,000.00	60,000,000.00
7/1/2024	6,450,000.00	2,700,000.00	3,750,000.00	56,250,000.00
7/1/2025	6,281,250.00	2,531,250.00	3,750,000.00	52,500,000.00
7/1/2026	6,112,500.00	2,362,500.00	3,750,000.00	48,750,000.00
7/1/2027	5,943,750.00	2,193,750.00	3,750,000.00	45,000,000.00
7/1/2028	5,775,000.00	2,025,000.00	3,750,000.00	41,250,000.00
7/1/2029	5,606,250.00	1,856,250.00	3,750,000.00	37,500,000.00
7/1/2030	5,437,500.00	1,687,500.00	3,750,000.00	33,750,000.00
7/1/2031	5,268,750.00	1,518,750.00	3,750,000.00	30,000,000.00
7/1/2032	5,100,000.00	1,350,000.00	3,750,000.00	26,250,000.00
7/1/2033	4,931,250.00	1,181,250.00	3,750,000.00	22,500,000.00
7/1/2034	4,762,500.00	1,012,500.00	3,750,000.00	18,750,000.00
7/1/2035	4,593,750.00	843,750.00	3,750,000.00	15,000,000.00
7/1/2036	4,425,000.00	675,000.00	3,750,000.00	11,250,000.00
7/1/2037	4,256,250.00	506,250.00	3,750,000.00	7,500,000.00
7/1/2038	4,087,500.00	337,500.00	3,750,000.00	3,750,000.00
7/1/2039	3,918,750.00	168,750.00	3,750,000.00	-
		\$ 35,437,500.00	\$ 75,000,000.00	

*The following questions were asked during the presentation:*

Paul Morrill, Committee of 100, asked if Mr. Frey thinks that the legislation the Task Force drafted is drafted correctly.

Mr. Frey responded that there are some problematic issues, but not really bonding issues.

Mr. Killmer referenced the bonds that the Task Force was discussing. Then, Mr. Killmer asked how attractive those bonds are, as an investment.

Mr. Frey replied that the rating agency will have the answer to that.

Ms. Scola, Department of Finance, stated that there won't be a AAA rating bond, and they could target a AA rating. She noted that she didn't put any information in the presentation for the SRF (State Revolving Fund) portfolio. That portfolio is a mixture of loans to municipalities at various ratings, and some that do not even have ratings. Wilmington is a AA rating, Middletown is an A, and Laurel and Seaford do not have a rating. That portfolio is going to be cherry-picked for the best loans, if members decide to pledge them. If they don't decide to pledge them they can be used in another way.

Mr. Deputy presented on a series of handouts that he provided to Task Force members. He directed the members to the first item in his presentation, Clean Water State Revolving Fund Eligibility for Investor Owned Utilities.

*The documents that Task Force members received are inserted below:*

## CLEAN WATER STATE REVOLVING FUND (CWSRF)

### ELIGIBILITY FOR INVESTOR OWNED UTILITIES

In preparation for a conference call scheduled for Monday, May 9<sup>th</sup> that was canceled. Magdalene Cunningham, EPA Region 3 CWSRF Coordinator e-mailed the following information and supporting documents to help explain Clean Water Act (CWA), Section 320 Eligibilities. EPA will also send an official letter reaffirming CWSRF eligibilities for Investor Owned Utilities, and will participate in a future conference call if necessary.

1. Whitepaper: Tapping CW Potential. This document was prepared in 2007 to summarize all of the various types of projects that are eligible under the CWSRF program. This was document not new guidance or policy, just a white paper summarizing eligibilities. Section 320 eligibilities begin on page 13. This paper was never actually finalized because, based on comments received on the draft, it was going to be re-organized around project types instead of the three CWA Sections. However, when the stimulus money discussions began in November 2008 all non-essential work was suspended.
2. Eligibilities Paper Compiled 2-18-16. This document is also in draft but more current; it is expected to be made final this summer. Additional project examples are being added. It is organized by project type instead of the CWA sections. It incorporates all of the new eligibilities from Water Resources Reform and Development Act of 2014 (WRRDA). Pages 4-6 explain the Section 320 eligibilities. Page 8-9 specifically cite that any borrower, not just a municipal government, can receive a loan for a centralized wastewater treatment project if that borrower/project is located in a Section 320 Estuary Watershed.
3. Final Interpretive Guidance WRRDA. This document is final, signed and dated 1/6/2015. This document is formal agency guidance. The WRRDA amended the Clean Water Act. One of the major changes was from WRRDA was to Section 603(c) where the eligibilities are listed. Previously, there were only 3 eligible categories of projects referring to Sections 212 (POTW), 319 (Non-Point Source), and 320 (Estuary) of the CWA. There are now 11 categories. However, the first three are still Sections 212, 319, and 320. This final guidance clearly states on page 9 (about half way down the page) that projects eligible for assistance under the Section 320 authority, 603(c)(3), remain unchanged.
4. Chesapeake Watershed is not included as a 320 Estuary. I know it doesn't make logical sense, but it's the law. The cause goes back to the original CWA. The Chesapeake Bay was specifically mentioned in the CWA under Section 117. The Pungent Sound and the Great Lakes also have their own sections in the CWA and hence their watersheds cannot be considered 320 Estuaries. As a result of their separate sections in the CWA, each has its own independent grant funding in EPA's annual budget.

Privately-owned centralized treatment works located within a National 320 Estuary have always been eligible for CWSRF assistance-from a federal perspective. I think the misunderstanding is rooted in the fact that many states limited the types of projects they financed because of limited funds available. The economic downturn in recent years especially among smaller communities



- Section 320 projects can be either publicly or privately owned.
- Eligible costs are limited to capital costs.

The CWSRF considers planting trees and shrubs, purchasing equipment, environmental cleanups and the development and initial delivery of education programs as capital projects.

- Projects must have a direct benefit to the water quality of an estuary.

This includes protection of public water supplies and the protection and propagation of a balanced, indigenous population of shellfish, fish, and wildlife, and allows recreational activities, in and on water, and requires the control of point and nonpoint sources of pollution to supplement existing controls of pollution.

- Only the portions of a project that remediate, mitigate the impacts of, or prevent water pollution in the estuary watershed should be funded.

In many cases, water quality protection is combined with other elements of an overall project. Where the water quality portion of a project is clearly distinct from other portions of the project, only the water quality portion can be funded by the CWSRF.

Financial assistance opportunities under section 320 for certain categories of eligibilities, in addition to eligibilities under section 212 and section 319 authority:

#### 1. Stormwater:

Privately owned regulated capital stormwater projects are eligible, including traditional pipe, storage and treatment systems as well as green infrastructure. Projects include the control of the impacts of development through sediment controls such as filter fences, storm drain inlet protections, and temporary mulching and seeding of exposed land areas. Similarly, CWSRF loans may be used to protect operations from storm water exposure by covering operations with potential to impact water quality under a storm resistant shelter. Low impact development practices that reduce the post-development stormwater discharge are also eligible, including the removal of impervious pavement in favor of pervious surfaces.

#### 2. Water Conservation and Reuse:

Privately owned water efficiency and water reuse projects under section 320 are eligible. These projects help mitigate the water shortages associated with climate change. For instance, privately owned projects such as water meters, plumbing fixture retrofits in private buildings, efficient landscape irrigation equipment, gray water recycling and reuse, and distribution systems to recycle treated effluent are eligible.

3. Mining:

Privately owned, regulated mining projects that are required by NPDES permits are eligible.

4. Animal Feeding Operations:

Privately owned, regulated manure management projects on CAFOs that are required by NPDES permits are eligible.

5. Landfills:

Privately owned landfills with leachate collections systems and/or NPDES permits that predominantly receive municipal waste and serve a public purpose are eligible.

6. Trading:

The CWSRF can support water quality trading in National Estuaries. For additional information, see sections A.5. and B.8., above.

7. Atmospheric deposition:

The water quality portion of capital to mitigate air deposition of pollutants is eligible. See B.10., above, for more information.

8. Privately-Owned Municipal Wastewater Treatment and Other Purposes:

Privately owned, public purpose projects that serve community wastewater treatment needs, reduce wastewater flows to treatment works, and preserve or restore natural hydrology are eligible. For example, privately owned, public purpose wastewater treatment works are eligible. Energy conservation and efficiency measures described in section 212 that help minimize the carbon footprint of wastewater treatment are also eligible at privately owned wastewater treatment works.

**D. Interaction Among Eligibility Sections 212, 319 and 320.** Section 212 contains definitions of treatment works that originally served as the eligibilities of the wastewater construction grants program of the 1970-80's. The definitions in this section do not include the term "publicly-owned." This term is applied to section 212 eligibilities of the CWSRF program because it is specifically mentioned in section 603(c)(1) of Title VI. Nor does section 212 mention "public purpose" in the context of the definitions. It was simply understood that anything public-owned would serve a public purpose. Nevertheless, the 212 definitions could apply to privately owned, public purpose treatment works or conceivably to privately owned, private purpose works. But they could not be funded as section 212 projects. However, if such projects met the eligibility criteria of sections 319 or 320 they could be eligible under their authority.

## Eligibilities Paper Compiled 2-18-16, Pages 8 and 9:

### Centralized Wastewater Treatment

Eligible centralized wastewater treatment projects include: primary and secondary treatment, advanced treatment, sewer system, combined sewer overflow (CSO) correction, climate resilience<sup>1</sup>, and security. Eligibilities related to energy and water conservation (e.g., cogeneration systems) are addressed in other sections of the paper (see *Energy Conservation* and *Water Conservation*).

Primary/Secondary	Advanced	Sewer System	CSO Correction
<ul style="list-style-type: none"> <li>• Upgrade, repair, replacement, or installation/construction of new:               <ul style="list-style-type: none"> <li>○ Headworks</li> <li>○ Screening systems</li> <li>○ Grit chambers</li> <li>○ Clarifiers</li> <li>○ Biological treatment systems</li> <li>○ Biosolids dewatering and residuals handling equipment</li> </ul> </li> <li>• Pro rata share of capital costs of off-site co-digestion facilities that receive residuals from a treatment works</li> </ul>	<ul style="list-style-type: none"> <li>• Upgrade, repair, replacement, or installation/construction of new:               <ul style="list-style-type: none"> <li>○ Nutrient removal processes</li> <li>○ Filtration systems</li> <li>○ Disinfection processes</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Upgrade, repair, replacement, or installation/construction of new:               <ul style="list-style-type: none"> <li>○ Pipes</li> <li>○ Pump stations</li> <li>○ Force mains</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Installation of separate sanitary and storm sewers</li> <li>• Downspout disconnection</li> </ul>
Climate Resilience for Treatment Works			Security
<ul style="list-style-type: none"> <li>• Sea walls</li> <li>• Levies/dykes/berms</li> <li>• Relocation/elevation of certain assets or entire facility above current/projected flood stage</li> <li>• Installation of flood attenuation, diversion, or retention infrastructure within or beyond the footprint of a treatment works that protects the treatment works including floodwater channels/culverts, green infrastructure, and natural systems capable of mitigating a storm surge (e.g., barrier beach and dune systems, tidal wetlands, and living shorelines)</li> <li>• Installation of wind resistant features</li> <li>• Saltwater resistant equipment/components</li> <li>• Backup generators and fuel transport and storage tanks</li> <li>• Portable pumps</li> <li>• Floodwater pumping systems</li> <li>• Physical hardening of electrical systems/equipment</li> <li>• Dry floodproofing of structures</li> <li>• Elevated walls/caps for treatment tanks</li> <li>• Installation of redundant equipment/components</li> <li>• Overflow tanks/tunnels</li> <li>• Regionalization/Interconnections</li> </ul>			<ul style="list-style-type: none"> <li>• Fencing</li> <li>• Security cameras</li> <li>• Security lighting</li> <li>• Motion detectors</li> </ul>

<sup>1</sup> Projects throughout the paper may be considered climate resilience projects (e.g., green infrastructure, water conservation, etc.). The projects listed in this section are specific to treatment works.

Assistance may be provided:

- to any municipality or intermunicipal, interstate, or State agency for publicly owned centralized wastewater treatment projects. *Section 603(c)(1)*
- to any borrower for centralized wastewater treatment projects that implement a Section 320 CCMP. *Section 603(c)(3)*
- to any municipality or municipal entity for management of municipal wet weather discharges on an integrated watershed or subwatershed basis for the purpose of demonstrating the effectiveness of a unified wet weather approach. *Section 603(c)(7)*
- to any municipality or municipal entity for projects that increase resilience of POTWs. *Section 603(c)(7)*
- to any municipality or intermunicipal, interstate, or State agency for projects that reduce the energy consumption needs of a POTW including projects to correct inflow and infiltration (I/I) of collection systems<sup>2</sup> (e.g., privately-owned laterals). *Section 603(c)(8)*
- to any borrower for measures to increase the security of POTWs. *Section 603(c)(10)*
- to any qualified nonprofit entity to assist owners and operators of small and medium POTWs with centralized wastewater treatment projects. This includes construction activities as well as activities necessary to plan, develop, and obtain financing for CWSRF-eligible projects. *Section 603(c)(11)*

### **Final Interpretive Guidance WRRDA, Page 9:**

The FWPCA section 603(c) provides the project types eligible for CWSRF assistance. Each of the eleven project types is an independent eligibility with its own criteria and requirements. Treatment works projects, as defined in the FWPCA section 212, now incorporated in FWPCA Section 502(26), are subject to the following three requirements, regardless of which eligibility they are funded under:

- the State must agree to conduct an environmental review of the potential environmental impacts of all treatment works projects;
- the State must apply the prevailing wage provision (Davis-Bacon) to all treatment works projects; and
- the State must apply American Iron and Steel (AIS) to all treatment works projects.

Section 603(c)(1-3) The FWPCA section 603(c)(1-3) states:

- (1) to any municipality or intermunicipal, interstate, or State agency for construction of publicly owned treatment works (as defined in Section 212);
- (2) for the implementation of a management program established under section 319;
- (3) for development and implementation of a conservation and management plan under section 320; The projects eligible for assistance under the FWPCA sections 603(c)(1), 603(c)(2), and 603(c)(3) remain unchanged.

<sup>2</sup> There is no minimum reduction in energy consumption that must be achieved for the project to be eligible. Projects must achieve a 20% reduction in energy consumption to be categorically eligible for the Green Project Reserve.

*The following questions were asked during the presentation:*

Mr. Morrill asked Mr. Spacht how he currently feels concerning the questions he has asked during the previous meetings.

David Spacht, on behalf of Dian Taylor and Artesian Water Company, replied that he has a number of questions. He hopes that a meeting he has planned in the coming weeks will answer his questions.

Mr. Deputy commented that at the federal level, he is confident that the Clean Water SRF can provide assistance to investor owned utilities in section 320 of the Clean Water Act.

George Haggerty, New Castle County Executive, asked Mr. Spacht if he could write his questions down for the members.

Mr. Spacht replied that he has not written it down, but he can try to so members can review them.

Mr. Deputy noted that DNREC has an internal meeting with Artesian the next day. The meeting was set up to look at State investment strategies. The State planning office has different levels of infrastructure investments that they can make in the State. Their meeting is set to coordinate plans with Artesian and Sussex County, relative to investments in Sussex County that may be able to move forward and get an approval from the State planning office.

Next, Mr. Deputy moved on to the next documents in his presentation, Statewide Wastewater Needs 2016-2019; Clean Water State Revolving Fund (CWSRF) Loans Closed: FY 2005-2016; Drinking Water State Revolving Fund (DWSRF) Loans Closed: FY 2005-2015; Sussex, Kent, and New Castle Conservation Cost-Share Fund (Cover Crops) Legislative Breakdown 2015.

*The documents that Task Force members received are inserted below:*

Statewide Wastewater Needs 2016-2019

STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019 MAY 2016		Project	2016	2017	2018	2019	Total	Legislative Districts	
Municipality	2016		2017	2018	2019	Total	House	Senate	
New Castle County		Brandywine Hundred South Rehab Phase 1	\$8,500,000	\$500,000	\$500,000	\$500,000	\$8,500,000	1	2
		Brandywine Hundred South Rehab Phase 2	\$300,000	\$3,000,000	\$4,500,000	\$3,000,000	\$1,800,000	1	2
		South Christiana Interceptor Analysis	\$5,500,000	\$300,000	\$500,000	\$500,000	\$5,500,000	7	1
		Brandywine Hundred North Rehab Phase 1	\$300,000	\$500,000	\$500,000	\$500,000	\$1,800,000	7	1
		Brandywine Hundred North Rehab Phase 2	\$1,000,000	\$1,000,000	\$1,500,000	\$1,500,000	\$2,000,000	4,6,10,12	1,4,5
		Richardson Park Pump Station Upgrade	\$1,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	12,21,22,23	4,7,8,9
		Brandywine Interceptor Renovation	\$1,000,000	\$1,000,000	\$400,000	\$900,000	\$3,600,000	All*	All*
		Little Mill Basin Rehabilitation	\$900,000	\$900,000	\$900,000	\$900,000	\$3,600,000	All*	All*
		Stoney Creek Basin Rehabilitation	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$8,000,000	All*	All*
		Southern Sewer Service Area	\$700,000	\$750,000	\$750,000	\$750,000	\$2,250,000	All*	All*
		Pump Station Rehabilitation	\$700,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000	All*	All*
		Christiana River Force Main	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	All*	All*
		Countywide Manhole Rehabilitation	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000	All*	All*
		Asset Management	\$1,000,000	\$100,000	\$100,000	\$100,000	\$300,000	All*	All*
		DeIDOT Coordination Project	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	All*	All*
		Sewer Repairs and Rehabilitation II	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	All*	All*
		Countywide Trenchless Rehab	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000	All*	All*
		Glasgow Area Sewer Improvements	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	All*	All*
		Backwater Valve Improvements	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	All*	All*
		MOT Area Maintenance Base	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	All*	All*
	Wastewater Treatment Plants / Discharge	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$4,500,000	All*	All*	
	Mill Creek Interceptor Relief	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$8,000,000	All*	All*	
	Brandywine Hundred Clearwater Program	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$8,000,000	All*	All*	
	White Clay Creek Sewer Basin Rehabilitation	\$500,000	\$500,000	\$500,000	\$500,000	\$1,500,000	All*	All*	
	Pike Creek Improvements	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$9,000,000	All*	All*	
	General Sewer Improvements	\$800,000	\$800,000	\$800,000	\$800,000	\$2,400,000	All*	All*	
	Kirkwood Trunk Line Interceptor	\$28,000,000	\$28,000,000	\$28,000,000	\$28,000,000	\$84,000,000	15	12	
	Delaware City Treatment Plant Rehabilitation	\$800,000	\$800,000	\$800,000	\$800,000	\$2,400,000	15	12	
	<b>New Castle County -Subtotal:</b>		\$24,375,000	\$16,700,000	\$16,825,000	\$16,825,000	\$85,400,000		

All

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Statewide Wastewater Needs FY2016 through FY2019 051116.xlsx

Minutes prepared by Caitlyn Gordon, Legislative Aide  
 Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer





STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019

Municipality	Project	Year				Legislative Districts	
		2016	2017	2018	2019	House	Senate
Kent County	Treatment Plant Upgrades: TMDL Study for development of water standards Spray Irrigation, Land Acquisition and Permitting Replace Pumps and Valves Recycle PS 1 & 2 Bio Solids Capacity Expansion Replace Clarifier 1 & 2 Superstructure Air Blower System Optimization Guaranteed Energy Efficiency Project Conveyance System Upgrades: North Central Bypass	\$200,000 \$600,000 \$80,000 \$2,400,000 \$500,000 \$4,090,000 \$450,000 \$8,370,000	\$200,000 \$600,000 \$80,000 \$2,000,000 \$1,114,000 \$12,666,667 \$16,660,667	\$200,000 \$600,000 \$600,000	\$200,000 \$600,000	33 33 33 33 33 33 33 33	16 16 16 16 16 16 16 16
Kent County - Subtotal:		\$8,370,000	\$16,660,667	\$13,466,667	\$13,466,667	\$450,000	\$51,914,000
City of Harrington	Decommission Old Wastewater Lagoons Sewer Rehabilitations I&I Study and Projects	\$1,000,000 \$1,000,000 \$1,500,000	\$700,000 \$1,000,000			30 30 30	18 18 18
City of Harrington - Subtotal		\$3,500,000	\$1,700,000	\$0	\$0	\$0	\$5,200,000
Camden-Wyoming Sewer & Water Authority	Septic elimination, Existing homes, Route 10, and existing Tamarac/Burwood development Sanitary Sewer Survey, Flushing, video taping, and smoke testing of the sanitary sewer system. Replacement of Old North Road gravity sanitary sewer system, Approx. 1,400 LF sanitary sewer main and 9 manholes. Rehabilitation of existing manholes, Especially in flood prone areas Large-scale replacement of existing sanitary sewer collection system, Approx. 47,200 LF of vitrified clay Replacement of Mechanic Street gravity sanitary sewer system, Approx. 3,000 LF sanitary sewer main, 12 manholes, and 75 laterals	\$350,000 \$50,000 \$162,500 \$150,000 \$3,800,000 \$823,500				34 34 34 34 34 34	17 17 17 17 17 17
Camden-Wyoming - Subtotal		\$5,336,000	\$0	\$0	\$0	\$0	\$5,336,000

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STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019

MAY 2016

Municipality	Project	Year				Legislative Districts		
		2016	2017	2018	2019	Total	House	Senate
City of Dover	Tar Ditch Interceptor Upgrade (NOI)	\$350,000				\$350,000	31,32	17
	Lepore Road Sewer Upgrade (NOI)	\$50,000	\$50,000	\$250,000		\$300,000	31,32	17
	Rolling Acres Pump Station Upgrade	\$52,000	\$372,000			\$424,000	31,32	17
	Del Tech Pump Station Replacement (NOI)		\$52,000	\$384,000		\$436,000	31,32	17
	Silver Lake Pump Station Replacement (NOI)			\$52,000	\$396,000	\$448,000	31,32	17
	Walker Woods Pump Station Replacement (NOI)	\$360,500			\$52,000	\$412,500	31,32	17
	Retreat Pump Station Replacement	\$875,000	\$1,196,000	\$1,250,000	\$1,250,000	\$4,571,000	31,32	17
Inflow/Infiltration Removal/System Improvements	\$300,000				\$300,000	31,32	17	
Misc. Sewer System Improvements	\$1,937,500	\$1,670,000	\$1,936,000	\$1,698,000	\$7,241,500			
<b>City of Dover - Subtotal</b>								
Milford Sewer Authority	Fisher Ave Pump Station Rehab	\$750,000				\$750,000	36	18
	Misc Pump Station Rehabs		\$800,000			\$800,000	33,36	18
	Shawnee Acres Pump Station Replacement	\$1,000,000				\$1,000,000	36	18
	SCADA Integration		\$250,000			\$250,000	33,36	18
<b>City of Milford - Subtotal</b>								
Town of Clayton	I&I - Studying now, cost unknown	\$2,000,000				\$2,000,000	28	14
Town of Clayton - Subtotal	Minor Planned repair/Upgrades	\$4,000,000	\$0	\$0	\$0	\$4,000,000	28	14
Town of Smyrna	North Main Street Sewer Replacement, Replacement of approximately 386 linear feet of old sewer main and all service connections along N. Main.	\$500,000				\$500,000	28	14
	Greens Branch Pump Station Upgrades, Replacement of the existing failing shaft-driven dry pit pumps in Greens Branch Pump Station and upgrades of electrical controls at the West Cummins Street Sewer Replacement, Replacement of approximately 618 linear feet of old sewer main and all service connections along W. Cummins St.	\$750,000				\$750,000	28	14
	Water and Sewer Replacement (\$ Main St)	\$500,000				\$500,000	28	14
	<b>Town of Smyrna - Subtotal</b>							

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STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019

Municipality	Project	Year				Legislative Districts	
		2016	2017	2018	2019	House	Senate
Sussex County	Goslee Creek Pump Station	\$3,600,000	\$2,000,000			14	6
	Pump Station #210 and Force Main	\$6,000,000	\$2,000,000			14	6
	Herring Creek Sewer District	\$330,000	\$1,330,000	\$1,640,000		20	37
	Concord Road Sewer Expansion	\$1,400,000	\$400,000			39	21
	Route 26 Sewer	\$1,400,000	\$1,400,000	\$700,000		38	20
	Route 54 Extension	\$680,000	\$1,000,000			38	20
	Inland Bays RWF - Class A Sludge Phase 1 and 2	\$2,000,000	\$3,500,000			37	19
	Inland Bays RWF Expansion	\$700,000	\$1,200,000	\$6,000,000	\$6,000,000	37	19
	Dewey/Henlopen contribution to Rehobotho WWTP	\$700,000	\$800,000	\$2,500,000	\$6,000,000	14	6
	Chapel Green Oak Crest Farms	\$240,000	\$240,000	\$1,500,000		20	6
	Wolfe Neck Improvements		\$80,000	\$500,000	\$1,000,000	14	6
	Branch, Autumn and Tucks Road (Long Neck)		\$200,000	\$400,000	\$320,000	37	19
	Blackwater Creek Expansion		\$200,000	\$2,000,000	\$3,000,000	38	20
	Piney Neck Headworks		\$600,000	\$1,200,000		41	20
	Clayton Avenue Pump Station and Force Main		\$500,000	\$1,800,000	\$1,800,000	41	20
	Pump Station 45		\$400,000	\$700,000		39	21
	SCRWF Sand Filter Update		\$400,000	\$2,100,000		38	20
	Bay Farm Road Area Sewer			\$100,000	\$750,000	37	19
	Tanglewood/Oak Acres (Miller Creek)			\$1,520,000	\$1,261,000	38	20
	Delaware Avenue Sewer Expansion			\$450,000		41	20
Miller Creek Expansion (Beaver Dam)			\$500,000	\$2,300,000	38	20	
Joy Beach Sewer			\$500,000	\$2,000,000	14	6	
Millville Expansion			\$75,000	\$1,000,000	38	20	
Mulberry Knoll			\$2,813,062		38	20	
Bethany Forest			\$2,452,154		38	20	
<b>Sussex County - Subtotal</b>		<b>\$17,050,000</b>	<b>\$21,115,216</b>	<b>\$24,185,000</b>	<b>\$25,431,000</b>		<b>\$87,781,216</b>
City of Lewes	Donovan Smith 4" & 6" Lines	\$309,500				20	6
	New WWTP Outfall Pipe Renewal	\$350,000				20	6
	Manhole Replacement/Rehab	\$221,025				20	6
	Sewer Lift Station Renewal	\$202,000				20	6
	George HP Smith Park Walking Path Replacement	\$190,000				20	6
<b>City of Lewes - Subtotal</b>	<b>\$1,303,525</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$31,000</b>	<b>\$31,000</b>	<b>\$1,303,525</b>

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STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019									
Municipality	Project	Fiscal Year				Legislative Districts			
		2016	2017	2018	2019	Total	House	Senate	
City of Rehoboth Beach	Ocean Outfall, Construct ocean outfall from beach to diffuser located approximately 6,000 ft offshore Pump Station and Force Main , Construct new effluent pump station at WWTP and force main to new ocean Treatment Plant Upgrade Biosolids Upgrade	\$18,600,000 \$5,250,000 \$10,500,000 \$12,500,000 \$46,850,000	\$0	\$0	\$0	\$0	\$18,600,000 \$5,250,000 \$10,500,000 \$12,500,000 \$46,850,000	14 14 14 14	6 6 6 6
<b>City of Rehoboth Beach - Subtotal</b>									
City of Seaford	Oxic tank membrane replacement Lift station RTU replacement	\$32,000 \$7,000 \$39,000				\$32,000 \$7,000 \$39,000		39 39	21 21
<b>City of Seaford - Subtotal</b>									
Delmar Sewer Authority	Bi-State/Connelly Mill Pump Sta. Lab Cabinets - Restored Line Replacement / Slip Lining Pipe Stage Rd #2 Pump Station Winch to Raise Basket Pine St. /PS	\$1,719,611 \$4,020 \$1,575,000 \$700,786 \$2,300 \$4,001,717				\$1,719,611 \$4,020 \$1,575,000 \$700,786 \$2,300 \$4,001,717		40 40 40 40 40	21 21 21 21 21
<b>Town of Delmar - Subtotal</b>									
Town of Georgetown	(I&I) Related Sewer Project (Not Funded) Pump Station Upgrades and Force Main Improvements	\$2,500,000 \$2,500,000	\$300,000			\$2,500,000 \$2,500,000	\$300,000	37 37	19 19
<b>Town of Georgetown - Subtotal</b>									
Town of Selbyville	Miscellaneous WWTP Headworks Upgrades	\$1,500,000 \$1,500,000				\$1,500,000 \$1,500,000		41	20
<b>Town of Selbyville - Subtotal</b>									
Town of Bridgeville	WWTP Upgrade HVAC- Main Building, Unkn Qnty Raw Pump Wet Well, Pump Only Effluent Pump Contact Tank, Pump Only Sludge Pump Clarifier, Pump Only Comminutor, Assume 1 unit RBC Gearbox Replacement (2), Assume \$200K each Digester Mixer, Assume motor/mixer only Utility Mapping/Schedule, Unkn Qnty	\$11,600,000 \$100,000 \$30,000 \$30,000 \$30,000 \$50,000 \$400,000 \$100,000 \$100,000 \$12,440,000				\$11,600,000 \$100,000 \$30,000 \$30,000 \$30,000 \$50,000 \$400,000 \$100,000 \$100,000 \$12,440,000		35 35 35 35 35 35 35 35 35	19 19 19 19 19 19 19 19 19
<b>Town of Bridgeville - Subtotal</b>									

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STATEWIDE WASTEWATER NEEDS 2016 THROUGH 2019

MAY 2016

Municipality	Project	Year				Total	Legislative Districts	
		2016	2017	2018	2019		House	Senate
Town of Laurel	Miscellaneous Sewer Rehabilitation	\$250,000				\$250,000	40	21
	Miscellaneous Sewer Extensions	\$8,800,000				\$8,800,000	40	21
Town of Laurel - Subtotal		\$9,050,000	\$0	\$0	\$0	\$9,050,000		
Town of Millsboro	Pump Station Rehabs	\$250,000				\$250,000	41	20
	Stormwater Line Replacement	\$30,000				\$30,000	41	20
	I&I Study	\$500,000				\$500,000	41	20
	Sewer Line and MH Replacement	\$60,000	\$150,000			\$60,000	41	20
Town of Millsboro - Subtotal		\$840,000	\$150,000	\$0	\$0	\$990,000	41	20
Town of Milton	WWTP Replacement	\$6,400,000				\$6,400,000	20	6
Town of Milton - Subtotal		\$6,400,000	\$0	\$0	\$0	\$6,400,000		

New Castle County	\$67,153,900	\$57,330,000	\$16,900,000	\$17,575,000	\$158,958,900
Kent County	27,593,500	21,080,667	15,402,667	15,164,667	79,241,500
Sussex County	101,974,242	21,565,216	24,185,000	25,431,000	173,155,458
State of Delaware	\$196,721,642	\$99,975,883	\$56,487,667	\$58,170,667	\$411,355,858

	Collection &			Totals
	Conveyance	Treatment	Disposal	
New Castle County	\$125,483,900	\$33,255,000	\$220,000	\$158,958,900
Kent County	26,777,500	50,064,000	2,400,000	79,241,500
Sussex County	72,279,438	44,776,020	56,100,000	173,155,458
State of Delaware	\$224,540,838	\$128,095,020	\$58,720,000	\$411,355,858

## Clean Water State Revolving Fund (CWSRF) Loans Closed: FY 2005-2016

CWSRF Loans Closed: FY 2005 through FY 2016									
Borrower	Project No.	Loan Closing Date	Project	Wastewater	Stormwater	Senate District	House District		
<u>FY 2005</u>									
Town of Laurel	CW-1997-01	11/18/2004	Wastewater Treatment Plant Improvement Project	2,841,680		21	40		
City of Lewes	CW-2005-03	1/20/2005	Wastewater Treatment Facilities upgrade, expansion and system wide improvements	12,528,825		6	20		
Town of Georgetown	CW-2003-02	6/30/2005	Wastewater Treatment Facilities Improvements Project	4,600,000		19	37		
Town of Georgetown	CW-2003-01	6/30/2005	Wastewater Treatment Facilities Improvements Project	703,447		19	37		
				<u>20,673,952</u>	<u>0</u>				
<u>FY 2006</u>									
Sussex County	CW-2005-04	5/1/2006	South Ocean View wastewater collection station	4,800,000		20	38		
Sussex County	CW-2006-05	5/1/2006	North Millville Phase I Wastewater Collection System	8,000,000		20	38		
City of Lewes	CW-2006-01	6/29/2006	Sewer replacement projects	168,800		6	20		
				<u>12,968,800</u>	<u>0</u>				
<u>FY 2007</u>									
City of Harrington	CW-2001-01	8/9/2006	Wastewater Treatment Facility Project	600,000		18	30		
Town of Bridgeville	CW-2006-03	12/11/2006	Wastewater Treatment Plant Improvement Project	485,407		19	35		
				<u>1,085,407</u>	<u>0</u>				
<u>FY 2008</u>									
City of Seaford	CW-2006-04	5/22/2008	Sewer System Improvement and Waste Water Expansion Project	1,620,000		21	39		
Town of Millsboro	CW-2002-02	6/24/2008	WWTP Facility Phase I Construction Improvements	3,770,000		20	41		
				<u>5,390,000</u>	<u>0</u>				
<u>FY 2009</u>									
Sussex County	CW-2008-01	11/21/2008	Angola Neck Sewer District; Sewer Infrastructure and Conveyance System	15,000,000		6	14		
				<u>15,000,000</u>	<u>0</u>				

CWSRF Loans Closed

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CWSRF &amp; DWSRF Loans Closed FY2005 through FY2016.xlsx

**CWSRF Loans Closed: FY 2005 through FY 2016**

Borrower	Project No.	Loan Closing Date	Project	Wastewater	Stormwater	Senate District	House District
<b>FY 2010</b>							
12000031	Sussex County	10/7/2009	Johnson's Corner	5,083,986		20	38
12000032	City of Dover	12/22/2009	Various Wastewater Projects	5,581,058		17	31, 32
12000033	City of Milford	12/22/2009	North Front Street Sewer Replacement	989,070		18	33
12000034	Town of Millsboro	12/22/2009	Wastewater Reuse Project	250,000		20	41
12000035	Sussex County	12/30/2009	Oak Orchard Sanitary Sewer District	5,641,503		19	37
12000036	Sussex County	12/30/2009	Woodlands of Millsboro	475,783		20	41
12000038	Sussex County	2/8/2010	Inland Bays Regional Wastewater Treatment Plant Expansion	1,756,227		19	37
12000039	City of New Castle	2/8/2010	Stormwater Management Facility Retrofit, Washington Park and Buttonwood Dike		1,322,500	12	16,17
12000040	New Castle Cons. Dist.	2/8/2010	Wilmington Silverbrook Run CSO and Webb Street Flood Control Project		1,000,000	3	3,4,13
12000041	Challenge Program	2/8/2010	Construction Training and Education Center Project	190,000		2	2
12000053	Kent County	2/16/2010	Renewable Energy Park and UV Disinfection Wastewater Projects	15,527,296		16	33
12000045	Town of Smyrna	3/9/2010	Wastewater Projects	5,975,000		14	9,11,28
12500008	City of Wilmington	3/9/2010	Wastewater Treatment Plant Headworks Upgrade Project	2,800,000		2	2
12000043	Georgetown	3/19/2010	South Bedford Pump Station Upgrade Project	398,795		19	37
12000044	New Castle County	3/30/2010	Belltown and Bridleshire Wastewater Projects	2,121,233		8,10	22,27
12000048	New Castle County	3/30/2010	Municipal Stormwater Projects		410,000	8,10,12,13	5,15,22,25
				<u>46,789,951</u>	<u>2,732,500</u>		

**CWSRF Loans Closed: FY 2005 through FY 2016**

Borrower	Project No.	Loan Closing Date	Project	Wastewater	Stormwater	Senate District	House District
<u>FY 2011</u>							
12000042 City of Harrington	CW-2009-05	10/22/2010	Transfer of Wastewater to Kent County	1,992,675		18	30
12000046 Kent County	CW-2010-27	12/10/2010	WWTP Capacity Expansion and Nutrient Removal Upgrade Project	6,918,700		15	33
12000047 City of Dover	CW-2010-48	3/17/2011	Wastewater System Improvement Projects	765,060		17	31,32
12000056 City of Seaford	CW-2010-46	5/16/2011	Storm Water and Flood Control Systems Improvements Projects		2,579,004	21	39
12000049 City of Harrington	CW-2009-05	6/7/2011	Wastewater Treatment Facilities Project	600,000		18	30
12000051 Town of Middletown	CW-2010-39	6/17/2011	Retention Pond Improvement Project	359,000		10	8
				<u>10,635,435</u>	<u>2,579,004</u>		
<u>FY 2012</u>							
12000052 Dewey Beach	CW-2010-38	9/1/2011	Bayard Avenue Flood Mitigation Project		450,000	6	14
12000054 City of Wilmington	CW-2011-03	5/11/2012	Kentmere Parkway Sewer Separation Project	1,200,000		1	4
12000055 City of Wilmington	CW-2011-02	5/11/2012	Wastewater Treatment Plant Influent Flow Metering Project	1,500,000		2	2
				<u>2,700,000</u>	<u>450,000</u>		
<u>FY 2013</u>							
12000057 Kent County - Murderkill	CW-2010-33	8/14/2012	Murderkill Wetland/Nutrient Reduction Project	633,000		16	34
12000058 Kent County - East Dover	CW-2011-01	8/14/2012	East Dover Wastewater Construction Project	1,423,107		17	32
12000059 Kent County - Land Conservation	CW-2012-06	8/14/2012	Spring Creek Land Conservation Project	1,200,000		16	33
12000060 Millsboro - Beneficial Reuse	CW-2012-01	8/15/2012	Effluent Transmission Pipeline & Disposal Site Project	6,336,800		20	41
12000062 City of Rehoboth	CW-2011-06	10/30/2012	Sanitary Sewer Line Replacement Project	450,000		6	14
12000063 City of Wilmington	CW-2012-04	5/9/2013	Renewable Energy Biosolids Co-Gen Project	36,060,000		2	2
				<u>46,102,907</u>	<u>0</u>		

CWSRF Loans Closed

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**CWSRF Loans Closed: FY 2005 through FY 2016**

Borrower	Project No.	Loan Closing Date	Project	Wastewater	Stormwater	Senate District	House District
<b>FY 2014</b>							
12000064 Kent County	CW-2012-05	10/11/2013	Hilltop Mobile Home Wastewater Construction Project	946,000		16	34
12000065 New Castle County	CW-2010-08	5/9/2014	Municipal Stormwater Projects	946,000	340,000	8,10,12,13	5,15,22,25
<b>FY 2015</b>							
11000001 DNREC Parks & Rec.	CW-2013-01	7/18/2014	Cape Henlopen State Park Sanitary Sewer Lining (Phase II) Project	784,576		6	14
12000066 Sussex County	CW-2014-01	4/22/2015	Angola North Sewer Expansion Project	6,697,774		6	14
<b>FY 2016</b>							
11000002 DNREC Parks & Recreation	CW-2014-05	11/20/2015	Lums Pond Improvement Project	5,660,340		12	27
12000066 Allen Harim Foods, LLC	CW-2015-02	1/21/2016	Harbeson Wastewater Expansion	8,394,000		6	20
12000067 Allen Harim Foods, LLC	CW-2015-01	1/21/2016	Wastewater Reuse Project	3,200,000		6	20
				17,254,340	0		
				187,029,142	6,101,504		

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## Drinking Water State Revolving Fund (DWSRF) Loans Closed: FY 2005-2015

DWSRF Loans Closed: FY 2005 through FY 2015									
Borrower	Project No.	Loan Closing Date	Project	Drinking Water	Senate District	House District			
<u>FY 2005</u>									
21000014 City of Lewes #1	DW-2005-08	1/20/2005	Elevated storage tank	908,926	6	20			
21000020 Town of Smyrna #2	DW-2006-47	5/16/2005	Elevated Storage Tank Replacement Project	1,725,582	14	28			
21000015 Town of Blades #2	DW-2005-49	6/15/2005	Drinking Water Facilities Improvement Project	84,343	21	39			
21000016 Town of Georgetown	DW-2005-57	6/30/2005	Not identified in review	93,062	19	37			
				<u>2,811,913</u>					
<u>FY 2006</u>									
22000009 Tidewater Utilities # 4	DW-2005-62	7/25/2005	Angola District and the Chimney Hill & Hillside	678,429	6,15,16	14,30,33,34			
21000017 Town of Dagsboro #2	DW-2005-67	8/10/2005	Distribution system	560,481	20	41			
21000018 City of Lewes #2	DW-2005-68	8/10/2005	Distribution improvements	274,271	6	20			
21000019 City of Wilmington #2	DW-2005-76	9/16/2005	Membranes at Brandywine plant	13,700,000	1,2,3,4	1,2,3,4			
22000011 Tidewater Utilities # 5	DW-2006-51	5/31/2006	West Bay Park Project	974,103	6	14			
				<u>16,187,284</u>					
<u>FY 2007</u>									
21000023 City of Delaware City	DW-2006-73	7/24/2006	Water System Improvement Project	273,237	12	15			
21000024 City of Wilmington	DW-2006-103	12/22/2006	Porter Water Treatment Plant	2,548,501	5	6			
21000030 City of Wilmington	DW-2006-106	12/22/2006	Water Main Improvement Project	1,246,499	1,2,3,4	1,2,3,4			
21000026 City of Rehoboth Beach	DW-2007-26	4/19/2007	Wells and treatment plant upgrades	5,000,000	6	14			
21000025 City of Wilmington #5	DW-2007-31	6/22/2007	Water Main Improvement Project	3,185,000	1,2,3,4	1,2,3,4			
				<u>12,253,237</u>					

DWSRF Loans Closed

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DWSRF Loans Closed: FY 2005 through FY 2015

Borrower	Project No.	Loan Closing Date	Project	Drinking Water	Senate District	House District
<u>FY 2008</u>						
22000012	DW-2007-59	12/21/2007	Chimney Hill Distribution upgrades	140,000	15	30
22000013	DW-2007-60	12/21/2007	Oak Meadows Distribution upgrades	395,036	20	37
21000027	DW-2008-32	6/30/2008	Water System Improvement Project	1,556,951	20	41
				<u>2,091,987</u>		
<u>FY 2009</u>						
21000028	DW-2009-05	2/20/2009	Brandywine Membrane Filtration Plant Project	18,975,000	3	2
21000031	DW-2009-19	6/5/2009	Water System Improvement Project	2,467,106	21	40
21000032	DW-2009-25	6/25/2009	Water System Improvement Project	206,830	19	30
21000033	DW-2009-26	6/25/2009	Water System Improvement Project	509,978	18	35
21000034	DW-2009-27	6/25/2009	Water System Improvement Project	2,602,500	20	41
				<u>24,761,413</u>		

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DWSRF Loans Closed: FY 2005 through FY 2015

Borrower	Project No.	Loan Closing Date	Project	Drinking Water	Senate District	House District
<u>FY 2010</u>						
21000035 City of Seaford	DW-2009-28	12/30/2009	Water System Improvement Project	2,790,831	21	39
21000036 Town of Smyrna	DW-2009-29	12/30/2009	Water System Improvement Project	3,768,000	14	28
21000038 City of Dover	DW-2010-22	2/8/2010	Water System Improvement Project	2,404,017	17	28,31,32
21000039 Town of Delmar	DW-2010-38	2/8/2010	Water System Improvement Project	400,206	21	40
21000040 Town of Laurel #3	DW-2011-10	2/8/2010	Water System Improvement Project	515,834	21	40
21000041 Town of Middletown	DW-2011-13	2/8/2010	Water System Improvements and Upgrades Projects	2,186,000	10	8
22000014 Artesian Water Co. # 4	DW-2010-07	2/12/2010	Water System Improvement Project	2,993,211	4,7	22,4
21000037 City of Wilmington	DW-2009-30	2/16/2010	Water System Improvement Project	8,899,999	1,2,3,4	1,2,3,4
21000053 City of Wilmington # 11	DW-20112-21	2/16/2010	Water Main Improvements - Phase II - Project	2,000,000	1,2,3,4,	1,2,3,4
22000016 Tidewater Utilities # 8	DW-2010-10	2/16/2010	Generals Green Project	1,114,800	16	32
21000044 Town of Georgetown # 2	DW-2011-29	3/9/2010	Service Line Replacement Project	2,199,410	19	37
22000008 Tidewater Utilities # 3	DW-2004-14	3/9/2010	No recorded project	732,400		
21000042 City of Wilmington # 8	DW-2011-17	3/19/2010	Water Mains Improvements Project	2,500,000	1,2,3,4	1,2,3,4
21000043 City of Wilmington # 9	DW-2011-18	3/30/2010	Filter Plants Improvements Project	2,500,000	3	2
21000045 City of Milford # 1	DW-2012-08	3/30/2010	Water System Improvement Project	45,000	18	33
				<u>35,049,708</u>		

DWSRF Loans Closed

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DWSRF Loans Closed: FY 2005 through FY 2015

Borrower	Project No.	Loan Closing Date	Project	Drinking Water	Senate District	House District
<u>FY 2011</u>						
21000046 City of Milford #2	DW-2012-09	12/10/2010	Improvements to Drinking Water System Project	4,000,000	18	33
21000047 Town of Selbyville	DW-2012-10	3/17/2011	Improvements to Drinking Water System Project	1,400,000	20	41
22000017 Tidewater Utilities # 9	DW-2011-06	3/22/2011	Angola by the Bay water system improvement project	2,711,500	6	14
22000019 Southern Shores Water Company, LI	DW-2011-07	3/22/2011	Water Treatment Plant Project	1,414,852	20	38
21000055 Town of Georgetown # 4	DW-2012-24	5/16/2011	King Street Water Treatment Facility Project	3,300,000	19	37
21000048 Town of Georgetown # 3	DW-2012-13	6/7/2011	South Railroad Avenue Well & Treatment Facility Project	1,595,590	19	37
21000050 Town of Blades # 3	DW-2012-15	6/17/2011	Service Line and Main Replacement Project	375,000	21	39
				<u>14,796,942</u>		
<u>FY 2012</u>						
22000018 Artesian Water Co. # 5	DW-2011-26	7/1/2011	Water System Improvement Project	2,585,269	12,7,9	17,13,19
21000051 Town of Greenwood # 2	DW-2012-16	9/1/2011	Water System Improvement Project	175,432	18	35
21000049 Town of Middletown # 2	DW-2012-14	3/30/2012	Water System Improvement Project	825,000	10	8
21000052 City of Wilmington # 10	DW-2012-20	5/11/2012	Water System Improvement Project	2,500,000	1,2,3,4	1,2,3,4
21000054 Town of Delmar # 2	DW-2012-23	5/11/2012	Back-Up Well Replacement	375,800	21	40
				<u>6,461,501</u>		

DWSRF Loans Closed

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DWSRF Loans Closed: FY 2005 through FY 2015

Borrower	Project No.	Loan Closing Date	Project	Drinking Water	Senate District	House District
<u>FY 2013</u>						
21000056	DW-2012-39	12/11/2012	Elevated Water Storage Tank Project	2,600,000	20	38
21000057	DW-2013-04	2/15/2013	East/West Commerce Street Water Main Replacement Project	1,156,275	14	28
21000058	DW-2013-05	2/20/2013	Transite Water Main Replacement Project	1,116,675	21	40
21000059	DW-2013-07	5/10/2013	Grove Street Distribution Upgrades Project	616,890	21	40
				<u>5,489,840</u>		
<u>FY 2014</u>						
21000064	DW-2014-05	4/30/2014	Water Main Improvements - Phase II - Project	2,500,000	1,2,3,4	1,2,3,4
21000065	DW-2014-08	5/14/2014	Improvements to Drinking Water System Project	2,526,300	20	41
21000066	DW-2014-04	5/14/2014	Water Main Improvements	1,194,300	19	30
				<u>6,220,600</u>		
<u>FY 2015</u>						
21000067	DW-2014-09	10/10/2014	Water Main Replacement on Frazier and Mt. Vernon Sts.	537,500	14	28
21000068	DW-2014-10	10/21/2014	Transmission and Distribution Water Improvements	4,000,000	1,2,3	1,2
21000069	DW-2015-01	5/22/2015	Transite Water Replacement	1,171,800	21	40
				<u>5,709,300</u>		
				<u>131,833,726</u>		

DWSRF Loans Closed

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*The following questions were asked during the presentation:*

Brenna Goggin, Delaware Nature Society, referenced the *Sussex, Kent, and New Castle Conservation Cost-Share Fund (Cover Crops) Legislative Breakdown 2015*, clarifying that cover crops are not the only cost-share program that benefits.

Bob Zimmerman, member of the public on behalf of DNREC, replied not at all, agreeing there are other cost-share programs that benefit from funding.

Mr. Morrill asked how much federal cover crop money did the State leave on the table because they couldn't match it the past year.

Mr. Zimmerman responded that in the past year, nothing. However, the federal dollars take over much bigger projects than cover crops.

Joseph Corrado, Delaware Contractor's Association, asked if Mr. Zimmerman could quantify the State's other funding needs.

Mr. Zimmerman replied that there have been historically a couple of conservation districts. New Castle County does a lot of drainage and flooding type BMPs (Best Management Practices).

Mr. Corrado asked in terms of needs, if Mr. Zimmerman knew what that number would be.

Mr. Zimmerman replied that he does not have one on the top of his head but will get back to Mr. Corrado with an answer.

Michael Riemann, Delaware Homebuilders Association, asked how the impact fees that are collected by the municipalities and counties work with the plan Mr. Deputy presented. He asked if the numbers on the sheet were the total project costs, or if it was only the money that the State allocates in addition to the counties and municipalities.

Mr. Deputy replied that they are estimated capital costs for total projects.

Next, Mr. Deputy moved onto the next document in DNREC's presentation, Hazardous Substance Cleanup Act (HSCA) and WATAR Project Needs, and introduced Marjorie Croft from DNREC who presented on this document.

*The document that Task Force members received is inserted below:*

Hazardous Substance Cleanup Act (HSCA) and WATAR Project Needs

Project Name	Project Category	State Cost	House District	Senate District	Comments
"A" Street Ditch	WATAR	\$2.0	16	2	On perimeter of SIWVA; properly functioning tide gate critical to prevent recontamination.
Scull Property/Tar Branch	HSCA/WATAR	\$0.5	32	17	Coordinated flood mitigation and remediation/restoration of Tar Branch. Affects Saint Jones.
RWF Yorklyn	Brownfield/ WATAR	\$2.0	12	04, 08	Significant eco-risk to Red Clay Creek; clean-up coordinated with park development; money needed to verify clean-up and TMDL compliance.
South Wilmington Wetlands	Brownfield/ WATER	\$3.2	16	2	Multiple objectives: flood mitigation, remediation, community support.
Governor Bacon	HSCA	\$3.0	15	12	Major opportunity for restoration project along banks of Delaware River.
Christina River / Wilmington Waterfront Targeted Remediation	WATAR	\$25.0	12, 16	02, 03, 13	Treatment based on ongoing investigations with focus on sediment hot spots; potential for recontamination is an important consideration.
Del Chapel Zinc	Brownfield/ WATAR	\$2.0	23	8	Opportunity to partner with UD DENIN; supplemental in-situ remediation necessary for groundwater and sediment.
Amtrak West Yard	VCP/WATAR	\$1.0	2	3	Onsite contamination and offsite release confirmed; located immediately upstream of Peterson Marsh.
Little Mill Creek	HSCA/WATAR	\$3.0	2	3	Testing to document effectiveness of remedy implemented in conjunction with USACE flood mitigation project.
Amtrak Wilmington Maintenance Yard	VCP/WATAR	\$5.0	2	2	Significant eco. and wildlife risks on-site; significant offsite transport and human health risk.
Red Lion Creek Sediment (Metachem)	NPL / WATAR	\$10.0	15, 17	12	Significant eco, wildlife, and human health risk; WATAR actions to follow EPA sediment remedy.
Shellpot Creek Sediment	VCP/WATAR	\$10.0	2	2	Significant eco, wildlife, and human health risk; WATAR actions to be followed by AMTRAK cleanup.
PCB Sewershed Track Back	WATAR	\$5.0	Multiple NCC and Cow	Multiple NCC and Cow	Funding for design & installation of GAC unit to reduce PCB load to City of Wilmington wastewater treatment plant; effects Del R PCB TMDL.
PCB Mass Loading	WATAR	\$3.0	MultipleStatewide Prioritization	MultipleStatewide Prioritization	Multiple sources may be identified. Funding for verification and remedy evaluation.
Homestead Campground	HSCA	\$0.8	20	6	TCE plume impacting drinking water supplies. Trying to identify source.
Pearson's Corner	HSCA	\$0.5	29	17	VOCs in drinking water supply. Trying to identify source.
Hessler Property	HSCA	\$4.6	16	2	PAHs, metals, VOCs and PCBs potentially impacting a drainage ditch that flows into the Christina River.
Estimated Project Cost (millions)		\$80.6			

HSCA and WATAR Project Needs 05/01/16.xlsx

Mr. Zimmerman presented a document to Task Force members, the 21<sup>st</sup> Century Funded Projects.

The document that Task Force members received is inserted below:

**21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement**

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2014-N-1	Port Penn Dike Rehabilitation	RC&D 21st Century	\$ 3,000,000	TBD	\$ 152,222	\$ 2,850,000		9	14
2014-N-2	Westminster-Cheletenham Bridge	RC&D 21st Century	\$ 420,000	TBD	\$ 420,103			4	7
2012-N-3	DuRoss Heights	RC&D 21st Century	\$ 225,000	\$ 150,000	\$ 184,000			17	13
2014-N-4	Rutherford - BOA Pond Expansion	RC&D 21st Century	\$ 295,000	\$ 279,730	\$ 16,000			18	9
2008-N-5	Bayview Beach flood protection	RC&D 21st Century	\$ 750,000	\$ 200,000	\$ 200,000			8	10
2015-N-6	Herring Branch Tax Ditch	RC&D 21st Century	\$ 80,000	\$ 10,000	\$ -			11	14
2017-N-7	1609 Joe Goldsborough Road	RC&D 21st Century	\$ -		\$ -			11	14
2017-N-8	185 Blackbird Station Road	RC&D 21st Century	\$ -		\$ -			11	14
2016-N-9	205 Union Church Road	RC&D 21st Century	\$ 25,900		\$ -			9	14
2017-N-10	3323 Silverside Road	RC&D 21st Century	\$ 36,500		\$ -			10	5
2016-N-11	466 Valley Road	RC&D 21st Century	\$ 25,575		\$ -			22	8
2016-N-12	Becks Woods - 26 Yosemite Drive	RC&D 21st Century	\$ 16,700		\$ 284			15	12
2017-N-13	Brandywine Park Improvements	RC&D 21st Century	\$ 1,000		\$ -			4	3
2016-N-14	Caravel Farms - Debra Drive	RC&D 21st Century	\$ 29,000		\$ 1,955			27	12
2016-N-15	Centennial - Centennial Circle	RC&D 21st Century	\$ 15,000		\$ 932			4	4
2016-N-16	Chapel Hill - 9 St. Regis Drive	RC&D 21st Century	\$ 12,900		\$ 1,250			23	8
2017-N-17	City of Wilmington Drainage Improvements	RC&D 21st Century	\$ 1,000		\$ -				
2017-N-18	Delaplaine Manor - 231 Delaplaine Avenue	RC&D 21st Century	\$ 12,000		\$ -			21	9
2017-N-19	Devonshire - Rockfield Drive	RC&D 21st Century	\$ 37,500		\$ -			10	5
2017-N-20	Drexel - 3210 Drexel Drive	RC&D 21st Century	\$ 12,800		\$ -			10	5
2017-N-21	Dunleith Community Drainage	RC&D 21st Century	\$ 96,500		\$ 26,018			16	2
2017-N-22	Edgemoor Gardens - Rysing Drive	RC&D 21st Century	\$ 5,000		\$ -			6	1

21st Century Funded Projects, and Projects Needs: Agricultural; Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2017-N-23	Estates of Corner Ketch - Drainage Improvements	RC&D 21st Century	\$ 47,800		\$ -			23	8
2017-N-24	Fairways at Vandegrift - Bluebird Haven	RC&D 21st Century	\$ 6,000		\$ -			9	14
2017-N-25	Fox Fire - Foxfire Drive	RC&D 21st Century	\$ 5,800		\$ -			22	4
2017-N-26	Huntington - 125 Torington Way	RC&D 21st Century	\$ 23,300		\$ -			26	11
2016-N-27	Meadow Glen - 326 Meadow Glen Drive	RC&D 21st Century	\$ 14,200		\$ -			27	12
2017-N-28	Roseville Park - 107 Chestnut Ave.	RC&D 21st Century	\$ 5,500		\$ -			21	9
2017-N-29	Roseville Park - 129 & 131 Rose Circle	RC&D 21st Century	\$ 26,800		\$ -			21	9
2016-N-30	Rutherford - 123 Greenfield Road	RC&D 21st Century	\$ 9,000		\$ 5,903			18	9
2016-N-31	Scottfield - 1216 Pinefield Road	RC&D 21st Century	\$ 21,800		\$ -			24	11
2017-N-32	Timber Farms - 618 Timber Wood Blvd.	RC&D 21st Century	\$ 9,500		\$ -			26	11
2017-N-33	West Chestnut Hill Road - Maple Square Mobile Home Park	RC&D 21st Century	\$ 28,800		\$ -			25	10
2017-N-34	Westwoods SWMP	RC&D 21st Century	\$ 175,000		\$ -			12	4
2017-N-35	Whites Village - 2601 Beech Avenue	RC&D 21st Century	\$ 24,500		\$ -			10	1
2017-N-36	Woodshade - 124 Woodshade Drive	RC&D 21st Century	\$ 10,700		\$ -			26	11
2017-N-37	Ballymeade Drainage	RC&D 21st Century	\$ 1,000		\$ -			10	5
2017-N-38	Afton - Fairhope Road	RC&D 21st Century	\$ 1,000		\$ -			10	5
2017-N-39	Northgate	RC&D 21st Century	\$ 1,000		\$ -			10	5
2017-N-40	Chapelcroft - Austin Road	RC&D 21st Century	\$ 1,000		\$ -			10	5
2017-N-41	Barretts Run Ponds	RC&D 21st Century	\$ 1,000		\$ -			26	11
2017-N-42	Becks Pond	RC&D 21st Century	\$ 1,000		\$ -			26	11
2017-N-43	Black Diamond Road Drainage	RC&D 21st Century	\$ 1,000		\$ -			11	14

21st Century Funded Projects, and Projects Needs: Agricultural; Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2017-N-44	Bristol Place Drainage	RC&D 21st Century	\$ 1,000		\$ -			27	12
2017-N-45	Castleshire - Dandenog Drive	RC&D 21st Century	\$ 1,000		\$ -			21	7
2017-N-46	Cotswold Hills	RC&D 21st Century	\$ 15,000		\$ -			22	8
2017-N-47	Drummond Ridge - Emery Court	RC&D 21st Century	\$ 1,000		\$ -			21	9
2017-N-48	Elmwood Pond	RC&D 21st Century	\$ 1,000		\$ -			24	9
2017-N-49	Gender Woods - Cypress Drive	RC&D 21st Century	\$ 1,000		\$ -			24	11
2017-N-50	Grantchester Ponds	RC&D 21st Century	\$ 1,000		\$ -			22	8
2017-N-51	Little Falls Village	RC&D 21st Century	\$ 96,000		\$ -			4	7
2017-N-52	Owis Ridge Pond	RC&D 21st Century	\$ 1,000		\$ -			12	4
2017-N-53	Perch Creek Ponds	RC&D 21st Century	\$ 1,000		\$ -			27	10
2017-N-54	Sherwood Forest - Stature Drive	RC&D 21st Century	\$ 1,000		\$ -			24	11
2017-N-55	Timber Farms - 623 Timber Wood Blvd.	RC&D 21st Century	\$ 1,000		\$ -			26	11
2017-N-56	Westbrite - Westbrite Court	RC&D 21st Century	\$ 1,000		\$ -			10	5
2017-N-57	Windy Hills - Dillwyn Road	RC&D 21st Century	\$ 1,000		\$ -			24	9
2015-N-58	Boxwood Road	RC&D 21st Century	\$ 10,000	\$ 10,000	\$ -			13	7
2015-N-59	Elsmere - Sycamore Avenue	RC&D 21st Century	\$ 7,500	\$ 7,500	\$ -			13	7
2015-N-60	798 Blackbird Station Road	RC&D 21st Century	\$ 186,000	\$ 26,500	\$ -			11	14
2015-N-61	White Clay Creek Sate Park - Dr. mp.	RC&D 21st Century	\$ 68,700	\$ 61,830	\$ 99,869			21	9
2016-N-62	Guthrie Tax Ditch	RC&D 21st Century	\$ 55,000	\$ 20,000	\$ 35,000			27	10,12
2016-N-63	Countryside Farms Tax Ditch	RC&D 21st Century	\$ 30,000	\$ 5,000	\$ 25,000			27	12
2016-N-64	David's Corner Tax Ditch	RC&D 21st Century	\$ 102,000	\$ 2,000	\$ 100,000			9	14

**21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement**

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2016-N-65	130 Upper Pike Creek Road	RC&D 21st Century	\$ 120,000	\$ 30,000	\$ 30,000			21	9
2016-N-66	600 N. DuPont Parkway	RC&D 21st Century	\$ 12,500	\$ 3,125	\$ 3,125			17	12
2016-N-67	765 Paddock Road	RC&D 21st Century	\$ 37,200	\$ 9,300	\$ 9,300			9	14
2016-N-68	Beacon Hill - East Court	RC&D 21st Century	\$ 38,500	\$ 9,625	\$ 9,625			10	5
2016-N-69	Carrcroft Drainage Improvements	RC&D 21st Century	\$ 210,000	\$ 52,500	\$ 52,500			1	1
2016-N-70	Channin - 2501 Ruthwell Road	RC&D 21st Century	\$ 5,000	\$ 1,250	\$ 1,250			10	5
2016-N-71	Chestnut Hill Estates - 62 East Stephen Drive	RC&D 21st Century	\$ 38,250	\$ 9,563	\$ 10,524			24	11
2016-N-72	Christina River - Christiana Flood Study	RC&D 21st Century	\$ 42,000	\$ 10,500	\$ 10,500			18	13
2016-N-73	Country Creek - 444 Barley Drive	RC&D 21st Century	\$ 8,100	\$ 2,025	\$ 2,025			26	11
2016-N-74	Coventry - Dunsinane Drive	RC&D 21st Century	\$ 25,400	\$ 6,350	\$ 6,350			18	13
2016-N-75	Governor Printz & Rolling Road	RC&D 21st Century	\$ 39,000	\$ 9,750	\$ 9,750			6	1
2016-N-76	Harmony Hills - Kingsley Drive	RC&D 21st Century	\$ 44,000	\$ 11,000	\$ 11,000			21	9
2016-N-77	Liftwood - 4657 Norwood Drive	RC&D 21st Century	\$ 20,200	\$ 5,050	\$ 5,050			6	5
2016-N-78	Melody Meadows - Melody Drive and Nola Lane	RC&D 21st Century	\$ 62,850	\$ 15,713	\$ 15,713			27	10
2016-N-79	Norwegian Woods - Penney Lane	RC&D 21st Century	\$ 13,000	\$ 3,250	\$ 3,250			26	11
2016-N-80	Robscott Manor - 8 Aldershot Drive	RC&D 21st Century	\$ 22,600	\$ 5,650	\$ 5,650			25	10
2016-N-81	Rolling Meadows - 900 & 902 Clydesdale Drive	RC&D 21st Century	\$ 24,800	\$ 6,200	\$ 6,200			15	12
2016-N-82	Rolling Meadows - 908 Clydesdale Drive	RC&D 21st Century	\$ 5,500	\$ 1,375	\$ 1,375			15	12
2016-N-83	Rutherford - 4 Rolling Drive	RC&D 21st Century	\$ 74,000	\$ 18,500	\$ 18,500			18	9
2016-N-84	Shelley Farms - Ballad Drive	RC&D 21st Century	\$ 16,300	\$ 4,075	\$ 4,075			27	10
2016-N-85	Talleybrook - 3145 Summerset Road	RC&D 21st Century	\$ 7,500	\$ 1,875	\$ 1,875			10	5

21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2017-N-86	Massey's Church Tax Ditch	RC&D 21st Century	\$ 24,000	\$ 4,000	\$ -	\$ 20,000		11	14
2017-N-87	Drawyer's Branch Tax Ditch	RC&D 21st Century	\$ 60,000	\$ 10,000	\$ -	\$ 50,000		8	10
2017-N-88	Jefferson Farms Tax Ditch	RC&D 21st Century	\$ 20,000	\$ 5,000	\$ -	\$ 15,000		16	2
2009-N-89	Branch Canal Pedestrian Path	RC&D 21st Century	\$ 1,474,000	\$ 265,000	\$ 232,742			9	14
2014-N-90	Dragon Run Tide Gate	RC&D 21st Century	\$ 500,000	\$ 100,000	\$ 100,000			15	12
2006-N-91	Rosemont-Dumont Road	RC&D 21st Century	\$ 90,000		\$ 196,215			13	7
2016-N-92	Melody Meadows - 70 Stardust Drive	RC&D 21st Century	\$ 14,350	\$ 3,588	\$ 3,952			27	10
2006-N-93	Green Valley - 2nd Street	RC&D 21st Century	\$ 220,000	\$ 55,000	\$ 288,633			21	9
2014-N-94	Breezeewood II - Ditch Cleanout/Sanitary Sewer Crossing	RC&D 21st Century	\$ 209,000	\$ 154,000	\$ 92,734			11	24
2006-N-95	Rosell-Washington Avenue	RC&D 21st Century	\$ 53,200	\$ 53,200	\$ -			13	7
2015-N-96	Porter Road Stormwater Management Pond	RC&D 21st Century	\$ 57,400	\$ 57,400	\$ 3,979			27	12
2013-N-97	WCC State Park - Drainage Improvement	RC&D 21st Century	\$ 68,700	\$ 61,830	\$ -			21	9
2014-N-98	Valley Run - Thistle Court	RC&D 21st Century	\$ 30,500	\$ 22,750	\$ 13,821			10	5
2015-N-99	Green Valley - Upper Valley Lane	RC&D 21st Century	\$ 22,000	\$ 22,000	\$ 10,340			21	9
2006-N-100	Roselle - Washington Avenue	RC&D 21st Century	\$ 53,200	\$ 53,200	\$ 4,004			12	7
2015-N-101	Norwegian Woods - Savoy Road	RC&D 21st Century	\$ 17,200	\$ 12,200	\$ 9,869			26	11
2016-N-102	Caravel Woods - 106 Wortham Lane	RC&D 21st Century	\$ 5,500	\$ 1,375	\$ 15,607			27	12
2016-N-103	Chalfonte - 2522 Eaton Road	RC&D 21st Century	\$ 5,000	\$ 1,250	\$ 6,727			10	5
2016-N-104	Delaware City - Reybold Drive	RC&D 21st Century	\$ 39,350	\$ 9,838	\$ 27,173			15	12
2016-N-105	Kingsridge - Empire Drive	RC&D 21st Century	\$ 35,950	\$ 8,988	\$ 8,988			7	5
2016-N-106	Montchanin - Carpenters Row	RC&D 21st Century	\$ 38,600	\$ 9,650	\$ 31,016			4	4

Minutes prepared by Caitlyn Gordon, Legislative Aide  
 Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer

21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2016-N-107	Rambleton Acres - 38 Holden Drive	RC&D 21st Century	\$ 18,100	\$ 4,525	\$ 4,525			5	13
2016-N-108	Red Bud Court Drainage Improvements	RC&D 21st Century	\$ 31,100	\$ 7,775	\$ 7,775			13	7
2016-N-109	Roselle - Brighton Avenue	RC&D 21st Century	\$ 16,000	\$ 4,000	\$ 21,833			13	7
2011-K-1	Walnut Street, Felton / Crisco	RC&D 21st Century	\$ 5,400	\$ 540	\$ 4,860			30	15
1999-K-2	Long Pointe Road / Whiteoak Road / Simpson Phase II	RC&D 21st Century	\$ 48,000	\$ 4,800	\$ 43,200			28	16, 17
2004-K-3	Kentwoods Mobile Home Park	RC&D 21st Century	\$ 88,575	\$ 8,858	\$ 79,719			28	17
2014-K-4	South Mill Creek Tax Ditch / Alley	RC&D 21st Century	\$ 89,702	\$ 8,970	\$ 80,732			29	14
2003-K-5	Hawkey Branch Road / Gormley	RC&D 21st Century	\$ 54,000	\$ 5,400	\$ 48,600			28	14
2004-K-6	Judith Road / Parsons Phase II	RC&D 21st Century	\$ 100,000	\$ 10,000	\$ 90,000			11	15
2010-K-7	College Road / Manvel	RC&D 21st Century	\$ 20,000	\$ 2,000	\$ 20,430	\$ 20,430		31	17
-K-8	Gravelly Run Tax Ditch / Gray	RC&D 21st Century	\$ 14,170	\$ 1,417	\$ 12,753			11	15
2016-K-9	Petersburg Tax Ditch Bank Stabilization	RC&D 21st Century	\$ 35,000	\$ 20,000	\$ 15,000			30	15
2016-K-10	Bright Haines Tax Ditch Prong 7 / Kauffman	RC&D 21st Century	\$ 6,000			\$ 5,400		30	18
2008-K-11	Irish Hill Road / Miller	RC&D 21st Century	\$ 50,000	\$ 5,000		\$ 45,000		33	16
2004-K-12	Surrey Drive / McMahan	RC&D 21st Century	\$ 24,000	\$ 2,400		\$ 21,600		29	15
2005-K-13	Wheatleys Pond Road / Ortiz	RC&D 21st Century	\$ 2,400		\$ 2,160			11	15
2002-K-14	Hidden Acres	RC&D 21st Century	\$ 40,000	\$ 4,000		\$ 36,000		29	15
2010-K-15	Drake Ct., Wild Quail / Susan Cook	RC&D 21st Century	\$ 20,000	\$ 2,000		\$ 18,000		29	15
1998-K-16	Star Hill / Headstart Road - Briar Park Phase	RC&D 21st Century	\$ 200,000	\$ 20,000		\$ 180,000		34	17, 16
2014-K-17	Viola Phase II drainage improvements	RC&D 21st Century	\$ 60,000	\$ 6,000		\$ 54,000		30, 34	15, 16
1998-K-18	Bowers Beach, Town of	RC&D 21st Century	\$ 200,000	\$ 20,000		\$ 100,000	\$ 100,000	33	16

21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch, and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2007-K-19	Tarr Ditch, City of Dover	RC&D 21st Century	\$ 4,000,000	\$ 400,000		\$ 100,000		32, 31	17
2011-K-20	Persimmon Park Place	RC&D 21st Century	\$ 200,000	\$ 20,000	\$ 24,525			28	17, 14
2011-K-21	Wild Quail Drainage Improvements Phase II	RC&D 21st Century	\$ 150,000	\$ 15,000		\$ 125,000		29	15
2012-K-22	Kent County Bay Beach Communities Drainage Studies / Improvements Phase II - Pickering Beach	RC&D 21st Century	\$ 50,318	\$ 5,032	\$ 4,907	\$ 9,813		32	16
2012-K-23	Kent County Bay Beach Communities Drainage Studies / Improvements Phase III - Kitts Hummock	RC&D 21st Century	\$ 53,044	\$ 5,304	\$ 4,907	\$ 9,813		32	16
2012-K-24	Kent County Bay Beach Communities Drainage Studies / Improvements Phase IV - Kitts Hummock	RC&D 21st Century	\$ 18,500	\$ 1,850	\$ 2,944	\$ 5,888		32	16
2012-K-25	Kent County Bay Beach Communities Drainage Studies / Improvements Phase V - Kitts Hummock	RC&D 21st Century	\$ 83,280	\$ 8,328	\$ 7,360	\$ 14,720		32	16
2012-K-26	Kent County Bay Beach Communities Drainage Studies / Improvements Phase VI - South Bowers	RC&D 21st Century	\$ 8,080	\$ 808	\$ 2,424	\$ 4,848		33	16
1999-K-27	Peach Basket Road / Rt. 12	RC&D 21st Century	\$ 30,000	\$ 3,000		\$ 27,000		30	15
2000-K-28	Silver Lake Water Management Project - DeltTech Terry Campus	RC&D 21st Century	\$ 350,000	\$ 35,000		\$ 315,000		31	17
1998-K-29	Lockwood Chapel Road / Krupka Phase 2 (Main)	RC&D 21st Century	\$ 200,000	\$ 20,000		\$ 115,000		11	15
2003-K-30	Pearsons Corner Road / Detweiler	RC&D 21st Century	\$ 75,000	\$ 7,500		\$ 67,500		11, 29	15
2003-K-31	Willow Grove Road / Blackwell	RC&D 21st Century	\$ 36,000	\$ 3,600		\$ 32,400		29	15
2004-K-32	Sandbox Road / Jackson	RC&D 21st Century	\$ 60,000	\$ 6,000		\$ 54,000		33	18
2004-K-33	Rt. 44 / Altemus	RC&D 21st Century	\$ 15,000	\$ 1,500		\$ 13,500		11	15
2004-K-34	Barbara Blvd., Breezeewood / Cerbone	RC&D 21st Century	\$ 37,800	\$ 3,780		\$ 34,020		34	16
2004-K-35	Seven Hickories Road / Peachey	RC&D 21st Century	\$ 24,000	\$ 2,400		\$ 21,600		29	15
2010-K-36	Houston, Town of, drainage improvements Phase I	RC&D 21st Century	\$ 90,000	\$ 9,000			\$ 81,000	33	18
1999-K-37	Bowers Beach Road / Mallek Phase I	RC&D 21st Century	\$ 60,000	\$ 6,000		\$ 24,000	\$ 30,000	33	16

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**21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement**

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2002-K-38	Pearsons Corner Road / Sbriglia Phase I	RC&D 21st Century	\$ 10,000	\$ 1,000	\$ 9,000			11, 29	15
2004-K-39	Raughley Hill Road / Faircloth	RC&D 21st Century	\$ 25,000	\$ 2,500			\$ 22,500	30	18
2008-K-40	Bryn Zion Road / Timber Mills / Kreiger	RC&D 21st Century	\$ 200,000	\$ 20,000			\$ 180,000	11	15
1995-K-41	Bowers Beach Road / Maille Phase II	RC&D 21st Century	\$ 60,000	\$ 6,000			\$ 54,000	33	16
2006-K-42	Greenbriar Road / Penneyacker	RC&D 21st Century	\$ 15,000	\$ 1,500			\$ 13,500	11	15
2013-K-43	Hopewell Drive / Gadaingan	RC&D 21st Century	\$ 10,000	\$ 1,000			\$ 9,000	11	15
2015-K-44	1778 Peachtree Run / Walsh	RC&D 21st Century	\$ 40,000	\$ 4,000			\$ 36,000	34	16
2007-K-45	W. Denneys Road, near Maidstone Branch Road / Bloss / Foltz	RC&D 21st Century	\$ 80,000	\$ 8,000			\$ 72,000	29	15
2013-K-46	Abbotts Pond Road / Gallagher	RC&D 21st Century	\$ 20,000	\$ 2,000			\$ 18,000	30	18
2010-K-47	Hazelwood Subdivision drainage Improvmentis	RC&D 21st Century	\$ 40,000	\$ 4,000			\$ 36,000	28	14
2012-K-48	Voshells Cove, Richard Blvd. / Gibson	RC&D 21st Century	\$ 30,000	\$ 3,000			\$ 27,000	29	15
2011-K-49	Pearsons Corner Road / Durham	RC&D 21st Century	\$ 20,000	\$ 2,000			\$ 18,000	29, 11	15
2011-K-50	Plymouth Road / Langley drainage Improvements	RC&D 21st Century	\$ 8,000	\$ 800			\$ 7,200	30	15
2009-S-1	VOP Projects (CB, B, DB)	RC&D 21st Century			\$ 31,920	\$ 36,000		County Wide - Sussex	County Wide - Sussex
2015-S-2	Nanticoke Watershed Parrot Feather Eradication	RC&D 21st Century	\$ 60,000	\$ 40,000	\$ 9,244	\$ 3,900		30, 35	18, 19
2005-S-3	Hudson Rd (Rd 258) / Chris & Leah Hoenen (Hudson Road Tax Ditch) Phase 1	RC&D 21st Century	\$ 201,034	\$ 18,132	\$ 129,052			20	6
2006-S-4	Bucks Branch Tax Ditch Maintenance Dipout Phase II (Prong 1)	RC&D 21st Century	\$ 62,303	\$ -	\$ 20,000			39	19
2003-S-5	Meadow Branch TD (George Beauchamp)	RC&D 21st Century	\$ 30,000	\$ 3,000	\$ 25,839			40	21
2003-S-6	Road 352 Connie O'Neal	RC&D 21st Century	\$ 27,000	\$ 2,700	\$ 29,999			38	20
2008-S-7	Nanticoke River Tax Ditch Maintenance Dipout Phase II	RC&D 21st Century	\$ 880,417	\$ 475,000	\$ 405,852			35, 30	18, 19

21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch, and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2010-S-8	Airport rd / Zoch / Drainage Improvements	RC&D 21st Century	\$ 23,509	\$ 2,400		\$ 21,109		39	21
2011-S-9	Capitwa Sands Stormwater Pond Improvements	RC&D 21st Century	\$ 70,000	\$ 30,000	\$ 40,000			14	20
2009-S-10	Zoar Rd / Baxter Drainage Improvements	RC&D 21st Century	\$ 50,000	\$ 5,000	\$ 50,000			41	19
1997-S-11	Johnson Development Phase II	RC&D 21st Century	\$ 500,000	\$ 50,000		\$ 450,000		39	21
2014-S-12	Guinea Creek TD	RC&D 21st Century	\$ 600,000				\$ 100,000	37	20
2014-S-13	Derrickson Canal T.D. Prong 3 Drainage Improvements Phase I Church	RC&D 21st Century	\$ 100,000	\$ 10,000	\$ 45,000			38	20
2006-S-14	Agricultural Tax Ditch / Baulf Bank Stabilization	RC&D 21st Century	\$ 70,000	\$ 7,000		\$ 63,000		38	20
2011-S-15	Cart Branch Tax Ditch Culvert Replacements	RC&D 21st Century	\$ 50,000	\$ 5,000		\$ 45,000		35	18
2016-S-16	Harts Landing - Love Creek Pines Lane - Pizzacilli Drainage Improvements	RC&D 21st Century	\$ 70,000			\$ 63,000		14	6
2013-S-17	Banks Bennett Tax Ditch P3 Phase 2	RC&D 21st Century	\$ 16,650	\$ 1,665	\$ 2,160			38	20
2007-S-18	Deep Hole Tax Ditch Maintenance Dipout Phase 1 Prong 4	RC&D 21st Century	\$ 25,000			\$ 22,500		38	20
2012-S-19	Silver Lake / Rehoboth	RC&D 21st Century	\$ 50,000	\$ 8,963		\$ 25,000		14	6
2012-S-20	Silver Lake / Rehoboth, Phase 2	RC&D 21st Century	\$ 225,000		\$ 51,806	\$ 150,000		14	6
2004-S-21	Holly Carmack Clendaniel Ave Selbyville	RC&D 21st Century	\$ 105,000	\$ 10,500	\$ 10,000	\$ 94,500		41	20
2008-S-22	Delaware Avenue / Ellis Stream Restoration	RC&D 21st Century	\$ 85,000	\$ 8,500		\$ 72,500		40	21
2012-S-23	Broadkill Beach Drainage Improvements Phase 1	RC&D 21st Century	\$ 37,000		\$ 3,460	\$ 6,921	\$ 23,000	36	18
2012-S-24	Broadkill Beach Drainage Improvements Phase 2	RC&D 21st Century	\$ 27,000		\$ 3,460	\$ 6,921	\$ 13,000	36	18
2012-S-25	Broadkill Beach Drainage Improvements Phase 3	RC&D 21st Century	\$ 40,000		\$ 4,449	\$ 8,897	\$ 22,000	36	18
2012-S-26	Primehook / Fowlers Beach Drainage Improvements Phase 1	RC&D 21st Century	\$ 94,000		\$ 8,650	\$ 17,301	\$ 59,000	36	18
2012-S-27	Slaughter Beach Drainage Improvements Phase 1	RC&D 21st Century	\$ 147,000		\$ 11,122	\$ 22,244	\$ 102,000	36	18
2004-S-28	Lewes Beach Drainage Improvements Phase 1	RC&D 21st Century	\$ 66,000		\$ 1,997	\$ 3,994	\$ 40,000	20	6

21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2014-S-29	Oak Orchard Drainage Improvements - Phase 1	RC&D 21st Century	\$ 218,000		\$ 10,436	\$ 20,872		37	20
2014-S-30	Oak Orchard Drainage Improvements - Phase 2	RC&D 21st Century	\$ 945,000		\$ 25,047	\$ 50,094		37	20
2014-S-31	Oak Orchard Drainage Improvements - Phase 3	RC&D 21st Century	\$ 951,000		\$ 25,047	\$ 50,094		37	20
2014-S-32	Oak Orchard Drainage Improvements - Phase 4	RC&D 21st Century	\$ 76,000		\$ 4,174	\$ 8,349		37	20
2014-S-33	Oak Orchard Drainage Improvements - Phase 5	RC&D 21st Century	\$ 918,000		\$ 15,654	\$ 31,309		37	20
2014-S-34	Little Bay T.D. / Oceanside Pkwy Culvert Replacement	RC&D 21st Century	\$ 250,000	\$ 25,000	\$ 40,208	\$ 175,000		38	20
2014-S-35	Little Bay T.D. / Rose Marie Rosse Bank Stabilization <b>SEE PROJECT 50</b>	RC&D 21st Century	\$ 50,000	\$ 5,000		\$ 35,000		38	20
2014-S-36	Pine Valley MHP Drainage Improvements	RC&D 21st Century	\$ 325,000	\$ 32,500	\$ 9,962			14	6
2015-S-37	Unity Branch/Holly Lake Campground Watershed Study. (SCD Agreement)	RC&D 21st Century	\$ 105,600	\$ 52,800	\$ 7,300			20, 37	6, 19
2015-S-38	Unity Branch/Holly Lake Campground Watershed Study (RK&K Agreement)	RC&D 21st Century	\$ 105,600	\$ 52,800	\$ 23,826			20, 37	6, 19
2009-S-39	Norman Eskridge Highway / Lows	RC&D 21st Century	\$ 70,000	\$ 7,000		\$ 48,000		39	21
2015-S-40	Long Neck Drainage Study	RC&D 21st Century	\$ 1,000,000	\$ 100,000		\$ 45,000		37	6, 20
2006-S-41	Highland Acres Tax Ditch Maintenance Dipout	RC&D 21st Century	\$ 160,000	\$ 110,000		\$ 50,000		20	6
1996-S-42	Selbyville Flood Drainage Project Phase II Railroad Avenue	RC&D 21st Century	\$ 900,000	\$ 90,000	\$ 39,600			41	20
2011-S-43	Avalon Woods / Frank Jewell Drainage Improvements	RC&D 21st Century	\$ 500,000	\$ 25,000	\$ 22,226	\$ 386,406		37	19
2007-S-44	Little Hill Rd / Leonard Drainage Improvements	RC&D 21st Century	\$ 100,000	\$ 10,000		\$ 90,000		40	21
2014-S-45	Derrickson Canal T.D. Prong 3 Drainage Improvements <b>Phase II Garage &amp; Dipout</b>	RC&D 21st Century	\$ 83,300	\$ 8,300		\$ 75,000		38	20
2005-S-46	Road 357 (Piney Point Dev.) / John Bauer	RC&D 21st Century	\$ 35,000	\$ 3,500		\$ 31,500		38	20
2004-S-47	Rd. 283 A / Kosinski Public Ditch	RC&D 21st Century	\$ 75,000	\$ 7,500		\$ 67,500		14	6
2012-S-48	Revel Road / DelDOT Drainage Improvements	RC&D 21st Century	\$ 100,000	\$ 10,000		\$ 90,000		41	20, 21
2006-S-49	Progress School Rd / Evans Public Ditch	RC&D 21st Century	\$ 75,000			\$ 67,500		35	19

## 21st Century Funded Projects, and Projects Needs: Agricultural, Tax Ditch; and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
2013-S-50	Town of Bethel / Snake Road Drainage Improvements	RC&D 21st Century	\$ 160,000			\$ 44,000	\$ 100,000	40	20
2004-S-51	Baltimore Avenue / Cheels Public Ditch	RC&D 21st Century	\$ 30,000	\$ 3,000		\$ 27,000		38	20
2015-S-52	Pepper Creek Tax Ditch Bank Stabilization	RC&D 21st Century						41	20
2011-S-53	Diamond Acres / Jones Drainage Improvements	RC&D 21st Century						41	20
2015-S-54	Cart Branch Tax Ditch Prong C Bank Stabilization	RC&D 21st Century	\$ 50,000	\$ 5,000		\$ 45,000		35	18
2012-S-55	Bunting Tax Ditch Prong 2 Bank Stabilization	RC&D 21st Century	\$ 50,000	\$ 5,000		\$ 45,000		38	20
2006-S-56	Raccoon Branch Tax Ditch Bank Stabilization	RC&D 21st Century	\$ 30,000	\$ 3,000		\$ 27,000		40	21
2010-S-57	Herring Branch Tax Ditch / Parson Bank Stabilization	RC&D 21st Century	\$ 30,000	\$ 3,000		\$ 27,000		41	20
2004-S-58	Joe Dailey New Rd Lewes	RC&D 21st Century	\$ 300,000	\$ 30,000		\$ 270,000		20	6
2008-S-59	Walker Mill Rd / Country Glenn Drainage Improvement	RC&D 21st Century	\$ 150,000	\$ 15,000		\$ 135,000		35	19
2007-S-60	Rd 550 / Harry Simionick Drainage Improvements	RC&D 21st Century	\$ 140,000	\$ 14,000		\$ 126,000		39	21
2005-S-61	Road 442 / Jay Challman	RC&D 21st Century						40	21
2009-S-62	Trap Pond Rd / White Drainage Improvements	RC&D 21st Century						40	21
2004-S-63	Earnestine Hill Rd 569 nr Omar	RC&D 21st Century	\$ 70,000	\$ 7,000		\$ 63,000		38	20
2008-S-64	Bear Hole Tax Ditch / Johnson	RC&D 21st Century	\$ 21,000				\$ 18,900	38	20
2004-S-65	Rt. 5 & Rd. 290 / Cook Public Ditch	RC&D 21st Century	\$ 275,000				\$ 247,500	20	6, 19
2012-S-66	RD 207/213 Drainage improvements	RC&D 21st Century	\$ 30,000				\$ 27,000	35, 36	18
2005-S-67	Road 436(Curley Dr) / Butch Raghunadan / Saunders Br.	RC&D 21st Century	\$ 140,000				\$ 126,000	40	21
2013-S-68	Carsvlian Acres / Jordan Drainage Improvements	RC&D 21st Century	\$ 42,000				\$ 37,800	20	6
2011-S-69	Mirey Branch / Wan Yu Bank Stabilization	RC&D 21st Century	\$ 32,000				\$ 28,800	40	21
2014-S-70	Reservation Trail / Grzybowski Drainage Improvements	RC&D 21st Century	\$ 26,000				\$ 23,400	38	20

21st Century Funded Projects, and Projects Needs: Agricultural; Tax Ditch, and Large Flood Abatement

Project ID	Project	Project Category	State Costs	Matching Funds	FY2016 21CF Projected	FY17 21CF Planned	FY18 21CF Planned	Representative District	Senatorial District
Stream Restoration	Upper Christina - Phase III	Conservation Project	\$ 650,000	\$ 200,000			\$ 23,400	23	8
<b>Totals</b>			\$ 30,201,807	\$ 4,149,350	\$ 4,067,118	\$ 7,565,443	\$ 1,763,500		

The following questions were asked during the presentation:

Jeff Bross, Water Infrastructure Advisory Council, asked with the 700 projects referenced in Mr. Zimmerman’s presentation, what the dollars associated with those projects were.

Mr. Zimmerman answered that it is less than \$80 million.

Minutes prepared by Caitlyn Gordon, Legislative Aide

Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer

Mr. Deputy moved the discussion to the next document in the presentation from DNREC, which was presented by Virgil Holmes.

*The document that Task Force members received is inserted below:*

Most of the small bay front communities Kitts Hummock, South Bowers Beach, Woodland Beach, Pickering Beach, Port Penn/St. Augustine Beach need to be considered primarily due to their location in the coastal/bay front environment. These communities are currently underserved.

New Castle County

Port Penn/St. Augustine Beach: Rep District 9R (Kevin Hensley) Sen District 14D(Bruce Ennis)

Kent County

Kitts Hummock:	Rep District 32D(Andria Bennett)	Sen District 16R(Colin Bonini)
South Bowers Beach:	Rep District 33R(Harold Peterman)	Sen District 16R(Colin Bonini)
Woodland Beach:	Rep District 28D(William Carson)	Sen District 14D(Bruce Ennis)
Pickering Beach :	Rep District 28D(William Carson)	Sen District 16R(Colin Bonini)

Sussex County

There are a few unincorporated bay front areas that are in need of some sort of wastewater disposal upgrades. These are all subject to SLR and inundation. They would include:

Broadkill Beach	Milton:	Rep District 36 R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Dogwood Acres	Dagsboro:	Rep District 41R(Richard Collins)	Sen District 20R(Gerald Hocker)
Fowlers Beach	Milton/Milf.	Rep District 36R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Joy Beach	Angola	Rep District 14D((Peter Swartzkopf)	Sen District 6R(Ernesto Lopez)
Love Creek MHP	Lewes:	Rep District 14D(Peter Swartzkopf)	Sen District 6R(Ernesto Lopez)
Mulberry Knoll	Lewes:	Rep District 14D(Peter Swartzkopf)	Sen District 6R(Ernesto Lopez)
Prime Hook Beach	Milton:	Rep District 36R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Seawinds	Dagsboro:	Rep District 38R(Ronald Gray)	Sen District 20R(Gerald Hocker)
Slaughter Beach	Milford:	Rep District 36R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Town of Bethel	Bethel:	Rep District 40R(Timothy Dukes)	Sen District 21R(Bryant Richardson)
West Beach	Dagsboro:	Rep District 38R(Ronald Gray)	Sen District 20R(Gerald Hocker)
Winding Creek	Millsboro:	Rep District 37R(Ruth Briggs King)	Sen District 19R(Brian Petyjohn)

There are also several communities/areas/developments that would not be subject to SLR or inundation that are in need of wastewater upgrades. They would include:

Blackwater Village	Dagsboro	Rep District 38R(Ronald Gray)	Sen District 20R(Gerald Hocker)
Dogwood Estates	Dagsboro	Rep District 38R(Ronald Gray)	Sen District 20R(Gerald Hocker)
The Point Farm	Dagsboro	Rep District 41R(Richard Collins)	Sen District 20R(Gerald Hocker)
Waverly	Dagsboro	Rep District 38R(Ronald Gray)	Sen District 20R(Gerald Hocker)

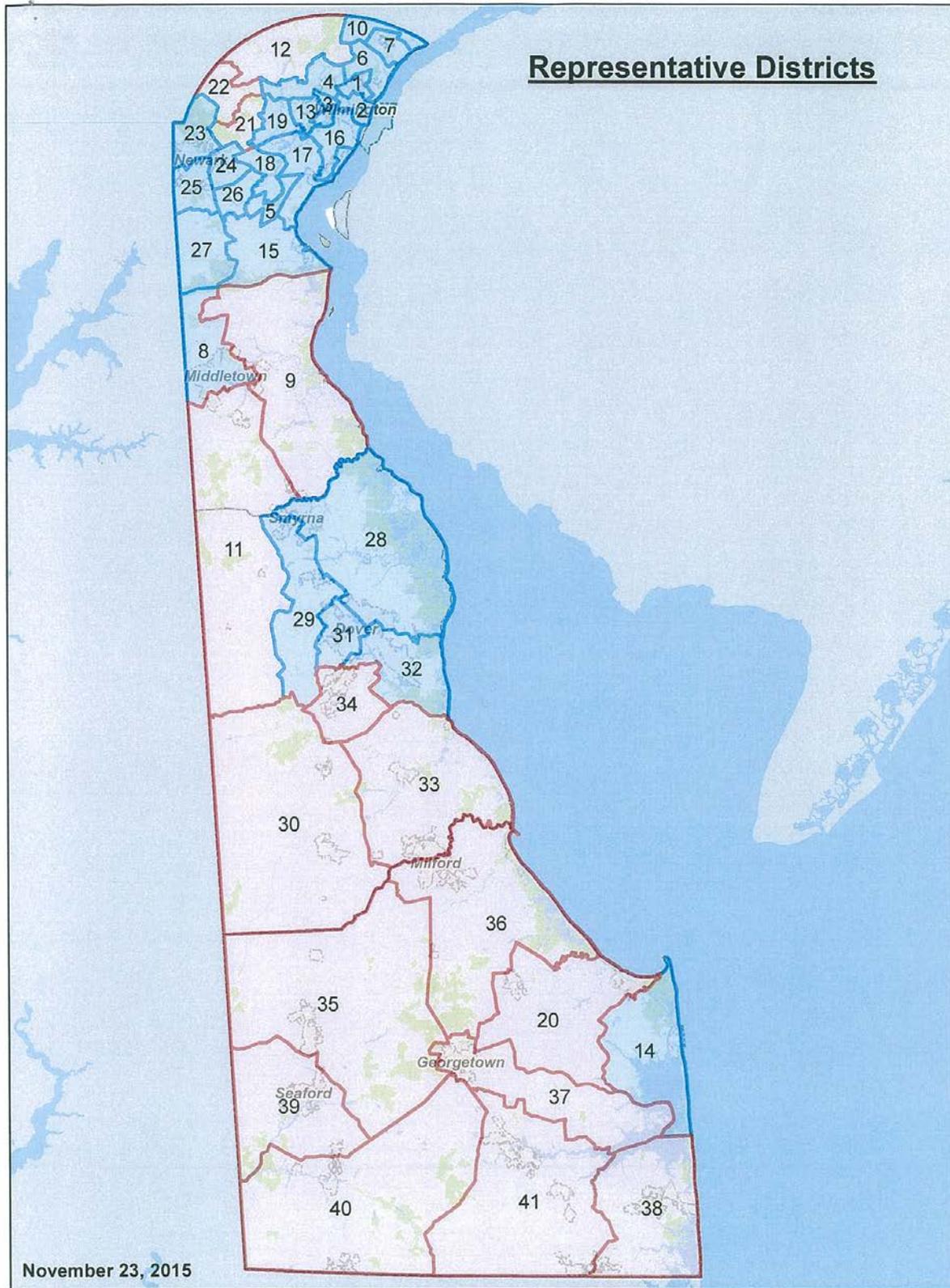
The following are communities/areas/developments that are in need of wastewater on-site and/or central upgrades and also have serious financial issues. They are not subject to SLR unless noted.

Cedar Creek	Milford:	Rep District 36R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Coolspring	Lewes:	Rep District 20R(Stephen Smyk)	Sen District 19R(Brian Petyjohn)
Concord	Seaford:	Rep District 35R(David Wilson)	Sen District 21R(Bryant Richardson)
Coverdale Crossroads	Bridgeville:	Rep District 35R(David Wilson)	Sen District 19R(Brian Petyjohn)
Diamond Acres	Dagsboro:	Rep District 41R(Richard Collins)	Sen District 20R(Gerald Hocker)
Greentop	Lincoln:	Rep District 36R(Harvey Kenton)	Sen District 18R(F Gary Simpson)
Lucas Development	Milton:	Rep District 20R(Stephen Smyk)	Sen District 6R(Ernesto Lopez)
Mount Joy	Millsboro:	Rep District 37R(Briggs King)/41R Collins	Sen District 20R(Gerald Hocker)
Possum Point	Millsboro:	Rep District 41R(Richard Collins)	Sen District 20R(Gerald Hocker)

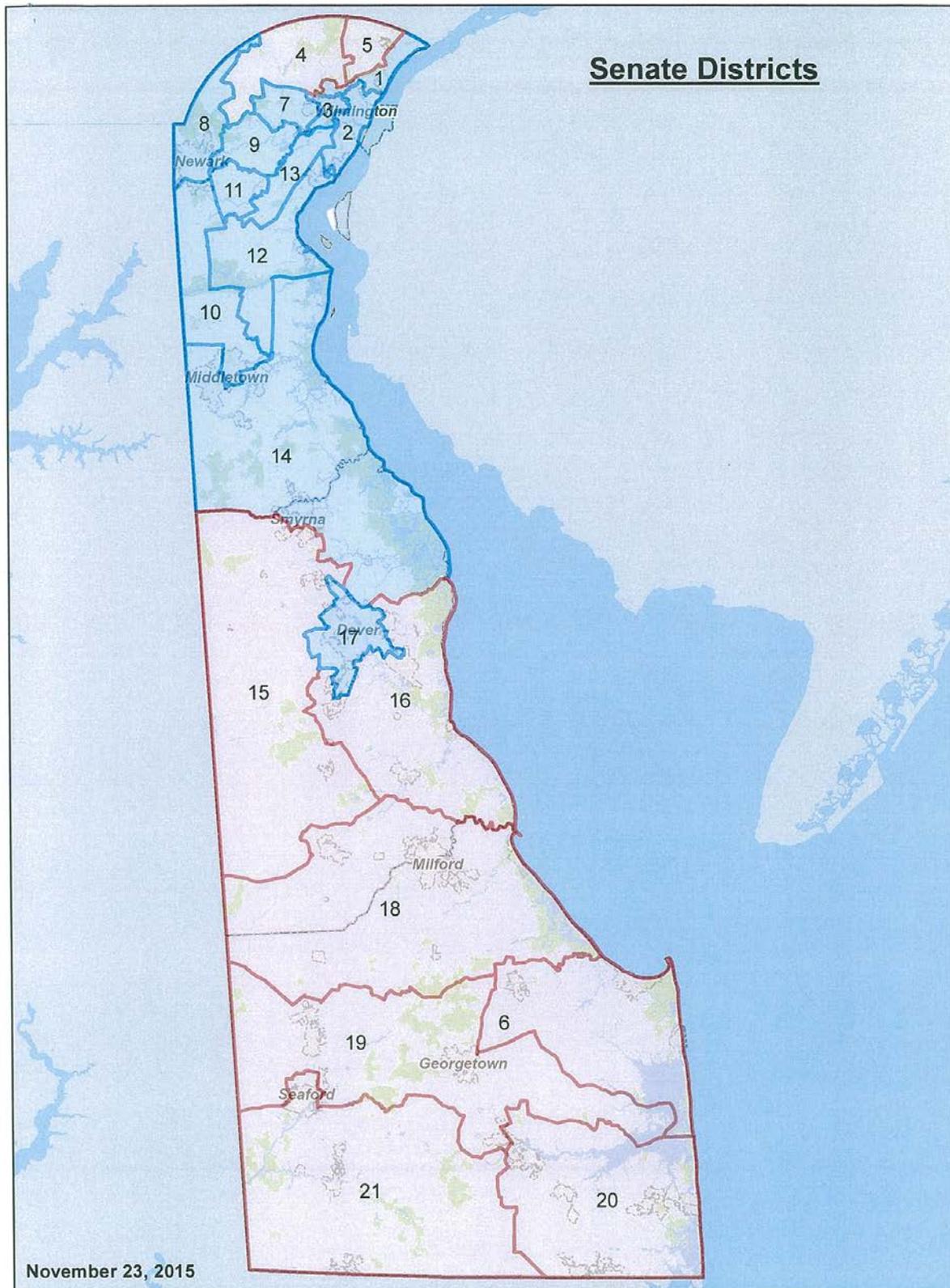
Thom May, Department of Health and Social Services, presented.

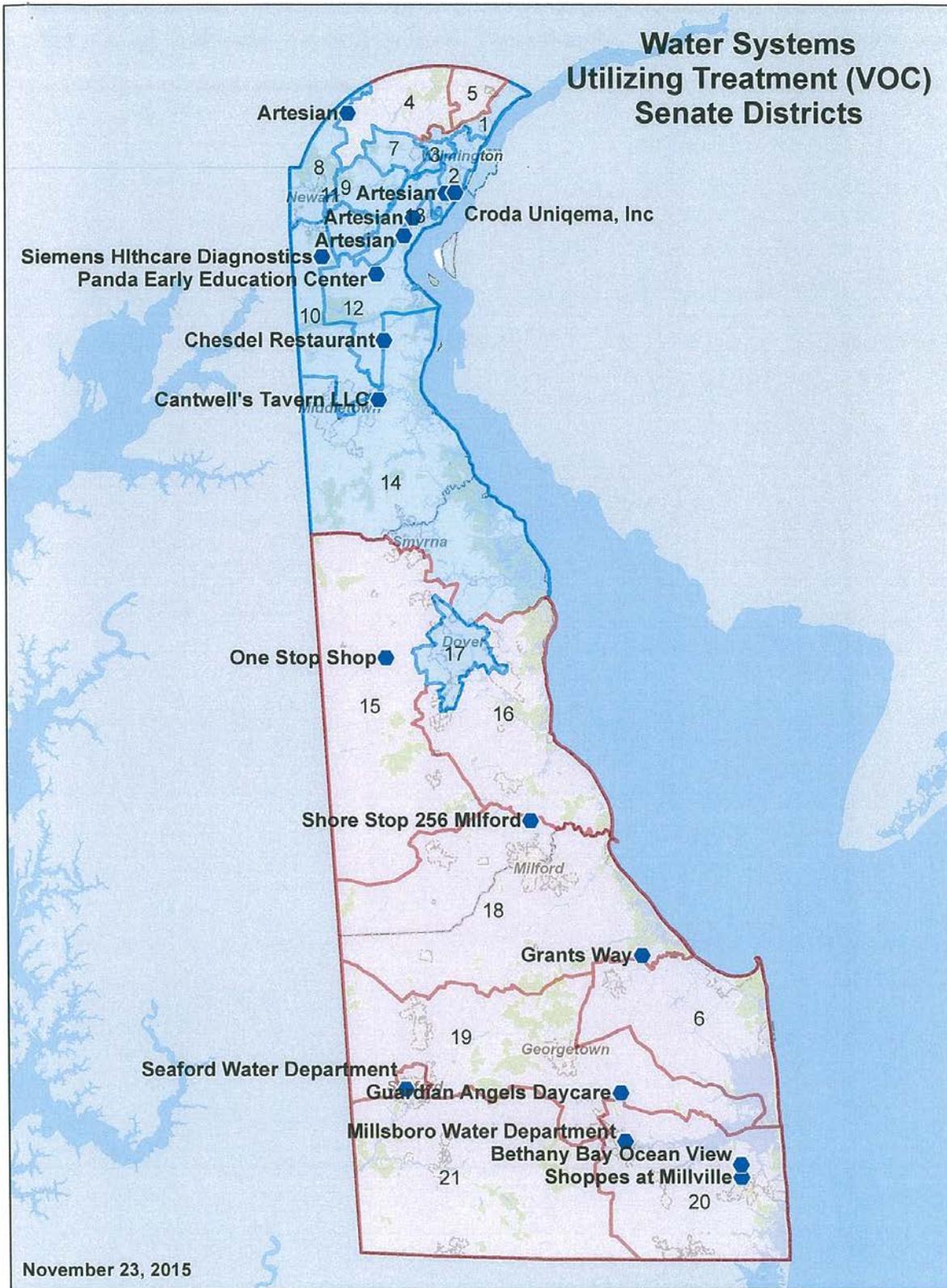
*The document that Task Force members received is inserted below:*

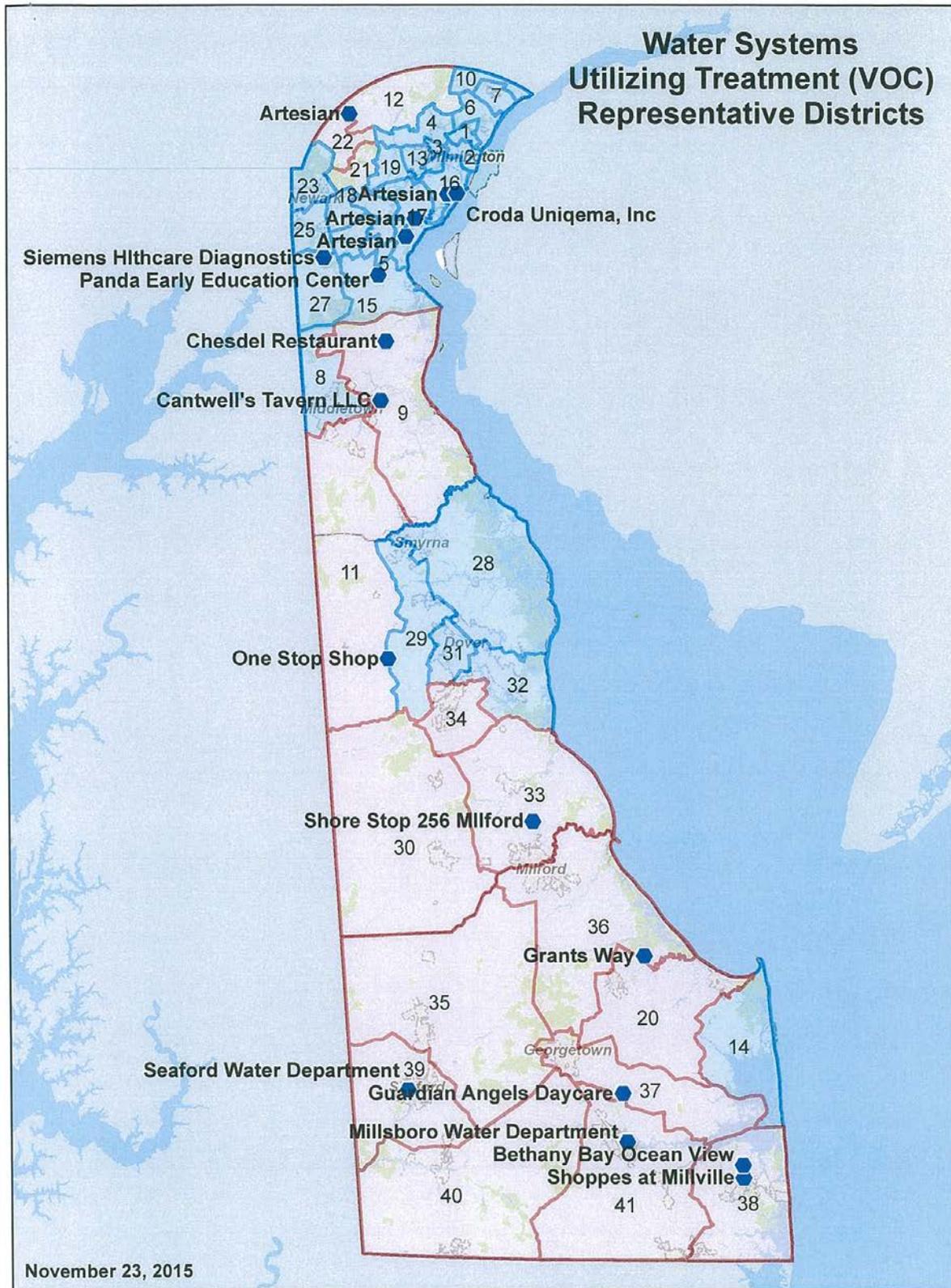
Minutes prepared by Caitlyn Gordon, Legislative Aide  
Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer



Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer

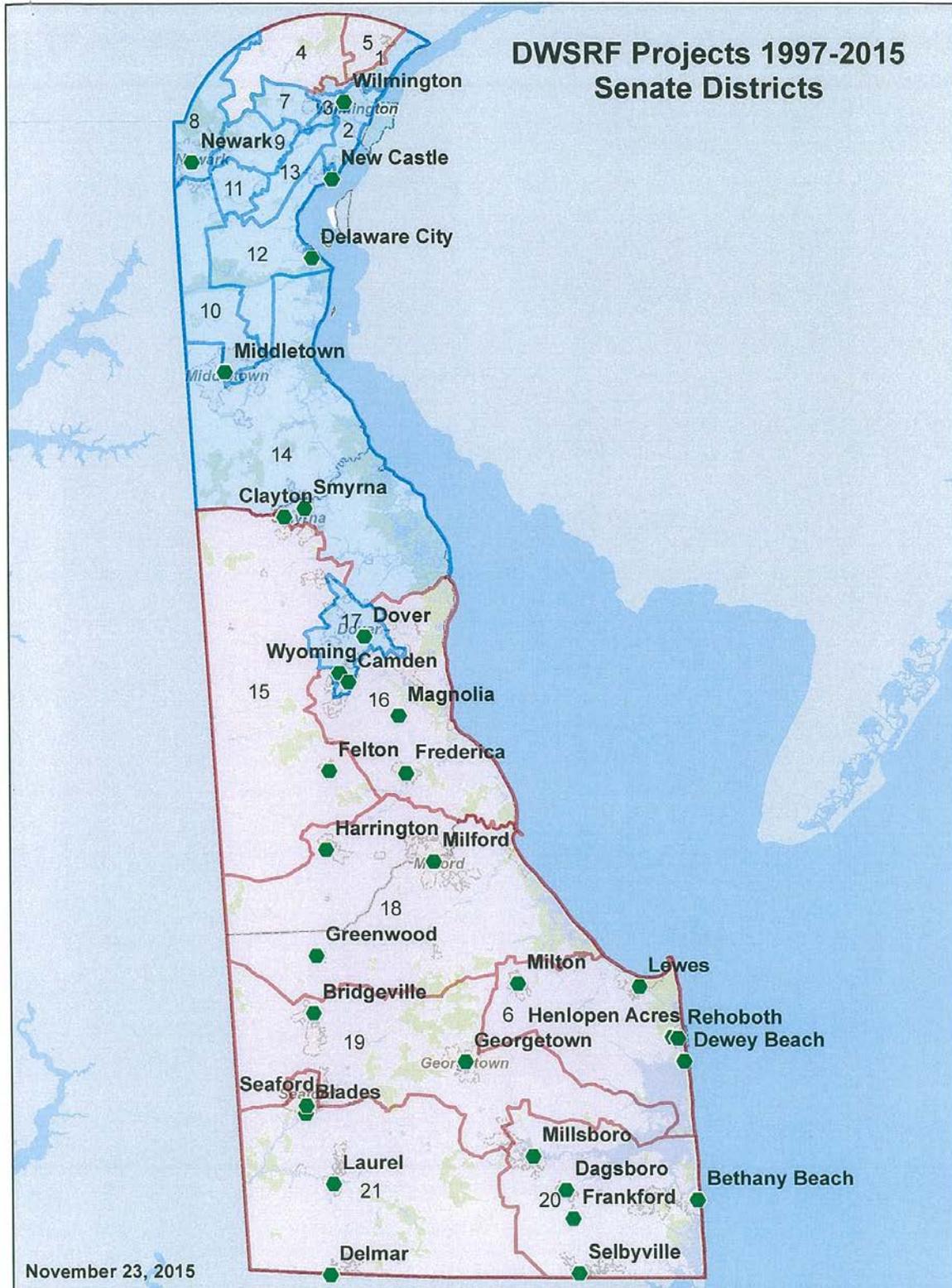




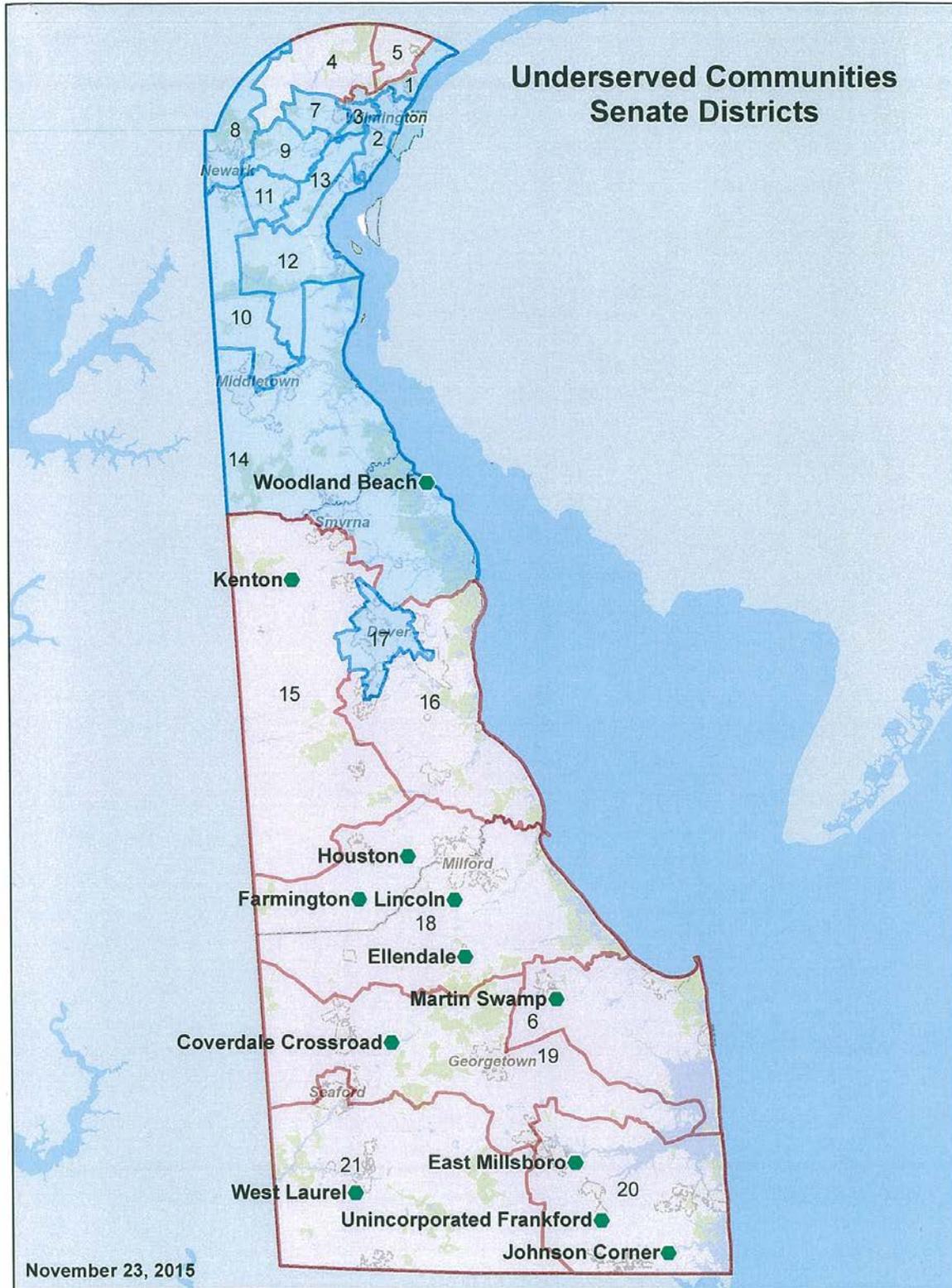




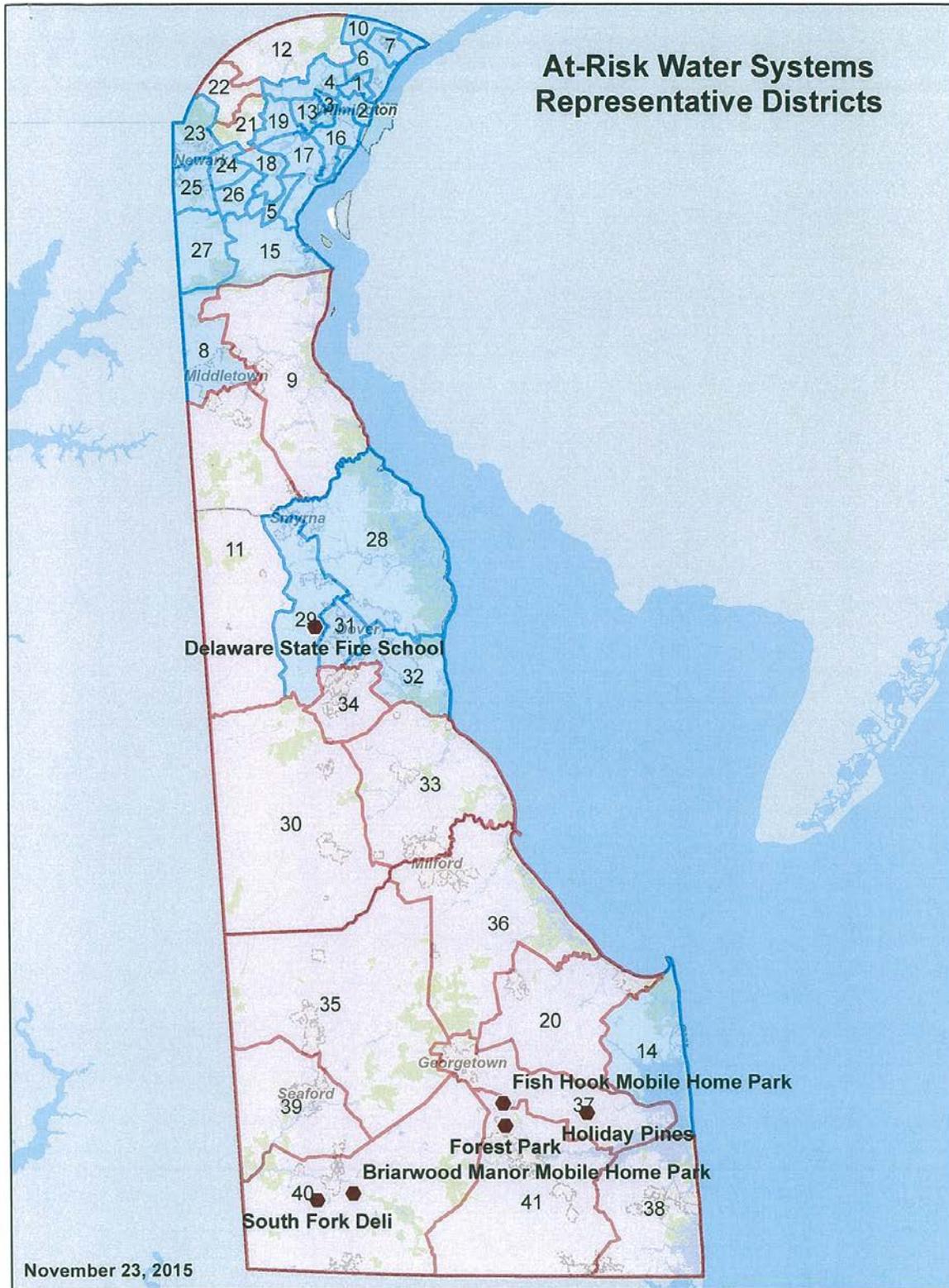
Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer



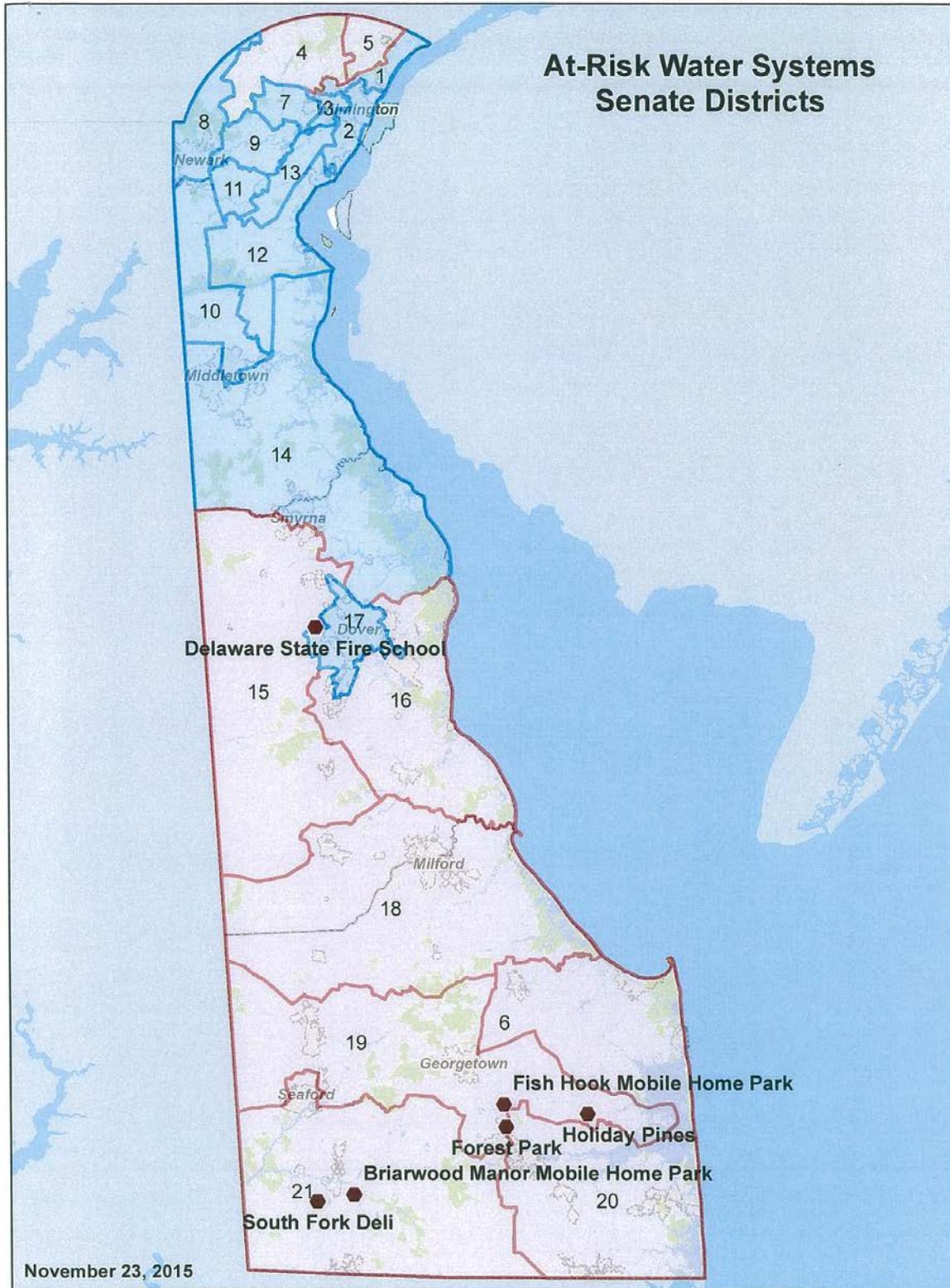
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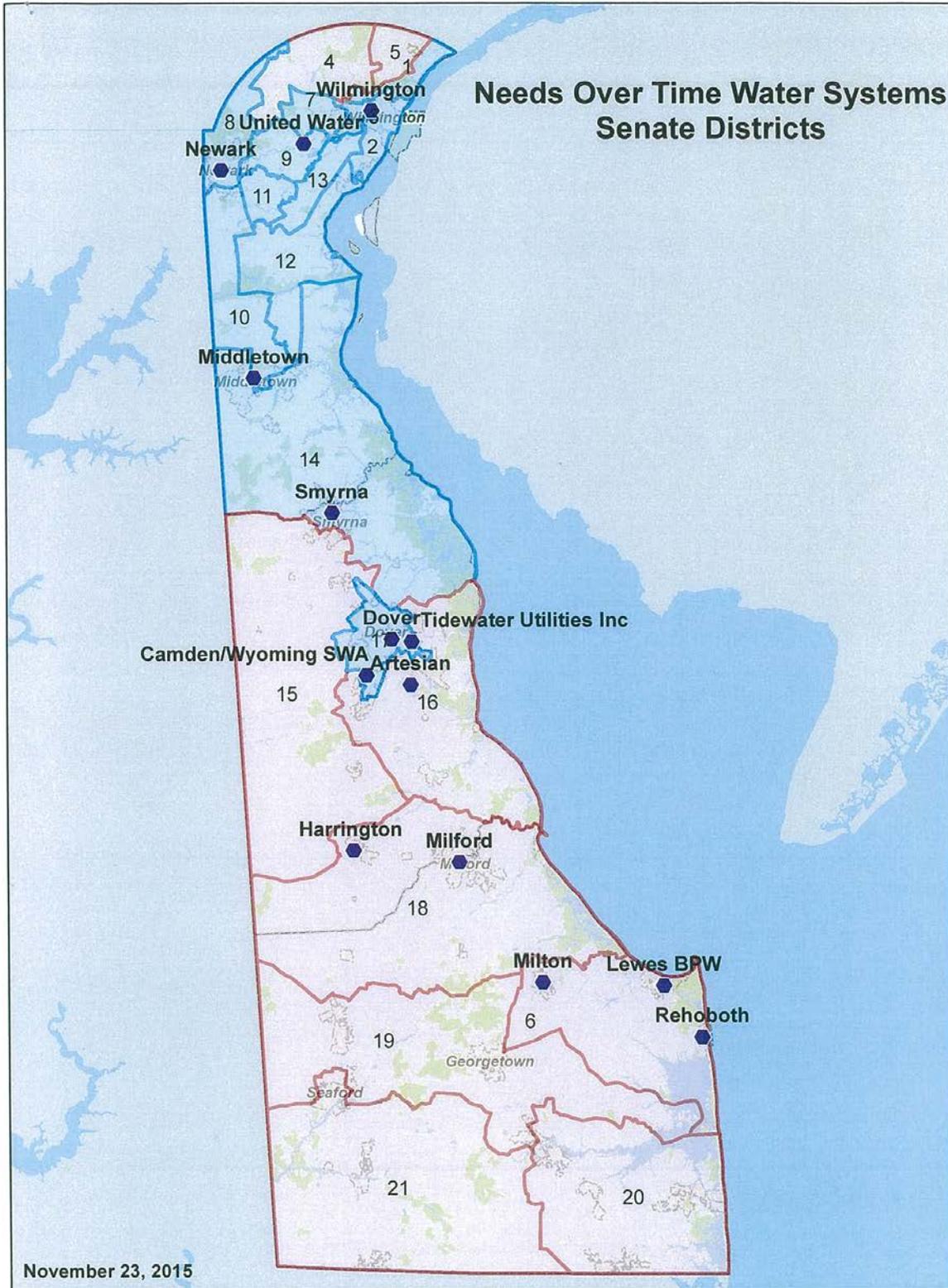
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*The following questions were asked during the presentation:*

Ms. Goggin asked to clarify what Mr. May meant by “underserved.”

Mr. Holmes replied that it means either an existing or an expected need based on recurring issues with compliance, or just getting the community together to get the system to work better. It does not necessarily mean that funding is not available.

Mr. May also responded that it can also mean that the community does not have the infrastructure to collectively, as a community, move forward with projects.

Mr. Morrill referenced the VOC (Volatile Organic Compound) systems and asked if ongoing treatment is the right thing to do.

Mr. May replied that the VOC’s are gasoline related. In some areas, DNREC has ongoing mediation projects that encompass great treatment, useful technology, and it is cost-beneficial to the water systems to clean up the water and put a good product out.

Senator Bryan Townsend, Co-Chair, asked for clarification if Mr. May said it was \$339 million over the next 6 years.

Mr. May answered yes. He continued by clarifying that these are projects that qualifying entities would engage in if they had sustainable financing, and affordable financing, over the next 5 years.

Senator Townsend asked how much of the \$339 million would be available if nothing happens.

Mr. May answered none.

Senator Townsend referenced the packet that Mr. May provided Task Force members with. Then, he asked if they didn’t receive the \$339 million that they need for all of the projects listed in Mr. May’s packet, what they would do.

Mr. May responded that they would have to rank the projects, and those that have highest importance for public health would be funded.

Senator Townsend asked what this looks like for the individuals who are on the losing end.

Mr. May replied that one of the issues that faces the DWSRF side is the affordability of the funding that is already made available. Given the needs assessment, if the State supplied them money or a system that was affordable and sustainable, they would move forward with the projects.

Senator Townsend commented that for the State to do that is dependent on some sort of action, and not just a continuation of the status quo. If the status quo were to continue, he asked what

would happen on a day to day basis and what calls should legislators expect to get, over time, if they don't address the issues.

Mr. May responded that, from a public health perspective, they are not projects that will become a chronic issue to the community if they are not addressed.

Ms. Goggin asked if there are residents who live in the dots, on Mr. May's presentation, who do not have access to clean water.

Mr. May answered in the underserved communities, not having access to clean water is possible.

Representative Ronald Gray asked about buy-in from the communities, he continued to reference Ellendale, and noted that they should try to get communities to buy-in to help pay for the projects.

Mr. May also referenced the case of Ellendale and noted that the money offered to the town was completely free money, and the community still voted it down.

Hanz Medlarz, on behalf of Gina Jennings and Sussex County, commented that it's a matter of governance. They have tried to create a water district and in order to create a water district they need a petition from the residents.

Mr. Spacht noted that Artesian was supplying the water to Ellendale, and it is not the capital costs in this area that is the problem, it is an educational issue. He continued by saying that the people in that area do not believe that they are paying for their water, and they do not believe there is anything wrong with their wells. That is the case of a lot of these types of areas.

David Gregor, Department of Finance, presented to Task Force Members.

*The documents that Task Force members received are inserted below:*

Letter from Deputy Secretary, David Gregor, with the Department of Finance:

All,

With the apparent preferred funding combination now existing of a PIT surcharge and the Business License surcharge, I ran some scenarios with dual caps and higher surcharge rates.

The attached document includes several combinations. I selected two, which, if combined with a \$45 license surcharge, produce about \$20 million. I also produced some basic statistics for resident taxpayers for these scenarios.

Please review and let me know what you think.

Minutes prepared by Caitlyn Gordon, Legislative Aide

Minutes reviewed by Michelle Zdeb, Legislative Assistant & Task Force Staffer

*The following questions were asked during the presentation:*

Mr. Morrill referenced the *10% Surcharge & Cap at \$40/\$80* sheet that Mr. Gregor presented, and suggested that this was the scenario that he favored alongside the \$45 business license fee proposal.

Mr. Killmer seconded Mr. Morrill's comments.

Mr. Riemann asked if there was a pass through entity, if those entities and individuals who own them would be paying the fee twice.

Mr. Gregor answered yes, because in the eyes of the law, an entity and an individual are two different things.

Mr. Morrill clarified that they need legislative language on describing the \$40/\$80 plan with the \$45 fee. He continued by saying that now with the 10% surcharge he does not know how to write that. Secondly, they need language on how the Department of Finance gets reimbursed for collection expenses.

Next, Mr. Morrill referenced the draft legislation and asked members to refrain from sending him edits until he has put all of the pending changes into the legislation.

Senator Townsend transitioned the Task Force meeting to group discussion.

### **Group Discussion**

Senator Richardson clarified the numbers, by asking if the agreed upon plan was \$20 million a year to put into a trust fund. He continued saying that if the budget is \$4 billion a year, that represents one-half of one percent of the budget. The Rainy Day Fund is 2 percent, which is \$80 million. He commented that infrastructure is critical to making improvements in Delaware. Senator Richardson noted that he strongly supports putting this money into a lockbox to make sure it is available each time it is needed.

Senator Townsend highlighted the benefits that the efforts of the Task Force and the legislation will bring to Delaware. He continued by saying that the Task Force doesn't focus on the benefits enough.

Senator Richardson noted that he is willing to work with anyone to get funds set aside for infrastructure.

Jen Adkins, Partnership for the Delaware Estuary, commented that the problem with trying to get this money in past years is not having bonding capabilities. She continued by saying that having an estimate of the leveraging capacity of the money will be important as a talking point moving forward. She continued by saying that her organization is willing to put messages out to people they work with about the importance of clean water.

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Senator Townsend asked for small groups to start meeting with legislators prior to the Report being finalized to improve the outcome from the Report come June.

**Public Comment**

Representative Mulrooney asked if there were any more comments by members of the Task Force and members of the public. As there were none, the meeting was brought to a close at 12:14 PM.