# 2020 Draft Report

# Conservation District Operations (DNREC Division of Watershed Stewardship)

150th General Assembly, 2nd session



Respectfully submitted to the Joint Legislative Oversight and Sunset Committee March 2020

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# INTRODUCTION

#### **About JLOSC and the Review Process**

The Joint Legislative Oversight and Sunset Committee ("JLOSC" or "Committee") is a bipartisan body comprised of five members of the Senate appointed by the President Pro Tempore and five members of the House of Representatives appointed by the Speaker of the House. JLOSC completes periodic reviews of agencies, commissions, and boards. The review's purpose is to first determine the public need for the entity and if need exists, to determine whether the entity is effectively performing to meet the need. JLOSC reviews aim to provide strength and support to entities that are providing a State recognized need. JLOSC performs its duties with support provided by the Division of Research's dedicated and nonpartisan staff in the form of two JLOSC analysts, a legislative attorney, a legislative fellow, and an administrative assistant.

#### A note about this Draft Report

The information provided in this report is taken from the Joint Legislative Oversight and Sunset Committee Performance Review Questionnaire, as it was completed by the agency under review. When appropriate, the analyst who prepared this report made minor changes to grammar and the organization of information provided in the questionnaire, but no changes were made to the substance of what the agency reported. Any points of consideration which arose in analyzing the questionnaire and compiling this report are addressed in the section titled, "Additional Comment from the Committee Analyst." It is the intent of the analyst to make any substantive changes which may be required, as the result of findings made through the review processes, in the final version of this report.

The statutes governing and applying to the agency under review are included as appendices to this draft report. They are included only as a reference for JLOSC members and may not be included in the final report.

# FACT SHEET

March 6, 2020

**Review of Drainage Program** 



#### **Tax Ditch**

- → Tax ditch organizations are political subdivisions whose primary purpose is to establish channel outlets for essential drainage, flood protection, and stormwater control practices.
- → 3 distinct funding sources:
  - o 3921 Funds (General Assembly).
  - Annual Bond Bill allocation (General Assembly).
  - Maintenance Tax (Tax Ditch Organization).
- → Drainage Program provides administrative support for development, operation, maintenance, and other efforts associated with tax ditches.
- → GIS map of all 234 individual tax ditch organizations is available through DNREC.

#### **Drainage Projects (RC&D)**

- → Partnership between DNREC and Delaware's 3 county Conservation Districts.
  - NCCD leads projects in NCC while DNREC leads projects in Kent and Sussex counties.
- → State appropriations provide for development and completion of projects.
  - From FY96 to present, 1,663 projects totaling over \$68 million were completed.
  - Appropriations from the Bond Bill has ranged from \$0 to \$5 million (FY 18, FY 19, FY 20).
- → Project Prioritization List updated annually.
  - Ongoing process is flexible allowing funds to be directed to most critical projects.
  - Factors considered: public safety, flooding frequency, project status, damage, funding, age.
- → 1,076 unfunded projects with deficit of \$88 million.

#### **Challenges & Opportunities for Improvement**

- → Stable funding source would allow for better planning and an increase in completed projects.
- → High demand for engineers and surveyors in the private sector has made hiring and retaining staff difficult.
- → Aspects of the tax ditch system are not functioning well, and the drainage program is recommending a task force be established to investigate the causes and propose solutions to benefit the program.
- → A realignment of the Drainage Program could lead to increased effectiveness. See below:

# REALIGNMENT

# TAX DITCH

#### TAX DITCH LAW

Implementation, organizational support, outreach, education, evaluations

#### STATEWIDE SURVEY WORK & PERMITTING

For DNREC and Conservation District managed projects

# PUBLIC

#### DITCH

#### **RC&D PROGRAM**

Drainage concerns, coordination with Districts, project development

#### **OVERSIGHT**

Contract development and oversight, project oversight, landowner permission, small projects

# **EXECUTIVE SUMMARY**

The Drainage Program within the Conservation District Operations section is tasked with multiple responsibilities under two distinct umbrellas: tax ditches and drainage projects.

Tax Ditch: In 1951, a new drainage law allowed the creation of political subdivisions called tax ditches. The primary purpose of these ditches is to establish channel outlets for essential drainage and flood protection. From these outlets, individual landowners can construct private channels for use in management of their lands for all resources and installation of various conservation and stormwater control practices. The Drainage Program provides administrative support for the development, operation, maintenance, and efforts of the 234 individual tax ditch organizations statewide.

Tax Ditch funding can be divided into 3 distinct sources. 2 appropriations made by the General Assembly (3921 Funds and annual Bond Bill funds) and one maintenance tax.

Drainage Projects: Resource, Conservation and Development ("RC&D") projects are implemented by a partnership between DNREC and Delaware's 3 county Conservation Districts. The New Castle Conservation District leads projects located in New Castle County. DNREC leads projects in Kent and Sussex Counties, with assistance from the Kent and Sussex Conservation Districts.

Each year the Drainage Program, in consultation with the Conservation Districts, prepares a list of prioritized RC&D projects in each county. Project prioritization is used as a tool to guide project development. It is an ongoing process that is flexible and allows funds to be directed to the projects that are most critical. From FY 1996 to the present, 1,663 RC&D projects totaled \$68,539,286. There remain 1,076 unfunded projects, with an estimated deficit of approximately \$88 million.

#### **Challenges:**

Stable Funding: Over the years, the state budget process has yielded large fluctuations in allocations to the Drainage Program. A stable funding source would allow for better planning and, in turn, an increase in completed projects.

Staffing and Retention: In recent years, increased development statewide has created a high demand for engineering and surveying positions in the private sector. With state salaries not as competitive, the Drainage Program has had difficulty attracting qualified applicants.

#### **Opportunity for Improvement:**

Drainage Program Realignment: A realignment of the Drainage Program's functionality could lead to increased effectiveness. The Drainage Program could function as 2 separate operating units within the Conservation Programs section of the Division:

- 1. The Tax Ditch Program.
- 2. The Public Ditch Program.

# JLOSC PERFORMANCE REVIEW QUESTIONNAIRE

#### AGENCY HISTORY

Prior to 1951, drainage organizations in Delaware were established as corporations or ditch companies to address drainage issues on a larger scale. In 1951, a new drainage law allowed the creation of political subdivisions called tax ditches. The law had three elements:

- 1. Tax ditches were meant to be permanent organizations.
- 2. A maintenance tax for keeping the channels in good working order was required.
- 3. Tax ditch organizations would be formed for the purpose of conservation of the soil, water, wildlife, forest, and other resources of Delaware.

To accommodate and support the growing tax ditch systems, the Drainage Program was established in Title 7, Chapter 41 of the Delaware Code as "Drainage of Lands and Management of Waters; Tax Ditches." The law mandates the Division of Watershed Stewardship to carry out a comprehensive drainage program providing a uniform system for establishing, financing, administering, maintaining, and dissolving tax ditch organizations in the State. Over the years, the Drainage Program has grown significantly. The largest growth occurred because of a legal settlement of \$220 million dollars in the mid-1990s. The Resource, Conservation and Development ("RC&D") 21st Century Funds earmarked a portion of the settlement funds towards the management, oversite, and implementation of targeted drainage projects.

In 1993, a Supreme Court decision affirmed the state's right to collect abandoned property held by Delaware incorporated brokers. In early 1994, SB 288 created the RC&D 21<sup>st</sup> Century Fund ("Fund"), authorizing the Secretary of Finance to deposit settlement dollars into the Fund. The strategy for the Fund was outlined in the fiscal year ("FY") 1996 Bond Bill with ten programs identified in three areas: Preserving the Environment, Revitalization of Communities, and Improving Education and Economic Competitiveness. Under Revitalization of Communities, RC&D was targeted for funds in order to "enhance the health of communities by ameliorating watershed and drainage issues statewide." These programs have dollar match requirements in addition to loan options to leverage funds from public and private sources.

The Department of Natural Resources and Environmental Control ("DNREC") was designated as responsible for the funding earmarked to focus on management, oversight, and implementation of the funds, which led to the creation of the "Public Ditch Team" within the Drainage Program. RC&D projects are implemented by a partnership between DNREC and Delaware's three county Conservation Districts. Continued funding has allowed these partnerships to address the ever-increasing demand for new RC&D projects. The size and scope of the drainage projects considered for the Fund fluctuate significantly as do the annual appropriations from the Bond Bill.<sup>2</sup>

<sup>&</sup>lt;sup>1</sup> See Appendix A for complete governing statute.

<sup>&</sup>lt;sup>2</sup> See Appendix B for the RC&D Annual Report for FY19.

#### **PURPOSE**

The Drainage Program within the Conservation District Operations section is tasked with multiple responsibilities under two distinct umbrellas: tax ditches and drainage projects.

**Tax Ditch**: The primary purpose of tax ditches is to establish channel outlets for essential drainage and flood protection. From these channel outlets, individual landowners can construct private channels for use in management of their lands for all resources and installation of various conservation and stormwater control practices.

Tax ditch channels range in size from approximately 6 to 80 feet wide and 2 to 14 feet deep. Size varies based on the size of the site and topography of the area. The Drainage Program provides administrative support for the development, operation, maintenance, and efforts of the tax ditch systems. With 234 individual tax ditch organizations statewide, this support is critical for dependable drainage and flood protection. Tax ditch organizations range in size from the 56,000-acre Marshyhope Creek tax ditch to the two-acre Alban Park tax ditch in suburban Wilmington. These tax ditch organizations manage over 2,000 miles of channels and provide direct or indirect benefits to approximately 100,000 people and almost one-half of the state-maintained roads. Additionally, tax ditches and the support provided by the Drainage Program assist in the reduction of saturated soils allowing for efficient farming practices and the development of residential property. However, with the increased development of residential property, the processes surrounding tax ditches have become more challenging.

**Drainage Projects**: RC&D projects are implemented by a partnership between DNREC and Delaware's three county Conservation Districts. The New Castle Conservation District leads projects located in New Castle County. DNREC leads projects in Kent and Sussex Counties, with assistance from the Kent and Sussex Conservation Districts.

Each year the Drainage Program, in consultation with the Conservation Districts, prepares a list of prioritized RC&D projects in each county.<sup>3</sup> Project prioritization is used as a tool to guide project development. It is an ongoing process that is flexible and allows funds to be directed to the projects that are most critical. This flexibility has been necessary in recent years because it has allowed funds to be directed to areas damaged by the record rainfall. The following factors are considered when prioritizing projects:

- Public safety.
- · Frequency of flooding.
- Project status.
- Property damage.
- · Ability to leverage other funds.
- Project age.

From FY 1996 to the present, RC&D projects total \$68,539,286 for 1,663 completed projects. There remain 1,076 unfunded projects, with an estimated deficit of approximately \$88 million.

<sup>&</sup>lt;sup>3</sup> See Appendix C for Proposed RC&D Projects for FY20.

#### **MISSION**

#### **DNREC's Mission Statement**

DNREC's mission is to ensure the wise management, conservation, and enhancement of the State's natural resources, protect public health and the environment, provide quality outdoor recreation, improve the quality of life, and educate the public on historic, cultural, and natural resource use, requirements, and issues.

#### **Conservation Programs Section Mission Statement**

The Conservation Programs Section's mission is to use an adaptive approach of education, research, technical, and financial assistance to improve water quality, conserve and protect natural resources, and preserve public health and safety.

#### **Drainage Program Mission Statement**

The Drainage Program's mission is to provide effective, environmentally balanced water management services that are sustainable to citizens of Delaware for the preservation of public health and safety.

#### **GOALS & OBJECTIVES**

**Tax Ditch**: The Drainage Program's goals and objectives are outlined in Title 7, Chapter 41 of the Delaware Code and include the following:

- Assistance with preparing and filing tax warrants.
- Assist in the efforts to pursue court ordered changes.
- Conduct tax assessments and property ownership updates.
- Provide technical and financial assistance to districts for final design, construction, repair, and maintenance.
- Assist with compliance of federal and state requirements for construction, repair and maintenance activities.
- Assist with maintenance and inspection of tax ditch systems.
- Update list of tax ditch systems and information.
- Modify court orders as required to meet ever changing needs of the tax ditch organizations.
- Resolve problems within and for the tax ditch organizations.
- Assist in commissioner appointments.

Technical assistance includes the following services that further address core responsibilities including:

- Drainage concern responses.
- Environmental permitting.
- Surveying.
- Construction review.
- Engineering guidance

Additional services focus on managing the data and mapping needs of internal and external customers. Additional services include:

- Tax ditch geographical information systems ("GIS") data.
- Tax information.
- Officer contact database.
- Organization information.
- Application development and maintenance for internal customers.

Lastly, the Drainage Program provides in-depth technical outreach and educational services about drainage and tax ditches including:

- Online services.
- Guidance documents.
- · Training to tax ditch officers and other stakeholders.

**RC&D Projects**: The DNREC Drainage Program, in cooperation with the Conservation Districts, is tasked with managing the Fund and ensuring RC&D projects are prioritized, developed, designed, engineered, and completed as available funding permits.<sup>4</sup> The goals and objectives for the successful management of the Fund include the following:

- Receive, respond, and address a drainage complaint in a timely manner.
- Develop an appropriate recommendation for funding.
- Forward to appropriate agency if not within DNREC, DelDOT, or Conservation Districts.
- Secure project approval by legislature for addition to RC&D Fund project list.
- Develop project, secure landowner permission, and conduct survey of the project area.
- Develop appropriate environmental permit applications.
- Design, fund, construct, and monitor project for stabilization and success.

#### JOINT LEGISLATIVE OVERSIGHT AND SUNSET COMMITTEE REVIEW

JLOSC last reviewed the Conservation Districts in 2008.<sup>5</sup> Several recommendations were adopted specific to each Conservation District including providing post-retirement health benefits, continuing oversight and public education surrounding retention ponds, making websites more user friendly, and providing more public awareness for the Board of Supervisor elections. The following adopted recommendations were specific to DNREC's Division of Soil and Water Conservation of DNREC:

- DNREC to increase fines, "stop work" on a site, and update storm water regulations.
- Report back with recommendations on how to tighten up the Certified Construction Reviewers process.

<sup>&</sup>lt;sup>4</sup> See Appendix D for the list of the Prioritized Active RC&D Projects.

<sup>&</sup>lt;sup>5</sup> See Appendix E for the 2008 Joint Sunset Committee Final Report.

#### **PUBLIC INFORMATION**

The Drainage Program provides a vast amount of information and resources to Delaware residents, landowners, consultants, contractors, non-profit organizations; federal, state, and county agencies; and the tax ditch organizations across the State.<sup>6</sup> The information that is available to the public relates to tax ditches and tax ditch organizations and their functions and responsibilities. Additionally, the Drainage Program provides detailed technical assistance to interest groups when addressing drainage concerns and issues regarding water quality improvement projects on private properties.

Landowners: Drainage Program staff provide technical assistance to landowners across the State with reported drainage concerns, including:

- Site visit and evaluation of reported concern.
- · Field survey of problem area.
  - o Process of survey data to provide potential solution or path forward towards resolution.
- Technical assistance and guidance in obtaining proper environmental permit coverage for a landowner's proposed project or activity.
- Technical assistance and guidance for landowners who petition for the creation of a tax ditch organization.
- Preliminary and final design of potential solutions.
- Engineers' cost estimate for proposed projects.
- Secure funding for proposed project.
- Administration and technical management of projects through construction.
- Obtaining all necessary landowner agreements for conducting projects when on private property.

Tax Ditch Officers: Information most frequently requested and supplied to the 234 tax ditch organizations on an annual basis include the following:

- Tax ditch organization system maps.
- · Tax ditch organization assessment lists.
- Tax ditch system inventory and inspections.
- Tax ditch warrant change evaluation and guidance.
- Tax ditch expected revenue versus actual revenue reports.
- Tax ditch financial reporting guidance, record, audits, IRS inquiries, banking, and bonding guidance.
- Tax ditch annual meeting attendance, support, and advertisement assistance.
- Census Bureau survey assistance.
- Tax ditch right-of-way obstruction assistance.

Tax Ditch Organizations: The following items and information are provided to each tax ditch organization at least manually and as requested:

<sup>&</sup>lt;sup>6</sup> Reference information for stakeholders can be found here: http://www.dnrec.delaware.gov/swc/Pages/DrainageTaxDitchWaterMgt.aspx.

- Tax ditch field survey frequency depends on problems faced by organization.
- Tax ditch maintenance work stakeout frequency depends on maintenance planned for the tax ditch organization.
  - o Tax ditches may have multiple maintenance projects planned at various times throughout the year.
- Tax ditch maintenance inspections frequency depends on maintenance activities planned and the scope of projects.
  - o Maintenance activities pop-up throughout the year on multiple tax ditches.
- Tax ditch maintenance work permit applications Drainage Program staff evaluate the site and determine permit needs to complete activities requested.
- Tax ditch pipe sizing requests frequency depends on tax ditch organizations' needs.
  - o Includes sizing all pipe crossings to be located within tax ditch channels whether they are replacements or new installations.
- Obtained tax ditch maintenance permits distributed and filed for tax ditch records.
- Hosting pre-construction meetings for tax ditch maintenance activities.
  - O Drainage Program staff conduct pre-construction meetings with contractors selected by tax ditch organizations to review project scope, design, permit conditions, etc. prior to start of tax ditch maintenance activity.
  - O Requests pop up throughout the year, on multiple tax ditches; tax ditch may have more than one project requiring a pre-construction meeting.

County Government Offices: The following information is supplied to each county's Data Processing section to ensure appropriate processing of a tax ditch on property tax bills issued by the counties annually:

- Tax ditch assessment updates.
- Data and GIS files that reflect changes throughout the tax ditch watershed.

Drainage Program staff supplies the following information to the Prothonotary's Office and Recorder of Deeds of each county on an annual basis for all tax ditch organizations:

- Tax ditch warrant change documentation and submission.
- Tax ditch certified lists.

*DelDOT:* Drainage Program staff supplies the following information to DelDOT:

- Review of DelDOT's proposed plans as it relates to tax ditch channels.
- Minimum pipe size and specifications for road crossings in tax ditch channels.
- Stake out for road crossing installation or replacements in tax ditch channels.

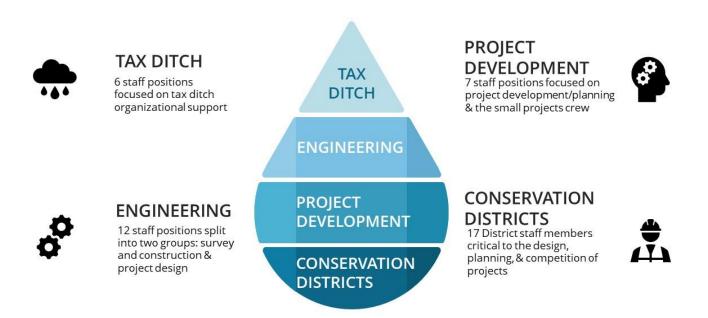
Taxable Parcels, Contractors, and Consultants: There are 60,383 parcels across Delaware located within a tax ditch watershed. The Drainage Program provides the following information to the owners of these taxable parcels, contractors, and consultants. The following items are often requested on a daily basis:

Tax ditch right-of-way ("ROW") inquiry responses.

- o Tax ditch ROW inquiry web application.
- o Tax ditch map web application.
- Site evaluations for reported drainage or tax ditch concerns.
- Tax ditch annual meeting minutes on record in the Drainage Program office.
- Court-ordered change assistance for tax ditches including the following:
  - o Coordination among landowner, consultant, and tax ditch officers regarding landowner request.
  - o Drafting and editing document to request change to court order.
  - o Distribution of final court order change document for necessary signatures.
  - o Distribution of instructions for filing document to change court order to landowners once completed.
- Site plan review and coordination with tax ditch officers.
- Tax ditch stakeout for landowner's proposed and planned project for a tax ditch channel.
- Technical assistance and guidance for proposed projects at the landowner's request and on their property as it relates to tax ditch channels and the associated right-of-way (ROW).

#### **COMPOSITION & STAFFING**

The Drainage Program is currently divided into three distinct teams: Tax Ditch, Engineering, and Project Development.<sup>7</sup>



<sup>&</sup>lt;sup>7</sup> See Appendix F for the applicable Organizational Charts.

Positions not represented above are Project Manager II ("PMII") and Administrative Assistant I. Staffing levels currently include 27 positions (10 Merit and 17 Conservation District) of which 11 positions (5 Merit and 6 Conservation District) are currently vacant. In the past, as many as 35 full-time employees were appointed to the Drainage Program. These numbers have declined as budget conditions have demanded staff level reductions.

The Drainage Program relies heavily on the 17 Conservation District staff members. These employees are defined as District co-op employees and are dedicated to the Drainage Program to fulfill the critical roles such as engineers, planners, surveyors, construction technicians, and other technical support specialists. Current vacancies are all in Kent County, as follows:

- Engineer, Planning and Surveying Technician IV.
- Engineer, Planning and Surveying Technician III.
- Engineer, Planning and Surveying Technician I.
- Engineer III.
- Engineer III.
- Construction Tech I.

The need to solve drainage and watershed issues has increased in the southern region of the State. To meet the increased need, the Drainage Program is adding positions and allocating additional resources. However, the recent construction boom in Sussex County has created a high demand for these technical positions within the same classifications (e.g. surveyors, engineers, and project managers). With higher pay availability in the private sector, the Drainage Program has experienced a higher than normal turnover rate. State salaries in these technical fields are no longer competitive with the private sector, and the Drainage Program has subsequently faced the difficult challenge of attracting qualified applicants for vacant positions.

#### **ENACTED LEGISLATION IMPACTING DIVISION**

DNREC was created in 1969-1970, along with the Division of Soil and Water Conservation.

- The Division of Soil and Water Conservation later became the Division of Watershed Stewardship. See Chapter 80, Title 29.
- The Drainage Program is under the Division of Watershed Stewardship and operates under the Division's statutory authority. The Drainage Program provides administrative and technical support to tax ditch organizations under the 1951 Tax Ditch Law, last revised in July2008. See Title 7, Chapters 39 and 41.

- Under DNREC's authority and general programs, the three soil and water conservation districts now known as Sussex Conservation District, Kent Conservation District and New Castle Conservation District were established in 1953. See Title 7, Chapter 39.
- Under DNREC's authority and supervision, tax ditches provide a basis for a uniform system for establishing, financing, administering, maintaining and dissolving tax ditch organizations in Delaware. Established in 1951 and last revised in 2008.
- Under DNREC's authority and supervision, a basis is provided for a uniform system of establishing, financing, administering, maintaining and dissolving lagoon organizations so that the improvement and management of lagoon waterways may be accomplished in a workable and practicable manner See Title 7, Chapter 43 established in 1951 and last revised in 2008.

#### **Federal Laws and Regulations Impacting Division**

- Permit requirements by the U.S. Army Corp of Engineers.
- Tax Identification Numbers for Government Entity required by the Internal Revenue Service for tax ditch organizations.
- U.S. Department of Commerce, Census Bureau Responds to Census surveys required for tax ditch organizations.
- Environmental Protection Agency ("EPA") Travel by boat in a tax ditch required to follow the U.S. rule of waters.
- Endangered Species Act ("ESA").
- National Oceanic and Atmospheric Administration ("NOAA").
- U.S. Fish and Wildlife Service ("USFWS").
- National Pollutant Discharge Elimination System ("NPDES"), federal EPA and state authority.

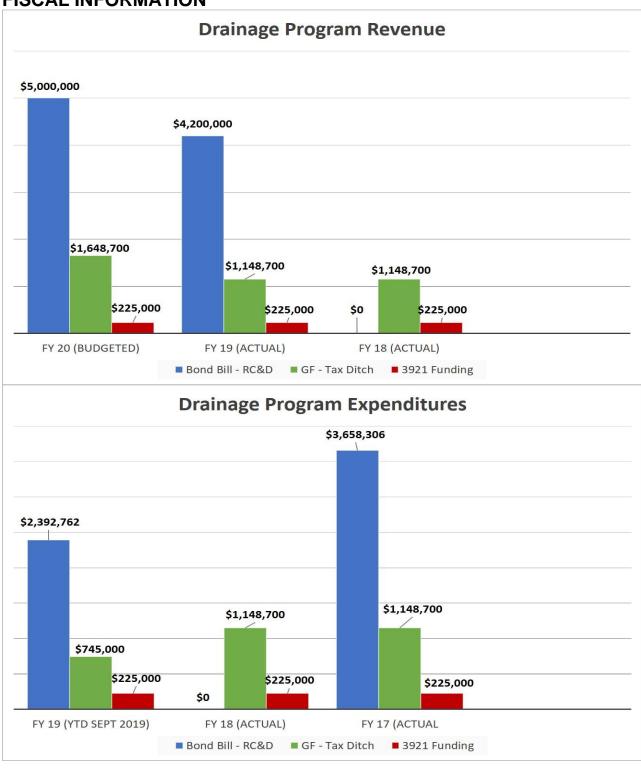
#### FREEDOM OF INFORMATION ACT COMPLIANCE

The Department of Watershed Stewardship follows DNREC's "Policies and Procedures Regarding FOIA Requests."8

When the Drainage Program assists a tax ditch organization with a "jump start" meeting, §4159, Title 7 requires notices be mailed first class to each of the taxable parcels within the watershed for the subject tax ditch. Drainage Program staff take meeting minutes, which are and available upon request.

<sup>&</sup>lt;sup>8</sup> See <a href="https://regulations.delaware.gov/AdminCode/title8/900.pdf">https://regulations.delaware.gov/AdminCode/title8/900.pdf</a>.

#### FISCAL INFORMATION9



<sup>&</sup>lt;sup>9</sup> See Appendix G for RC&D Expenditures for FY19.

#### Tax Ditch Funding

Tax Ditch funding can be divided into 3 distinct sources. 2 appropriations made by the General Assembly and 1 maintenance tax authorized under Title 7, Chapter 41.

1. State and County Matching Funds aka "3921 Funds"<sup>10</sup> Sections 3921 through 3922, Title 7 authorize an annual state appropriation of \$75,000, with matching county funds. The Division of Watershed Stewardship passes the funds directly to each conservation district. The funds may be used to pay or assist in paying all costs, including personnel required for planning, construction, installation, and maintenance of tax ditches, public group ditches, highway ditches, and resource conservation projects in Sussex, Kent, and New Castle Counties.

#### 2. Tax Ditch Bond Bill Funds

Annual tax ditch appropriations through the Bond Bill (GF) are used to support all tax ditch program efforts at the state level.<sup>11</sup> This funding is used to:

- Continue to provide technical assistance to the state's 234 tax ditches.
- Develop both tax and public ditch projects, including drainage and watershed investigations, planning, surveying, engineering, permitting, and contract administration.
- Assist with grant opportunities such as U.S.D.A. Natural Resources Conservation Service's Regional Conservation Partnership Program and Chesapeake Bay Grants.

#### 3. Tax Ditch Organization Funds

Delaware Code gives tax ditch organizations formed under Chapter 41, Title 7 the power to levy maintenance taxes and outlines how rates are established, and taxes are collected. Most tax ditch organizations collect only the minimum necessary to complete needed maintenance with the assistance of state and county matching funds.

#### **Drainage Projects Funding**

State appropriations provide for the development and completion of RC&D drainage projects administered through a partnership between DNREC and the conservation districts. As previously noted, New Castle Conservation District leads projects in New Castle County. DNREC leads projects in Kent and Sussex Counties, with assistance from the Kent and Sussex conservation districts. Current projects range from \$500 to \$4 million with the annual appropriations from the Bond Bill ranging from \$0 to \$5 million; no appropriations were allocated from FY 2009 to FY 2016 or FY 2018. The Bond Bill allocated \$4.2 million in FY 2019 and \$5 million in FY 2020.

<sup>&</sup>lt;sup>10</sup> See Appendix H for the 3921 District Agreement.

<sup>&</sup>lt;sup>11</sup> See Appendix I for the Tax Ditch Agreement.

<sup>&</sup>lt;sup>12</sup> See Appendix J for the New Castle Conservation District Agreement.

#### **ACCOMPLISHMENTS**

#### Tax Ditch

Gum Branch Tax Ditch: The Gum Branch Tax Ditch was originally divided into nine separate sections from 1961 until 2019. Each section collected tax for maintenance of the respective section or prong and the Main. The tax ditch organizations needed to borrow funds for maintenance.

Under the current law, tax ditch organizations are unable to borrow enough funds because of how the sections were originally established. The Drainage Program assisted the Gum Branch Tax Ditch in combining their 9 independently taxed and managed ditch sections into only one. At a special meeting on March 27, 2019, the affected landowners discussed and voted to combine the sections and borrow funds to perform needed maintenance work. The Drainage Program assisted the Gum Branch Tax Ditch in obtaining a loan from MidAtlantic Farm Credit. This was a first for a Delaware tax ditch organization and may be a model for other communities to obtain needed funding at a reasonable rate to perform necessary maintenance work.

Tax Ditch Auditing Procedures: The Drainage Program and State Auditor's Office developed auditing procedures for tax ditch organizations.<sup>13</sup> Training workshops for tax ditch officers were hosted across the State. Since then, the number of records submitted to the Drainage Program and conservation district offices has significantly increased, meaning more tax ditches are complying and eligible for state and county cost share funds.

Planning Grant: The Drainage Program coordinated efforts with the USDA - National Resource Conservation Service to develop an application for a watershed planning grant for the Upper Nanticoke. The grant was awarded, and planning activities will begin in FY2020.

*Drone Technology:* Staff certification and the development of policies and protocols for the implementation of drone technology have been conducted, allowing for tax ditch system inspections and aiding with the update of operation and maintenance plans.

Web Based Information Access: A GIS map of all tax ditches statewide is available online for public access and use. Similarly, a ROW inquiry is also available for landowners and the real estate community to acknowledge tax ditch channels and associated ROWs on a parcel.

<sup>&</sup>lt;sup>13</sup> See Appendix K for the Tax Ditch Audit Procedures Guide.

#### **Drainage Projects**

From FY 1996 to the present, 1,663 completed RC&D projects totaled \$68,539,286. The Drainage Program, with its partners at each conservation district, saw several critical projects completed in FY 2019. Over \$3 million worth of projects were accomplished and FY 2020 is anticipated to exceed that amount. The New Castle Conservation District has been especially productive, completing 30 of their 50 highest priority projects. In Sussex County, a \$1.6 million project will improve drainage to over 50 properties and 4 statemaintained roads. In Kent County, a project reconstructed over 6,000 feet of privately-owned ditches.<sup>14</sup>

#### **CHALLENGES**

Stable Funding: State appropriations for RC&D projects and tax ditch management are the primary source of funding used to administer watershed and drainage related projects. Over the years, the state budget process has yielded large fluctuations in allocations to the Drainage Program. A stable funding source would allow for better planning and, in turn, an increase in completed projects.

Staffing and Retention: High turnover of staff has resulted in several vacancies. In recent years, the increased development statewide has created a high demand for engineering and surveying positions in the private sector. As such, the Drainage Program has faced higher than normal vacancy rates. Additionally, as State salaries are not as competitive as the private sector in these technical fields, the Drainage Program has faced the difficult challenge of attracting qualified applicants for vacant positions.

Shifting Resource Needs: A major shift in RC&D project locations has seen an increased demanded for staff and resources. The number of drainage and watershed issues have increased in the southern region of the state. As such, the Drainage Program responded by adding positions and resources.

Overall, the Drainage Program and Conservation Districts do not have the capacity to complete all approved projects in a single year. Therefore, as part of the project prioritization process, the program looks at the next fiscal year to develop priorities, estimating the funding needs in each county. Consequently, the Prioritized Project List and annual priorities for each county can change in any given year. These changes could occur for several reasons including severe weather events, a public safety problem, issues with landowners, or the opportunity to leverage RC&D funds to get additional dollars through grants or matching funds.

<sup>&</sup>lt;sup>14</sup> See Appendix L for a list of completed RC&D projects for FY19.

#### OPPORTUNITIES FOR IMPROVEMENT

Drainage Program Realignment: In addition to stable and reliable funding, a realignment of the Drainage Program's functionality could lead to increased effectiveness and project management. The Drainage Program could function as 2 separate operating units within the Conservation Programs Section of the Division of Watershed Stewardship as follows:

- The Tax Ditch Program
- The Public Ditch Program

Under this proposed realignment, an Environmental Program Manager II would lead each program unit and report directly to the Administrator of the Conservation Programs Section. The Tax Ditch Program would have an estimated 15 positions focused on tax ditch organization support and the survey and construction of related projects. The Public Ditch Program would focus on the design and planning of RC&D drainage projects and manage the small projects crew. The Public Ditch Program would also have 14 positions.

Given the nature of the responsibilities, both programs would have some overlapping responsibilities, but the intention is to assign the tasks as defined below:



### TAX

## DITCH

#### TAX DITCH LAW

Implementation, organizational support, outreach, education, evaluations

#### STATEWIDE SURVEY WORK & PERMITTING

For DNREC and Conservation District managed projects

## **PUBLIC**

## DITCH

#### RC&D PROGRAM

Drainage concerns, coordination with Districts, project development

#### OVERSIGHT

Contract development and oversight, project oversight, landowner permission, small projects

With this realignment, an existing PMI position would need to be reclassified to a PMII within the Public Ditch Program. The request to do so was submitted to Department of Human Resources ("DHR") in September 2019.<sup>15</sup>

Tax Ditch Modernization: Over 90% of the tax ditch channels were constructed before 1985. The recommended maintenance cycle is every 15-20 years. If maintained as recommended, most tax ditches should have undergone major maintenance 2 to 4 times since construction. After multiple maintenance cycles, tax ditches can experience significant issues regarding bank stability. In addition, many ditches have not been maintained on the recommended timetables, as many tax ditch managers have historically completed repair projects only after a problem occurs.

Maintenance and modernization matters have led to the following issues:

- Funding needs.
- Operational controls.
- Environmental issues and topics.
- Administrative oversight and tax ditch organizational leadership.

The Drainage Program recommends establishing a task force to investigate these issues and propose solutions that would benefit the diverse range of stakeholders. <sup>16</sup>

Redefine the Role of the Conservation Districts in Kent and Sussex Counties: With the uncertainty of funding and higher than normal vacancy rates, the Drainage Program has shifted responsibility of scalable and manageable RC&D projects to the Conservation Districts, particularly in Sussex County. For example, in 2019, DNREC entered into an agreement with the Sussex Conservation District ("SCD"), under which the SCD serves as the managing agency to 20 projects with an anticipated cost of \$400,000. The SCD is currently addressing these established drainage issues and ensuring prioritized projects are completed in a timely manner. DNREC serves in a technical and advisory capacity and provides engineering and permit advice, secures landowner agreements, and inspects for final completion.<sup>17</sup> This cooperative arrangement is designed to expedite the project implementation process and address priority projects efficiently and effectively. If successful, DNREC intends to expand this arrangement with the Kent Conservation District.

<sup>&</sup>lt;sup>15</sup> See Appendix M for the Drainage Program realignment proposal.

<sup>&</sup>lt;sup>16</sup> See Appendix N for the tax ditch modernization document.

<sup>&</sup>lt;sup>17</sup> See Appendix O for the Sussex Conservation District agreement.

# ADDITIONAL COMMENT FROM THE COMMITTEE ANALYST

On February 26, 2020, the following questions were submitted to the Department for clarification.

- 1. Clarification on the RC&D project timeline: What is the process from initial inquiry to the department to project completion?
- 2. How does the process of project prioritization work? Is there a mechanism that ranks the active projects that are then approved? Are they scored a specific way?
- 3. How would a member of the public submit a drainage concern? Is there an email address? Phone number? How does the Division typically become involved in a drainage issue?
- 4. Is there a list of the 234 tax ditch organizations broken out by county? A GIS map is available online but is there a comprehensive list available?
- 5. Are federal dollars ever applied to RC&D or tax ditch projects? If so, is it recurring or one-time? Additionally, is there a mechanism to try and attract federal dollars?

DNREC's response was received on March 6, 2020 and can be found in Appendix P.

§ 3901 § 3902 § 3903 § 3904 § 3905 § 3906 § 3907 § 3908 § 3909 § 3910 § 3911 § 3921 § 3922 § 3923 § 3925

# TITLE 7

#### Conservation

# Agricultural and Soil Conservation; Drainage and Reclamation of Lowlands

**CHAPTER 39. Soil and Water Conservation Districts** 

**Subchapter I. General Provisions** 

**Subchapter II. State and County Appropriations to Districts** 

#### § 3901 Declaration of policy.

It is the policy of the State to provide for the preservation of the productive power of Delaware land and the optimum development and use of certain surface water resources of the State by furthering the conservation, protection, development and utilization of land and water resources, including the impoundment, and disposal of water and by preventing and controlling floodwater and sediment damages, and thereby to preserve natural resources and promote their beneficial use, control floods, prevent impairment of dams and reservoirs, assist in maintaining the navigability of rivers and harbors, preserve wildlife, provide recreation development, protect the tax base, protect public lands and highways, and protect and promote the health, safety and general welfare of the people of this State.

44 Del. Laws, c. 212, § 2; 7 Del. C. 1953, § 3901; 54 Del. Laws, c. 188, § 2; 55 Del. Laws, c. 456, § 1.;

#### § 3902 Definitions.

For the purpose of this chapter, unless otherwise specifically defined, or another intention clearly appears, or the context requires a different meaning:

- (1) "Board of district supervisors" or "board" means the governing body of a soil and water conservation district, elected or appointed in accordance with this chapter.
- (2) "Cooperator" means a landowner for whom a district provides, or has agreed to provide, in accordance with this chapter, services, material and equipment with respect to the landowner's land within the district.
- (3) "Department of Natural Resources and Environmental Control" or "Department" means the agency responsible for the administration of soil and water conservation districts in Delaware, with the powers and duties prescribed by this chapter.
- (4) "Farmer" means any person holding legal title to a farm and being actively engaged in farming operations.
- (5) "Landowner" or "owner of land" means and includes any person, firm or corporation who shall hold title to any land in this State.
- (6) "Soil and water conservation district" or "district" means a governmental subdivision of this State, the boundaries of which coincide with county boundaries, and having the powers and duties prescribed by this chapter.

44 Del. Laws, c. 212, § 3; 7 Del. C. 1953, § 3902; <u>54 Del. Laws, c. 188, § 2; 57 Del. Laws, c. 711, § 1; 57 Del. Laws, c. 739, § 166.</u>;

#### § 3903 Conservation districts.

The 3 soil and water conservation districts heretofore created under this chapter shall hereafter be known as the Kent Conservation District, the New Castle Conservation District and the Sussex Conservation District, respectively, and the said districts shall continue to exercise all the powers and duties prescribed for districts by this chapter.

7 Del. C. 1953, § 3903; <u>54 Del. Laws, c. 188, § 2</u>; <u>57 Del. Laws, c. 739, § 167</u>; <u>59 Del. Laws, c. 561, § 1.</u>;

#### § 3904 Advisor to Department.

The Department may invite the Secretary of Agriculture of the United States of America to appoint 1 person to serve with the Department in an advisory capacity.

7 Del. C. 1953, § 3904; 54 Del. Laws, c. 188, § 2; 57 Del. Laws, c. 739, § 168.;

#### § 3905 General powers and duties of Department.

- (a) The Department shall:
  - (1) Formulate policies and general programs to be carried out by the Department and by soil and water conservation districts for the prevention of erosion, floodwater and sediment damages and for the conservation, protection, development and utilization of the State's soil and water resources, including the impoundment and disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water;
  - (2) Exercise overall responsibility for administration and direction of the programs of the districts;
  - (3) Advise and assist any district in developing and carrying out its program for the prevention of erosion, floodwater and sediment damages, and the conservation, protection, development and utilization of soil and water resources, including the impoundment and disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water;
  - (4) Cooperate with and give such other assistance, financial and otherwise, as the Department may judge to be useful to any district in the exercise of its powers and performance of its duties, including the entering into of such agreements as may be appropriate with such district, with landowners, and with other state, federal, or local agencies, subject to such conditions as the Department deems necessary to advance the purposes of this chapter;
  - (5) Receive and allocate or otherwise expend any funds appropriated by the General Assembly of this State, or received from any other source, for the use or benefit of the Department or of the districts;

- (6) Be the administrative agency to represent this State in all matters arising from this chapter;
- (7) Keep a full and accurate record of all its proceedings and of all its resolutions, regulations and orders issued or adopted;
- (8) Make an annual audit of all its accounts of receipts and disbursements;
- (9) Formulate and establish rules and procedures for conducting elections of district supervisors, and for conducting all other local referendums which may from time to time become necessary in order to give landowners an opportunity to reach majority conclusions with respect to the programs of the district;
- (10) Make such other rules and regulations as it deems necessary to carry out the purposes of this chapter;
- (11) Make and execute contracts and other instruments, necessary or convenient to the exercise of its powers, with any federal, state or local agency, or with any person; and
- (12) Adopt rules and regulations for surface water impoundment; upon request by any landowner within the drainage area involved, make hydrological and engineering studies to determine pertinent factors, including, but not limited to, the projected supply of available water, the past use of said water and the contemplated water use, and on the basis of said factors to permit impoundment, subject to the jurisdiction and authority of the Secretary and the Department of Natural Resources and Environmental Control to disapprove said permit within 30 days of submission to them of the completed plans and permit by the Department. No action by the Department shall establish any new permanent water rights nor substantially impair any existing rights to beneficial use of water.
- (b) In addition to the above powers, and any other powers granted in other sections of this chapter, the Department may:
  - (1) Appoint such employees as it requires, within the limits of available funds, and determine their qualifications, duties and compensation;
  - (2) Call upon the Attorney General of the State for such legal services as it requires;

- (3) Conduct surveys, investigations and research relating to erosion, floodwater and sediment damages, and to the conservation, protection, development and utilization of land and water resources, including impoundment and disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water, and the prevention and control measures and works of improvement needed; publish the results of such surveys, investigations and research; disseminate information concerning such preventive and control measures and works of improvement; except, that any agricultural research shall be in cooperation with the Delaware Agricultural Experiment Station;
- (4) Develop comprehensive plans for, and carry out, preventive and control measures and works of improvement for the prevention of erosion, floodwater and sediment damages and for the conservation, protection, development and utilization of land and water resources, including the impoundment and disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water;
- (5) Obtain or accept the cooperation and financial, technical or material assistance of the United States or any of its agencies, and of this State or any of its agencies or subdivisions, or from any other source, for use in carrying out the functions of the Department under this chapter;
- (6) Obtain options upon and acquire by purchase, exchange, lease, gift, grant, bequest, devise or otherwise any property, real or personal, or rights or interests therein; maintain, administer and improve any properties acquired; receive income from such properties and expend such income in carrying out the purposes and provisions of this chapter; and sell, lease, or otherwise dispose of any of its real or personal property or interests therein, in furtherance of the purposes and provisions of this chapter, including conveyances, with or without consideration, of lands or interests therein to soil and water conservation districts for use in carrying out their authorized purposes;
- (7) Construct, improve, operate and maintain such structures as may be necessary or convenient for the performance of any of the functions authorized in this chapter, and also, with the prior approval and agreement of the State Highway Department, which under § 131 of Title 17 has responsibility for the absolute care, management and control of public roads, causeways, highways and bridges in the State, construct, improve, protect or repair public roads, causeways, highways or bridges in those cases where

other works of improvement authorized in this chapter affect such roads, causeways, highways or bridges;

- (8) Cooperate, or enter into agreements with, and within the limits of available appropriations or other funds, furnish financial or other aid to any agency, governmental or otherwise, or any landowner, in the carrying out of operations authorized by this chapter, subject to such conditions as the Department may deem necessary to advance the purposes of this chapter;
- (9) Appoint district supervisors in certain cases as in this chapter provided;
- (10) Accept from tax ditches of the State in accordance with § 4161(10) of this title:
  - a. The responsibility for certain specified responsibilities for maintenance of the tax ditch;
  - b. All rights-of-way assigned by court order to the tax ditch for construction and maintenance operations;
  - c. Any and all powers possessed by the tax ditch, or the managers thereof, related to obstruction of, or damage to said tax ditch, or to the addition of territory to a tax ditch, or to the alteration of a tax ditch;
- (11) Carry out specified responsibilities for maintenance of those tax ditches that choose to turn over such rights to the Department;
- (12) Exercise all rights, under law, to utilize and protect the rights-of-way transferred to the Department by tax ditches for maintenance purposes, including those rights pertaining to obstruction of, or damage to, a tax ditch in § 4186 of this title, except that such rights-of-way may be used by the Department or its agents for maintenance purposes only; and
- (13) Cooperate with other agencies and departments of the State, federal agencies, or any other landowners for use of the state dredge at the cost of the state agency and/or department, federal agency or the landowners requesting use of the state dredge. Cost for the use of the state dredge shall be limited to actual project costs incurred by the Department plus an amount equal to 10 percent of the actual project costs incurred for overhead expenses.

7 Del. C. 1953, § 3906; <u>54 Del. Laws, c. 188, § 2</u>; <u>55 Del. Laws, c. 456, §§ 2-6</u>; <u>55 Del. Laws, c. 460</u>; <u>57 Del. Laws, c. 739, §§ 169, 170</u>; <u>59 Del. Laws, c. 166</u>; <u>60 Del. Laws, c. 183, §§ 1-4</u>; <u>67 Del. Laws, c. 306, § 1.</u>;

#### § 3906 Boards of district supervisors; composition; term.

- (a) There shall be a board of supervisors for each district, each board to consist of 4 elected supervisors, an optional supervisor who, in Kent County shall be a member of the Levy Court, in Sussex County shall be a member of County Council, and in New Castle County, shall be the County Executive or the County Executive's designated representative, and 2 optional supervisors who shall not be farmers and who may be appointed by the Secretary of the Department of Natural Resources and Environmental Control upon the request of the district involved. The vote and authority of each supervisor shall be equal. The county agricultural agent shall serve as secretary to the board but shall have no vote.
- (b) The elected members of the Kent and Sussex districts shall be farmers residing in those respective counties. In New Castle County, 2 of the elected supervisors shall be farmers residing in the southern portion of the County, and the remaining 2 who shall not be farmers, shall reside in the northern portion of the County, according to a division established by the Secretary of the Department of Natural Resources and Environmental Control.
- (c) The term of office of each elected supervisor shall be 4 years. The term of office of a supervisor appointed by the Secretary of the Department of Natural Resources and Environmental Control shall be 3 years. An optional supervisor appointed by the Kent County Levy Court and the Sussex County Council shall hold office during the pleasure of that body so long as that optional supervisor remains a member of the appointing body. The Secretary of the Department of Natural Resources and Environmental Control may fill the vacancy of any elected supervisor, or supervisor appointed by the Secretary of the Department of Natural Resources and Environmental Control occurring otherwise than by expiration of term, by appointment of a qualified individual to serve the remainder of the unexpired term.

44 Del. Laws, c. 212, § 6; 7 Del. C. 1953, § 3907; 54 Del. Laws, c. 188, § 2; 55 Del. Laws, c. 462, § 1; 57 Del. Laws, c. 739, § 171; 65 Del. Laws, c. 362, § 1; 70 Del. Laws, c. 186, § 1; 77 Del. Laws, c. 95, §§ 1, 2.;

#### § 3907 Organization of board; quorum; expenses of district supervisors.

The board of district supervisors annually shall designate by election 1 of its members to be its chairperson, and shall designate future chairpersons by the same means. A majority of the board shall constitute a quorum, but the concurrence of a majority of the entire board on any matter within its duties shall be required for its determination, except as the board may invest any of its supervisors with power to determine specified matters or to perform routine duties. The board shall be authorized, in its discretion, to reimburse supervisors for their expenses, including travel expenses, necessarily incurred in the discharge of their duties as members of the board.

Any district supervisor may be removed from office by the Department of Natural Resources and Environmental Control, upon notice and hearing, for neglect of duty or misconduct, but for no other reason.

7 Del. C. 1953, § 3908; <u>54 Del. Laws, c. 188, § 2</u>; <u>57 Del. Laws, c. 739, § 172</u>; <u>70 Del. Laws, c. 186, § 1.</u>;

#### § 3908 Soil and water conservation district; governmental subdivision; powers.

A soil and water conservation district organized under this chapter shall constitute a governmental subdivision of this State, and such district, and the board of supervisors thereof, shall have authority to exercise the following powers, in addition to others granted in other sections of this chapter, subject to the responsibility of the Department of Natural Resources and Environmental Control for the administration and direction of the programs of the districts:

- (1) To develop comprehensive plans for, and carry out, preventive and control measures and works of improvement for the prevention of erosion, floodwater and sediment damages, and the conservation, development and utilization of land and water resources, including the disposal of water and removal of sediment from waterways, lakes, ponds or other bodies of water, within the district;
- (2) To conduct, in cooperation with the Department of Natural Resources and Environmental Control surveys, investigations and research relating to the prevention of erosion, floodwater and sediment damages, and the conservation, protection,

development and utilization of land and water resources, including the disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water;

- (3) To cooperate or enter into agreements with, and, within the limits of appropriations or other funds duly made available to it by law, to provide aid to any agency, governmental or otherwise, or any landowner within the district, in carrying out the program of the district, subject to such conditions as the board may deem necessary to carry out the purposes of this chapter;
- (4) (a) To make available, on such terms as the board shall prescribe, to any landowners within the district, through existing agencies if agreements with them seem feasible, or by such other means as the board shall prescribe, such services, materials and equipment as will assist such landowners to carry on operations for any of the purposes of this chapter;
  - (b) To make available on request, and on such terms as the Board shall prescribe, to any cooperator who is a resident of the State and who owns land in a neighboring state, services, materials and equipment for the benefit of such cooperator's land in the neighboring state;
- (5) To construct, improve, operate and maintain such structures as may be necessary or convenient for the performance of any of the operations authorized in this chapter;
- (6) To obtain options upon and acquire by purchase, exchange, lease, gift, grant, bequest, devise or otherwise, any property, real or personal, or rights or interests therein; to maintain, administer and improve any properties acquired; to receive income from such properties and expend such income in carrying out the purposes and provisions of this chapter; and to sell, lease or otherwise dispose of any of its real or personal property or interests therein, in furtherance of the purposes of the district;
- (7) To accept the cooperation of, and financial, technical and material assistance from, the United States or any of its agencies, or from this State or any of its agencies or subdivisions, or from any other source, for use in carrying out the purposes of the district;

- (8) To sue and be sued in the name of the district; to make and execute contracts and other legal instruments, necessary or convenient to the exercise of its powers, with any federal, state or local agency, or with any person; and to receive and expend funds; and
- (9) To promote the conservation, protection, development and utilization of land and water resources through various informational and educational activities as the Board may deem necessary in the furtherance of its duties under this chapter.

7 Del. C. 1953, § 3909; <u>54 Del. Laws, c. 188, § 1; 57 Del. Laws, c. 711, § 2; 57 Del. Laws, c. 739, § 173; 60 Del. Laws, c. 183, §§ 5, 6; 61 Del. Laws, c. 18, § 1.;</u>

#### § 3909 Cooperation.

Any 2 or more soil and water conservation districts organized under this chapter may cooperate with one another or with the State or any agency or subdivision thereof in the exercise of all powers conferred upon such districts or any or all duties prescribed for such districts by this chapter.

44 Del. Laws, c. 212, § 9; 7 Del. C. 1953, § 3910; 54 Del. Laws, c. 188, § 1.;

# § 3910 Primary jurisdiction of Secretary and the Department of Natural Resources and Environmental Control.

The Secretary and the Department of Natural Resources and Environmental Control shall have paramount jurisdiction over water use in this State. In case of any conflict between this chapter and Part VII of this title, relating to water and air resources, Part VII shall prevail.

7 Del. C. 1953, § 3911; <u>55 Del. Laws, c. 442, § 8</u>; <u>57 Del. Laws, c. 739, § 174.</u>;

#### § 3911 Appeals.

Any owner of land within the drainage area of the watershed or tax ditch involved, aggrieved by the Department's action, may appeal to the Superior Court within 30 days after the date of the hearing. The sole grounds for reversal by the Court, sitting without a jury, shall be:

- (1) Abuse of the Department's discretion;
- (2) Infringement of constitutional rights; or

(3) The impairment of vested rights of the complainant.

In the event of such appeal, the Department shall be represented by the Attorney General of the State.

7 Del. C. 1953, § 3912; <u>55 Del. Laws, c. 456, § 7; 57 Del. Laws, c. 739, § 175.</u>;

# § 3921 Annual appropriations to Division of Watershed Stewardship of Department of Natural Resources and Environmental Control.

The General Assembly shall annually appropriate:

- (1) To the Division of Watershed Stewardship for use in New Castle County, a sum not in excess of \$75,000;
- (2) To the Division of Watershed Stewardship for use in Kent County, a sum not in excess of \$75,000;
- (3) To the Division of Watershed Stewardship for use in Sussex County, a sum not in excess of \$75,000.

7 Del. C. 1953, § 3921; <u>55 Del. Laws, c. 414, § 2; 57 Del. Laws, c. 739, § 176; 57 Del. Laws, c. 749; 60 Del. Laws, c. 326, § 1; 62 Del. Laws, c. 68, § 101; 63 Del. Laws, c. 322, § 106; 69 Del. Laws, c. 291, § 239; 77 Del. Laws, c. 430, §§ 2, 3.;</u>

#### § 3922 Appropriations by the several county governments.

The government of each county shall annually appropriate to the Division of Watershed Stewardship a sum equal to the annual appropriation to the Division by the General Assembly, for use in the respective counties, pursuant to § 3921 of this title.

7 Del. C. 1953, § 3922; <u>55 Del. Laws, c. 414, § 2</u>; <u>57 Del. Laws, c. 739, § 177</u>; <u>57 Del. Laws, c. 749</u>; <u>77 Del. Laws, c. 430, § 4.</u>;

#### § 3923 Use of appropriated money in Sussex, Kent and New Castle Counties.

The money appropriated pursuant to § 3921 of this title shall be used by the Division of Watershed Stewardship to pay or assist in paying all costs including personnel required for

planning, construction, installation and maintenance of tax ditches, public group ditches, highway ditches and resource conservation projects in Sussex, Kent and New Castle Counties, which tax ditches shall be organized under Chapter 41 of this title; Article 2, Chapter 65, and Article 1, Chapter 105 of the 1935 Revised Code of Delaware; and which public group ditches shall be ditches providing water management and drainage for groups of landowners and for landowners and portions of state highways and for which necessary construction permits, easements or rights-of-way for construction and maintenance operations shall have been acquired by this State or by Sussex, Kent or New Castle County, and which highway ditches shall be ditches maintained by the public on state or countyowned easements or rights-of-way adjacent to the roads of Sussex, Kent or New Castle County, and which resource conservation projects shall be defined in applications or project plans submitted to the Secretary of the United States Department of Agriculture for Watershed Planning or Resource Conservation and Development assistance. The money appropriated shall be paid from time to time by the State Treasurer and the governments of Sussex, Kent and New Castle Counties to the Division of Watershed Stewardship, or to the Sussex Conservation District, the Kent Conservation District, or the New Castle Conservation District, or directly to the contractors and suppliers furnishing work, labor, services and materials for such projects or to landowners for rights-of-way or easements, or shall be paid or otherwise made available to other state agencies for work, labor, services and materials for certain portions of such projects as shall be determined by the Division and upon certification by the Division that such payments are proper and for the purposes authorized by this section.

7 Del. C. 1953, § 3923; <u>55 Del. Laws, c. 414, § 2; 56 Del. Laws, c. 92; 57 Del. Laws, c. 739, § 178; 57 Del. Laws, c. 749; 59 Del. Laws, c. 561, § 2; 59 Del. Laws, c. 562, § 1; 64 Del. Laws, c. 382, § 1; 77 Del. Laws, c. 430, § 5.;</u>

#### § 3925 Transfer of funds prohibited.

Funds appropriated for use by a particular district in a particular county shall only be used by that district in that county.

7 Del. C. 1953, § 3925; <u>55 Del. Laws, c. 414, § 2; 57 Del. Laws, c. 749.</u>;

§ 4101 § 4102 § 4103 § 4104 § 4105 § 4106 § 4107 § 4108 § 4109 § 4110 § 4111 § 4116 § 4117 § 4118 § 4119 § 4120 § 4121 § 4122 § 4123 § 4124 § 4125 § 4126 § 4127 § 4128 § 4129 § 4130 § 4131 § 4132 § 4133 § 4134 § 4135 § 4136 § 4137 § 4138 § 4139 § 4140 § 4141 § 4142 § 4143 § 4151 § 4152 § 4153 § 4154 § 4155 § 4156 § 4157 § 4158 § 4159 § 4160 § 4161 § 4162 § 4163 § 4164 § 4165 § 4166 § 4167 § 4168 § 4171 § 4172 § 4173 § 4174 § 4175 § 4176 § 4177 § 4178 § 4179 § 4180 § 4181 § 4182 § 4185 § 4186 § 4187 § 4188 § 4189 § 4190 § 4191 § 4192 § 4193 § 4194 § 4195

## TITLE 7

#### Conservation

Agricultural and Soil Conservation; Drainage and Reclamation of Lowlands

CHAPTER 41. Drainage of Lands and Management of Waters; Tax Ditches

#### **Subchapter I. General Provisions**

#### § 4101 Declaration of policy.

It is declared that the drainage and the prevention of flooding of lands and the management of water for resource conservation shall be considered a public benefit and conducive to the public health, safety and welfare.

48 Del. Laws, c. 151, § 1; 7 Del. C. 1953, § 4101; 50 Del. Laws, c. 276, § 1; 70 Del. Laws, c. 246, §§ 2, 3.;

#### § 4102 Purpose.

It is the purpose of this chapter in carrying out the policy declared in § 4101 of this title to provide a basis for a uniform system for establishing, financing, administering, maintaining and dissolving tax ditch organizations in the State under the supervision of the Department of

Natural Resources and Environmental Control to the end that the conservation and management of the soil, water, wildlife, forest and other resources of the State may be accomplished in a workable and practicable manner.

48 Del. Laws, c. 151, § 2; 7 Del. C. 1953, § 4102; <u>57 Del. Laws, c. 739, § 180; 70 Del. Laws, c. 246, §§ 4, 5.</u>;

## § 4103 Definitions.

For the purposes of this chapter, unless otherwise specifically defined, or another intention clearly appears, or the context requires a different meaning:

- (1) "Benefits" include, but shall not be limited to, the privilege of participating in a cooperative system for the management of water from one's lands by a tax ditch formed under this chapter.
- (2) "Drainage" means water management, by drainage areas or watersheds, to safely remove or control both excess, surface flood waters and damaging, excess subsurface waters.
- (3) "Landowner" or "owner" means that person or group of persons in whom the entire title to a certain tract of land is vested.
- (4) "Taxable" means any person entitled to vote under this chapter.
- (5) "Flooding" means the occurrence of damaging, excess surface water. The occurrence of surface water for beneficial uses is a component of water management, not flooding.
- (6) "Water management" means the removal, storage, or application of water by intentional means, including but not limited to management methods using drains, channels, culverts, structures for water level control and dams.

48 Del. Laws, c. 151, § 3; 7 Del. C. 1953, § 4103; 50 Del. Laws, c. 276, § 2; 70 Del. Laws, c. 246, § 6, 7.;

§ 4104 Application; effect on previously established drainage organizations and on earlier drainage laws.

- (a) Any landowner or owners in an area served by a drainage organization established prior to June 1, 1951, under any other law of this State, or any landowner or owners who desire their lands to be drained or protected from flooding may, at any time, petition for the establishment of a tax ditch under this chapter.
- (b) In those cases, when an existing drainage organization becomes a tax ditch under this chapter, the present assets or liabilities of said existing drainage organization may be transferred to the tax ditch provided that such assets or liabilities are declared by the tax ditch commissioners in their report, and that the transfer of such assets or liabilities is approved by the affected taxables either by a referendum held by board of ditch commissioners pursuant to § 4132 of this title or by a signed statement pursuant to § 4135 of this title.
- (c) Article 2, Chapter 65, and Article 1, Chapter 105, of the 1935 Revised Code of Delaware shall remain in effect and shall apply to drainage organizations established thereunder prior to June 1, 1951, unless such drainage organizations reform or reorganize under this chapter.

48 Del. Laws, c. 151, §§ 7, 69, 75; 7 Del. C. 1953, § 4104; 50 Del. Laws, c. 276, § 3; 56 Del. Laws, c. 312, § 1.;

# § 4105 Limitation of easement or right-of-way.

- (a) Once a tax ditch has been constructed, any right-of-way for the construction and major maintenance of the tax ditch provided such has been created pursuant to this chapter and including tax ditches where rights-of-way were previously defined as "adequate" or "sufficient" unless previously modified by a change to the court order, shall have the maximum extent defined as follows:
  - (1) Tax ditches with a designed 0'-4' bottom width 80' from top of bank and to include the cross-section of the ditch; or the existing construction right-of-way, whichever is less.
  - (2) Tax ditches with a designed 4'-10' bottom width 120' from top of bank and to include the cross-section of the ditch; or the existing construction right-of-way whichever is less.

- (3) Tax ditches with a designed bottom width greater than 10' existing construction and major maintenance right-of-way as filed in the original court order.
- (b) No change to the minor maintenance right-of-way is necessary provided such has been otherwise created pursuant to this chapter.
- (c) The reference point for all tax ditch rights-of-way that are established or modified as a result of 76 Del. Laws, c. 389 or future actions is the nearest top of ditch bank. The "top of ditch bank" is the point where the side slope of the ditch intersects the existing grade of the adjacent land. For ditch sections that have been piped, the point of references shall be the centerline of the pipe.
- (d) An additional deferment of the timeline for the recordation process for certifying rights-of-way as set forth in amendments contained in § 4195(b) of this title and as extended by SCR No. 27 of the 144th General Assembly shall be granted until January 13, 2009.
- (e) For purposes of this chapter:
  - (1) "Construction and major maintenance right-of-way" means the right-of-way created by this chapter for the purpose of construction/reconstruction of the tax ditch, to allow for the piling of debris and to allow spoil to be leveled as part of the construction operations and major maintenance activities including "dipping out" and/or disposal of spoils.
  - (2) "Minor maintenance right-of-way" means the right-of-way created under this chapter for the purpose of maintenance activities that include but are not limited to inspection, mowing, use of specialized equipment for vegetative management (i.e. herbicide applications), removal of debris and obstructions, pipe repairs and installation of crossings for access.

76 Del. Laws, c. 389, § 1.;

# Subchapter II. Boards of Ditch Commissioners

## § 4106 Ditch commissioners; membership; qualifications; term; vacancies; secretary.

- (a) A board of ditch commissioners, consisting of 3 ditch commissioners and 3 alternate ditch commissioners, is continued for each county within the State. Upon the expiration of the terms of office of the present and all future commissioners, the resident judge for each county shall appoint ditch commissioners and alternate ditch commissioners, who may be selected from lists of 10 or more names submitted by the supervisors of the soil conservation district within the county. Each ditch commissioner and alternate ditch commissioner shall be a resident landowner of the county from which the commissioner is appointed, shall have some knowledge of water management including flood and drainage problems and their impacts to natural resources and shall be familiar with farming and with land values within such county.
- (b) The term of office for each ditch commissioner shall be 3 years. The term of office for the alternate ditch commissioners shall be 1 year each. A ditch commissioner or alternate ditch commissioner may be reappointed to succeed himself or herself. All appointments shall be effective as of August 1 of each year.
- (c) In the case of the death, resignation or removal from office of a ditch commissioner, the vacancy shall be filled by the appointment of 1 of the alternate ditch commissioners to serve for the remainder of the term of the vacating ditch commissioner.
- (d) Except in the case of death or removal from office, a ditch commissioner shall hold office until his or her successor has been appointed.
- (e) The Division of Watershed Stewardship shall serve as secretary, without voting authority, for each of the county boards of ditch commissioners.

48 Del. Laws, c. 151, § 4; 7 Del. C. 1953, § 4106; 50 Del. Laws, c. 276, § 4; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, § 8; 76 Del. Laws, c. 213, § 1; 77 Del. Laws, c. 430, § 6.;

## § 4107 Disqualification of members.

In those cases where any member of the board of ditch commissioners owns lands within the boundary of a proposed tax ditch, such member shall not serve as a member of said board on that particular tax ditch and an alternate ditch commissioner shall serve in the member's stead.

<u>48 Del. Laws, c. 151, § 4;</u> 7 Del. C. 1953, § 4107; <u>70 Del. Laws, c. 186, § 1;</u> <u>70 Del. Laws, c. 246, § 9.;</u>

## § 4108 Chairperson; quorum; voting.

A chairperson of each board of ditch commissioners shall be designated by the members thereof and such designation may be changed from time to time. A majority of the ditch commissioners of each board shall constitute a quorum and the concurrence of a majority in any matter within their duties shall be required for its determination.

48 Del. Laws, c. 151, § 4; 7 Del. C. 1953, § 4108; 70 Del. Laws, c. 186, § 1.;

## § 4109 Compensation; expenses and reimbursement.

- (a) The ditch commissioners shall be entitled to receive reimbursement for their expenses necessarily incurred in the discharge of their duty at a per diem rate set by the Secretary of the Department of Natural Resources and Environmental Control, not to exceed \$50, plus mileage reimbursement at the rate established in § 7102 of Title 29, as amended. The ditch commissioners shall be reimbursed for said expenses by the landowners petitioning to have a tax ditch formed. Such reimbursement shall be made from funds deposited in advance by the petitioners at the time the petition is filed or from the first moneys collected by the tax ditch after it is organized, the manner to be decided by the county soil conservation district pursuant to § 4120 of this title.
- (b) Ditch commissioners will be reimbursed for their expenses incurred in the discharge of their duties in connection with the formation of a tax ditch after the ditch order has become effective, or at such time as the Superior Court issues an order denying the petition for the formation of the tax ditch.

48 Del. Laws, c. 151, §§ 4, 5; 7 Del. C. 1953, § 4109; 50 Del. Laws, c. 276, § 5; 57 Del. Laws, c. 739, § 181; 64 Del. Laws, c. 136, § 1.;

# § 4110 Employment of qualified personnel.

The Department of Natural Resources and Environmental Control shall employ personnel, including a Registered Professional Engineer, authorized to practice engineering in this State under Chapter 28 of Title 24, who is qualified by experience in hydraulic engineering, drainage and soil work, to assist it in carrying out its functions under this chapter and to perform related duties within the Division of Watershed Stewardship.

48 Del. Laws, c. 151, § 6; 7 Del. C. 1953, § 4110; <u>58 Del. Laws, c. 312, § 2; 57 Del. Laws, c. 739, § 182; 59 Del. Laws, c. 560, § 1; 77 Del. Laws, c. 430, § 7.</u>;

## § 4111 Employment of personnel; purchase of supplies and equipment.

The Department may employ such personnel and obtain by purchase or otherwise such supplies and equipment as are necessary to carry out this chapter.

48 Del. Laws, c. 151, § 6; 7 Del. C. 1953, § 4111.;

## Subchapter III. Formation of Tax Ditch; Procedure

## § 4116 Nature of a tax ditch.

A tax ditch organized under this chapter shall constitute a governmental subdivision of this State and a public body, corporate and politic, exercising public powers.

48 Del. Laws, c. 151, § 43; 7 Del. C. 1953, § 4116.;

# § 4117 Petition for formation of a tax ditch; assistance of Division of Watershed Stewardship.

(a) Whenever 1 or more of the owners of any lands desire their lands to be drained or protected from flooding, or the waters of their lands to be managed they may present a petition for the formation of a tax ditch to the Superior Court of the county in which all or the major portion of the area involved is located, through the board of supervisors of the soil conservation district of the county.

(b) The services of the Division of Watershed Stewardship shall be available to assist the landowners in the preparation of such petitions.

48 Del. Laws, c. 151, § 7; 7 Del. C. 1953, § 4117; 50 Del. Laws, c. 276, § 8; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, §§ 10, 11; 77 Del. Laws, c. 430, §§ 8, 9.;

# § 4118 Form of petition.

A petition for the formation of a tax ditch shall be in the following form:

	PETITION	
To the Superior Court of Soil Conservation District of		d of Supervisors of the
Whereas the undersigned (is) (are) the need of water management situated in County (Counties), and the State of De as follows	Hundred(s	)
; and		
Whereas the draining and the prevention water for resource conservation on said public health, safety and welfare; and		_
Whereas the undersigned desire that a 41, Title 7 of the Delaware Code, said Ditch;		
The undersigned therefore request the	Soil Conservation District of	
County to make the investigation require	red under the above cited chapte	er and, if the findings
thereon be favorable, to file this petition	n in the office of the Prothonotary	у
of County so that t	the Superior Court of said Count	ty may take the
necessary steps required by law to issu	ue an order establishing	Ditch.

Dated this	_date day of	_month ,	_year at,
Delaware.			

(Space for Signatures)

48 Del. Laws, c. 151, § 8; 7 Del. C. 1953, § 4118; 70 Del. Laws, c. 246, §§ 12, 13.;

## § 4119 Name of tax ditch.

The name of any tax ditch established under this chapter shall not be the same as the name of any existing drainage organization within the same county.

48 Del. Laws, c. 151, § 71; 7 Del. C. 1953, § 4119.;

## § 4120 Deposit upon filing of petitions for tax ditch.

- (a) The county soil conservation district shall require that a specified sum be deposited with it by the petitioners before the petition is filed in the office of the prothonotary to cover filing fees, mailing and other necessary expenses. The amount of the deposit shall be determined by the county soil conservation district and may vary according to the size of the area involved, the complexity of the problem, and other pertinent factors. If the original deposit is not sufficient, the district shall require an additional deposit as soon as the need for such becomes evident.
- (b) The district shall keep an account of such deposits and shall return any unused portion thereof to the petitioners upon completion of final action by the Superior Court. When such action is favorable, the petitioners shall be repaid, out of the first moneys collected by the tax ditch, all expenses of formation charged to them by the county soil conservation district.
- (c) From the funds deposited with it pursuant to this section, the county soil conservation district shall pay filing fees, mailing and other necessary expenses incurred in the investigation and formation of a tax ditch.

48 Del. Laws, c. 151, §§ 14, 15; 7 Del. C. 1953, § 4120.;

§ 4121 Duties of county soil conservation district upon receipt of petition.

The board of supervisors of the county soil conservation district shall, upon receipt of a petition for the formation of a tax ditch, determine whether the petition is in the form set forth in § 4118 of this title and has been properly executed. If the petition is in the prescribed form and has been properly executed, the board shall immediately notify the Division of Watershed Stewardship, and by virtue of such action shall have made available to it the services of the Department of Natural Resources and Environmental Control to assist it with the investigation concerning the possible formation of the tax ditch.

48 Del. Laws, c. 151, § 9; 7 Del. C. 1953, § 4121; <u>57 Del. Laws, c. 739, § 183; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, § 14; 77 Del. Laws, c. 430, § 10.;</u>

## § 4122 Investigation; hearing.

The county soil conservation district shall cause an investigation to be made by the Division of Watershed Stewardship in order to ascertain the general location and approximate watershed boundaries of the proposed tax ditch, and to obtain other information to assist the district to determine whether the formation of the tax ditch is practicable and feasible and is in the interest of the public health, safety and welfare. The district may hold such hearings as it deems necessary in order to assist it in making such determination.

48 Del. Laws, c. 151, § 10; 7 Del. C. 1953, § 4122; 50 Del. Laws, c. 276, § 7; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, § 11.;

## § 4123 Report of investigation by Division of Watershed Stewardship.

The Division of Watershed Stewardship shall make a formal report of its investigation to the county soil conservation district together with its recommendations.

<u>48 Del. Laws, c. 151, § 11;</u> 7 Del. C. 1953, § 4123; <u>57 Del. Laws, c. 739, § 184;</u> <u>59 Del. Laws, c. 560, § 2;</u> 70 Del. Laws, c. 246, § 15; 77 Del. Laws, c. 430, § 12.;

# § 4124 Determination by county soil conservation district.

The county soil conservation district shall, upon the basis of the information obtained under this chapter, determine whether the formation of the proposed tax ditch is practicable and feasible and is in the interest of the public health, safety and welfare. 48 Del. Laws, c. 151, § 12; 7 Del. C. 1953, § 4124.;

# § 4125 Filing of petition and report; action by district when formation is found to be not practicable and feasible.

- (a) If the county soil conservation district determines that the formation of the proposed tax ditch is practicable, feasible and in the interest of the public health, safety and welfare, it shall file the petition in the office of the prothonotary of the county in which all or the major portion of the land involved is located, together with the report of the Division of Watershed Stewardship and such other relevant information as the district deems appropriate.
- (b) Where the county soil conservation district determines that the formation of the proposed tax ditch is not practicable and feasible or is not in the interest of the public health, safety and welfare, it shall so notify all of the petitioners involved, and a new petition for the formation of that tax ditch may not be refiled for a period of 1 year from the date of said notice.

48 Del. Laws, c. 151, § 13; 7 Del. C. 1953, § 4125; 50 Del. Laws, c. 276, § 8; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, § 16; 77 Del. Laws, c. 430, § 13.;

## § 4126 Determinations to be made by board of ditch commissioners.

(a) Upon the filing of a petition for the formation of a tax ditch in the office of the prothonotary of a county, the board of ditch commissioners of such county, acting as officers of the Court, shall, at the direction of the resident judge thereof, go upon the lands that may be included in the tax ditch and determine the approximate sizes, grades and locations of the required drainage ditches; the approximate sizes, locations and specifications for required dikes, levees, structures and other necessary works of improvement; the location of public roads and railroads, and public utility installations within the proposed tax ditch; the exterior boundaries of the tax ditch; the approximate boundaries of each farm, parcel or piece of land within the tax ditch; the location and extent of needed permanent rights-of-way; the estimated total cost of all required tax ditch works of improvement; the damages to lands, if any, which will result from the construction of the tax ditch; and an equitable basis, considering relative benefits to each landowner, for the distribution of costs. The board of ditch commissioners shall obtain from the county soil conservation district such assistance and information as is needed in making the required determinations.

- (b) When all of the landowners involved, with the approval of the board of ditch commissioners and with the cooperation of the county soil conservation district and the Division of Watershed Stewardship:
  - (1) Jointly make the determinations regularly assigned to the board of ditch commissioners in subsection (a) of this section and in § 4127 of this title, and
  - (2) Prepare the assessment list required by § 4129 of this title, and
  - (3) Supply any additional data necessary to complete the report of the board of ditch commissioners required by § 4130 of this title, and
  - (4) Personally sign a statement to the effect that they approve the formation of the tax ditch.

the board of ditch commissioners shall prepare their report from said determinations and such data without going upon the lands involved.

<u>48 Del. Laws, c. 151, § 16;</u> 7 Del. C. 1953, § 4126; <u>50 Del. Laws, c. 276, § 9;</u> <u>59 Del. Laws, c. 560, § 2;</u> <u>70 Del. Laws, c. 246, §§ 17-22;</u> <u>77 Del. Laws, c. 430, § 14.;</u>

# § 4127 Existing works of improvement; compensation for work done thereon.

The board of ditch commissioners may deem adequate any works of improvement already constructed, including but not limited to ditches and structures and may incorporate these in the tax ditch, and may allow a fair compensation to landowners for work previously done by them on such works of improvement.

48 Del. Laws, c. 151, § 17; 7 Del. C. 1953, § 4127; 50 Del. Laws, c. 276, § 10.;

#### § 4128 Factors in determination of cost.

(a) In determining the total cost of the proposed tax ditch works of improvement, the board of ditch commissioners shall include, among other things, the estimated costs of construction, the estimated cost of forming the tax ditch, the amount of damages, if any, awarded to landowners and the amount of compensation, if any, to be paid to landowners for works of improvement previously constructed and deemed adequate under § 4127 of this title.

(b) The estimated cost of interest which will develop if the tax ditch borrows money to finance construction and the estimated cost of annual maintenance shall not be included in the total cost of the proposed tax ditch works of improvement.

48 Del. Laws, c. 151, § 18; 7 Del. C. 1953, § 4128; 50 Del. Laws, c. 276, § 11.;

#### § 4129 Assessment list.

After determining the basis for distribution of costs among the landowners, the board of ditch commissioners shall prepare an assessment list which shall show the names of all owners of property, wholly or partly within the watershed of the proposed tax ditch, together with addresses and descriptions of those properties as currently recorded by the board of assessment of the county. The list shall also show, for each property, that portion, expressed in acres, which is within the watershed or drainage area. The cost-sharing or assessment base, expressed in dollars, for each of said properties shall also be shown. The sum of the individual property assessment bases shall be termed the total assessment base which in all cases shall be equal to or greater than the total cost of the proposed tax ditch works of improvement. The assessment list, as modified by the ditch order, described in § 4137 of this title, shall be the basis for all taxes levied under this chapter.

48 Del. Laws, c. 151, § 19; 7 Del. C. 1953, § 4129; 50 Del. Laws, c. 276, § 12.;

## § 4130 Proposed report of board of ditch commissioners.

The board of ditch commissioners, with the assistance of the Division of Watershed Stewardship, shall prepare a proposed report containing the following determinations and information:

- (1) The name of the proposed tax ditch;
- (2) The hundred and the county in which the proposed tax ditch is situated;
- (3) A map, drawing or aerial photograph, to a suitable scale, on which the following is shown:
  - a. The main ditch, all prongs, all subprongs and other divisions of the proposed tax ditch;

- b. All dikes, levees, structures and other works of improvement of the proposed tax ditch;
- c. All railroads, public highways and all public utility installations near the points where such reach, cross or pass close to any part of the proposed tax ditch;
- d. The exterior boundaries of the tax ditch;
- e. The approximate boundaries of each farm, parcel or piece of land within the proposed tax ditch, together with the identification of each farm, parcel or piece of land by name or code number;
- f. The location and extent of rights-of-way, including overhead and underground clearances where necessary, assigned to the tax ditch for construction and maintenance operations;
- (4) The estimated total cost of the proposed tax ditch works of improvement;
- (5) The assessment list required under § 4129 of this title;
- (6) Factors which influenced the determination of relative benefits and the basis for distribution of costs among the landowners, and other pertinent information;
- (7) The names of all landowners awarded damages or to be paid compensation for works of improvement previously constructed and deemed adequate under § 4127 of this title; and the amount of damages or compensation to which each such landowner is entitled; and factors which influenced the determination of the damages awarded and compensation to be paid;
- (8) The number of ditch managers, not less than 2 nor more than 5, required to conduct the business affairs of the proposed tax ditch;
- (9) In the case of a previously existent drainage organization, the amount of present assets to be turned over to, or liabilities to be assumed by the proposed tax ditch.

48 Del. Laws, c. 151, § 20; 7 Del. C. 1953, § 4130; 50 Del. Laws, c. 276, § 13; 56 Del. Laws, c. 312, § 3; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, §§ 23, 24; 77 Del. Laws, c. 430, § 15.;

## § 4131 Notice of hearing on establishment of tax ditch.

Upon completion of the proposed report required by § 4130 of this title, the board of ditch commissioners shall notify all owners of property, wholly or partly within the watershed of the proposed tax ditch, of a hearing concerning the establishment of said tax ditch to be held in the county in which all or the major portion of the lands involved is located. The notice shall be mailed by 1st-class mail at least 20 days prior to the hearing and shall designate the time and place thereof. It shall also state that the purpose of the hearing is to consider the formation of a tax ditch which may affect the lands of the person notified and to hold a referendum among the affected landowners concerning the establishment of a tax ditch. In addition, the notice shall state the place where a copy of the above proposed report of the board of ditch commissioners will be open to inspection for at least 5 days, excepting Saturday and Sunday, prior to the hearing date.

48 Del. Laws, c. 151, § 21; 7 Del. C. 1953, § 4131; 50 Del. Laws, c. 276, § 14; 70 Del. Laws, c. 246, §§ 25-27.;

# § 4132 Hearing; adoption of proposed report; right to adjourn hearing; referendum.

At the time and place designated in the notice, the board of ditch commissioners, with the assistance of the Division of Watershed Stewardship, shall hold a hearing at which all persons interested shall have an opportunity to express their opinions on and objections to the proposed report required by § 4130 of this title. The board of ditch commissioners shall make such changes in the proposed report as it deems warranted from evidence presented at the hearing, and shall then adopt the report and declare it final. If, however, as a result of the hearing, the board of ditch commissioners deems it advisable, it may adjourn the hearing in order to enable it to reexamine and modify its report in the light of the opinions and objections expressed at the hearing. The hearing may be adjourned to a fixed future date with no additional notification required or adjourned to an unspecified future date for which the notification and display procedures of § 4131 of this title will again apply. At the conclusion of the hearing, a referendum shall be held under the supervision of the board of

ditch commissioners and the Division of Watershed Stewardship. The referendum shall afford each landowner the opportunity to cast a ballot for or against the formation of the proposed tax ditch in accordance with the final report of the board of ditch commissioners. Each landowner shall be entitled to the same number of votes as the number of dollars shown as the assessment base for the lands by the board of ditch commissioners.

48 Del. Laws, c. 151, § 22; 7 Del. C. 1953, § 4132; 50 Del. Laws, c. 276, § 15; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, §§ 28, 29; 77 Del. Laws, c. 430, § 16.;

## § 4133 Contents of report; filing.

After holding the hearing and supervising the referendum provided for in § 4132 of this title, the board of ditch commissioners shall file the original and 2 copies of its final report in the office of the prothonotary of the county in which all or the major portion of the lands involved is located, and shall attach to the report a certificate stating the results of the referendum and the place where and the time when it was held. The board of ditch commissioners shall also prepare and attach to the report a statement showing:

- (1) Whether the board of ditch commissioners has fully discharged the duties assigned to it as prescribed by law;
- (2) Whether the proposed tax ditch is practicable and feasible and in the interest of the public health, safety and welfare;
- (3) Whether in laying out the tax ditch, the lands of every landowner assessed are directly or indirectly affected by some part of the proposed tax ditch;
- (4) Any objections made to the report of the board of ditch commissioners which did not warrant further changes in the report and the reasons therefor;
- (5) Whether, in the opinion of the board of ditch commissioners, the benefits that will result from the construction of the proposed tax ditch will exceed the total cost;
- (6) Any other recommendations or information which the board of ditch commissioners deems pertinent.

48 Del. Laws, c. 151, § 23; 7 Del. C. 1953, § 4133; 50 Del. Laws, c. 276, § 16; 70 Del. Laws, c. 246, §§ 30, 31.;

## § 4134 Signing of commissioners' report; dissent.

The report of the board of ditch commissioners, including the statement required by § 4133 of this title, shall be signed by all of the commissioners concurring therein. Any ditch commissioner who dissents therefrom shall attach to the report the reasons for his or her dissent.

48 Del. Laws, c. 151, § 24; 7 Del. C. 1953, § 4134; 70 Del. Laws, c. 186, § 1.;

## § 4135 Waiving of commissioners' hearing and referendum.

In those cases, when all of the landowners involved, indicate by signed statement that they are familiar with the report of the board of ditch commissioners and that they favor the formation of the tax ditch, the board of ditch commissioners shall not hold a hearing and referendum, pursuant to § 4132 of this title, nor shall they give notice thereof as pursuant to § 4131 of this title, but they shall prepare the statement required and file their report, pursuant to § 4133 of this title, without a certificate of referendum.

48 Del. Laws, c. 151, § 25; 7 Del. C. 1953, § 4135; 50 Del. Laws, c. 276, § 17.;

#### § 4136 Action by Superior Court; notice of final hearing.

- (a) After the report and statement of the board of ditch commissioners have been filed in the office of the prothonotary of the appropriate county, they shall be carefully reviewed by the Superior Court of the county.
- (b) If the report of a majority of the board of ditch commissioners is opposed to the formation of the proposed tax ditch, or if the certificate stating the results of the referendum shows that a majority of all votes cast were opposed to the formation of the tax ditch, or if such report shows that the total cost of the construction of the tax ditch will exceed the benefits that will result therefrom, then the Superior Court shall issue an order denying the petition for the formation of the tax ditch.

- (c) If the report of a majority of the board of ditch commissioners is in favor of the formation of the proposed tax ditch, and if the statement attached to said report indicates that the total benefits that will result from the tax ditch will exceed the total cost of the proposed tax ditch works of improvement, and if the certificate stating the results of the referendum shows that a majority of all votes cast were in favor of the formation of the tax ditch, then the Superior Court shall set a date for the final hearing on the petition and shall direct the prothonotary to give notice of the hearing by publication in a newspaper of general circulation in each county in which any of the lands involved are located and by posting a written or printed notice on the door of the courthouse of each such county, such publication and posting to be made not less than 15 days before the time of the final hearing. Notice of the final hearing shall also be given to landowners involved by first-class mail. This notice shall be mailed not less than 15 days before the time of the hearing. From the time the report of the board of ditch commissioners is filed in the office of the prothonotary of the appropriate county it shall be open to inspection by any interested person.
- (d) In those cases, when all of the landowners involved have indicated by signed statement that they are familiar with the report of the board of ditch commissioners and that they favor the formation of the tax ditch, and if the report of a majority of the board of ditch commissioners is in favor of the formation of the proposed tax ditch, and if the statement attached to the report indicates that the total benefits that will result from the tax ditch will exceed the total cost of the proposed tax ditch works of improvement, then the Superior Court shall not hold a final hearing, nor give notice thereof, but shall confirm the report and issue an order granting the petition for the formation of the proposed tax ditch, the order to become effective immediately, and to be known as the ditch order. The confirmed report shall be considered a part of the ditch order.

48 Del. Laws, c. 151, § 26; 7 Del. C. 1953, § 4136; 50 Del. Laws, c. 276, § 18; 67 Del. Laws, c. 188, § 1; 70 Del. Laws, c. 246, §§ 32, 33.;

## § 4137 Final hearing; ditch order.

At least 10 days prior to the date set for the final hearing before the Superior Court, any interested person may file an objection in writing to the report of the board of ditch commissioners. The Superior Court shall review the report of the board of ditch commissioners and any objections filed thereto, and make, in consultation with the ditch

commissioners, such changes as are necessary to render substantial and equal justice to all interested persons. Damages to any 1 landowner shall not be grounds for denying the petition, but may be used to adjust the assessment base of that property or the damages to be paid to that landowner and shall be considered as part of the total cost of the proposed tax ditch. If the conditions set forth in § 4136(c) of this title, still exist after the objections have been considered and the necessary changes have been made in the report of the board of ditch commissioners, the Superior Court shall confirm the report and issue an order granting the petition for the formation of the proposed tax ditch, said order to be known as the ditch order. The confirmed report shall be considered a part of said ditch order. If no objections are presented at the final hearing before the Superior Court the ditch order shall become effective when issued.

48 Del. Laws, c. 151, § 27; 7 Del. C. 1953, § 4137; 50 Del. Laws, c. 276, § 19; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, §§ 34-36.;

## § 4138 Right to jury trial; procedure.

When objections to the report of the board of ditch commissioners are filed in writing with the Superior Court and when the party filing feels aggrieved by the report of the board of ditch commissioners, such party may apply to the Superior Court, within 30 days after the issuance of the ditch order, for an order in the nature of a writ of inquiry to ascertain by the verdict of a jury at the bar of the Court, the full and true value of the relative benefits, damages, injury or loss which will result to the lands of such person from the construction of the proposed tax ditch.

48 Del. Laws, c. 151, § 28; 7 Del. C. 1953, § 4138; 50 Del. Laws, c. 276, § 20.;

## § 4139 Defense of contested ditch orders; Attorney General.

If the ditch order is contested, the board of ditch commissioners shall defend the order, and in conducting its defense, the board shall be represented by the Attorney General of the State.

48 Del. Laws, c. 151, § 29; 7 Del. C. 1953, § 4139.;

§ 4140 Notice of final action on ditch order.

When the ditch order has become effective because no objection has been filed, or because the right to appeal therefrom has expired, the prothonotary shall notify the Division of Watershed Stewardship and the appropriate county soil conservation district accordingly, and shall forward 2 certified copies of the ditch order to the Division of Watershed Stewardship.

48 Del. Laws, c. 151, § 30; 7 Del. C. 1953, § 4140; 50 Del. Laws, c. 276, § 21; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, § 17.;

#### § 4141 Permanent court record.

The ditch order, together with any amendment thereto, shall be a permanent court record and shall be kept in the office of the prothonotary of the county wherein it was issued and copies of the ditch order shall be recorded in a Tax Ditch Volume in the office of the recorder of deeds in the county where the tax ditch is located. A filing fee for all new tax ditch orders shall be charged by the office of the recorder of deeds after the effective date of this legislation. It shall not be removed from that office except in cases where an emergency so requires. The prothonotary shall make such docket entries of proceedings as directed by rule of court.

48 Del. Laws, c. 151, § 31; 7 Del. C. 1953, § 4141; 50 Del. Laws, c. 276, § 22; 74 Del. Laws, c. 386, § 1.;

## § 4142 Employment of private engineer by landowners.

If the board of supervisors of the county soil conservation district in which all or the major portion of the area involved is located determines that the formation of a tax ditch is practicable and feasible and is in the interest of the public health, safety and welfare, the interested landowner or owners may at any time thereafter employ at their expense engineering personnel of their selection to assist the Division of Watershed Stewardship.

48 Del. Laws, c. 151, § 32; 7 Del. C. 1953, § 4142; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, § 37; 77 Del. Laws, c. 430, § 18.;

#### § 4143 Exclusive procedure for determination of damages.

The determination, assessment or award of damages or other compensation to be paid to any landowner in connection with the formation of a tax ditch shall be made under and in accordance with this chapter. Chapter 61 of Title 10 shall not be applicable to proceedings to organize a tax ditch under this chapter.

7 Del. C. 1953, § 4143.;

# Subchapter IV. Powers of Tax Ditch

### § 4151 Meeting to organize tax ditch; notice.

- (a) The Division of Watershed Stewardship, at its earliest convenience after the ditch order becomes final, shall call a meeting of the taxables for the purpose of organizing the proposed tax ditch, including the election of ditch managers, as called for in the ditch order, and a secretary-treasurer; the formulation of a plan for constructing, financing, administering and maintaining the proposed tax ditch; and for levying taxes to cover the costs of construction and maintenance.
- (b) The Division of Watershed Stewardship shall send a notice to every taxable, by first-class mail to that landowner's address as currently recorded by the board of assessment of the county, at least 10 days prior to that meeting, stating the time, place and object of the meeting.
- (c) A notice of the meeting shall be sent to the chairperson of the board of supervisors of the county soil conservation district.

48 Del. Laws, c. 151, § 33; 7 Del. C. 1953, § 4151; 50 Del. Laws, c. 276, § 23; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 186, § 1; 77 Del. Laws, c. 430, § 19.;

§ 4152 Distribution of ditch order and this chapter; filing of assessment list.

- (a) At the organization meeting of the tax ditch, the Division of Watershed Stewardship shall deliver to the managers, when elected, a certified copy of the ditch order and a copy of this chapter, together with all effective amendments thereto.
- (b) The Division of Watershed Stewardship shall deliver a copy of the assessment list prepared under § 4129 of this title, as modified by the ditch order, to the board of assessment of the county, making such changes in the names of the owners thereon as are warranted by transfers, to new owners, of lands assessed.

48 Del. Laws, c. 151, § 34; 7 Del. C. 1953, § 4152; 50 Del. Laws, c. 276, § 24; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, § 38; 77 Del. Laws, c. 430, § 20.;

## § 4153 Representation at meeting.

In addition to the Division of Watershed Stewardship, the county soil conservation district may be represented at the organization meeting by 1 member of the board of district supervisors.

48 Del. Laws, c. 151, § 35; 7 Del. C. 1953, § 4153; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, § 21.;

## § 4154 Voting rights.

At all meetings, each landowner shall be entitled to the same number of votes as the number of dollars assessed against the land of such owner in the ditch order. In the event that any lands are held by tenants in common or joint tenants, each such tenant in common or joint tenant shall be entitled to the same number of votes as his or her fractional share of the total number of dollars assessed against said lands. In the case of lands held by a husband and wife as tenants by the entirety, either the husband or wife may vote all the dollars assessed against their lands.

48 Del. Laws, c. 151, § 36; 7 Del. C. 1953, § 4154; 70 Del. Laws, c. 186, § 1.;

## § 4155 Voting by proxy.

Any person entitled to vote pursuant to § 4154 of this title may authorize another landowner within the tax ditch to cast his or her votes in that person's stead by executing a proxy. The proxy shall be signed, dated and notarized.

48 Del. Laws, c. 151, § 37; 7 Del. C. 1953, § 4155; 70 Del. Laws, c. 186, § 1.;

## § 4156 Election of ditch managers and a secretary-treasurer; terms of office; vacancies.

- (a) At the first meeting the taxables shall elect from their group the number of ditch managers specified in the ditch order, and a secretary-treasurer.
- (b) The term of office of each ditch manager and of the secretary-treasurer shall be 1 year. If the ditch managers and secretary-treasurer first elected are elected prior to July 1 of any year, the time elapsing between said election and the first annual January meeting provided for in § 4159 of this title shall be deemed to constitute the first year of their terms of office. However, if the ditch managers and secretary-treasurer first elected are elected on or after July 1 of any year, their terms of office shall not be deemed to begin until the said first annual January meeting, although they shall assume the duties and responsibilities of their respective offices immediately upon election.
- (c) In the event that any tax ditch officer dies, resigns, ceases to be 1 of the taxables, or is removed from office, the remaining ditch officers shall within 60 days, appoint a taxable to serve the remainder of the term of such officer. However, except in the case of death or removal from office, each tax ditch officer shall continue to serve until a successor has been appointed.

48 Del. Laws, c. 151, § 38; 7 Del. C. 1953, § 4156; 50 Del. Laws, c. 276, § 25; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, § 39.;

#### § 4157 Chairperson of ditch managers; duties.

Immediately after they are elected, the ditch managers shall designate 1 of their number to serve as chairperson. The chairperson shall call meetings of the ditch managers and taxables and shall preside thereat.

48 Del. Laws, c. 151, § 39; 7 Del. C. 1953, § 4157; 70 Del. Laws, c. 186, § 1.;

### § 4158 Compensation of ditch managers and secretary-treasurer.

Tax ditch managers and the secretary-treasurer may be entitled to receive compensation at a rate to be determined by a majority of the eligible votes of those taxables present at the first meeting provided for in § 4159 of this title. The rate of compensation for the tax ditch managers and secretary-treasurer may be revised only at a regular annual meeting of the taxables.

48 Del. Laws, c. 151, § 40; 7 Del. C. 1953, § 4158.;

## § 4159 Annual and other meetings of taxables; notice of meetings.

At the first meeting the taxables shall set a date for the regular annual meeting. This date may not be changed except by action of a majority of the taxables present at a regular annual meeting. The chairperson of the ditch managers may call special meetings at such times as the circumstances warrant. At least 10 days' notice of all meetings shall be given by the ditch managers using either of the following methods:

- (1) By publishing in a newspaper of general circulation in the area of a tax ditch, and by posting at 5 conspicuous places in or near the area of said tax ditch, a notice stating the time, place and object of the meeting; or
- (2) By mailing to each affected taxable at the address currently shown on the records of the board of assessment of the county, a notice stating the time, place and object of the meeting.

48 Del. Laws, c. 151, § 41; 7 Del. C. 1953, § 4159; 50 Del. Laws, c. 276, § 26; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, § 40.;

#### § 4160 Meetings of ditch managers; quorum.

The ditch managers shall meet as often as necessary to properly conduct the business of the tax ditch. At such meetings a majority of the ditch managers shall constitute a quorum and the concurrence of a majority in any matter within their duties shall be required for its determination.

48 Del. Laws, c. 151, § 42; 7 Del. C. 1953, § 4160.;

# § 4161 Powers of a tax ditch.

A tax ditch organized under this chapter, being a governmental subdivision of this State and a public body, corporate and politic may exercise public powers and, in addition to such other powers as usually pertain to corporations, may:

- (1) Levy taxes;
- (2) Sue and be sued in the name of the tax ditch, and suits against the tax ditch shall be governed by subchapter I of Chapter 40 of Title 10;
- (3) Make and execute contracts and other instruments necessary or convenient to the exercise of its powers;
- (4) Borrow money for the purpose of constructing, maintaining and administering the tax ditch:
- (5) Acquire, by purchase, exchange, lease, gift, grant, bequest, devise or otherwise, any property, real or personal, or any rights or interests therein;
- (6) Cooperate, or enter into agreements with the state or federal governments or any agency or subdivision thereof;
- (7) Exercise the power of eminent domain, in accordance with the condemnation procedure prescribed in Chapter 61 of Title 10, with respect to lands outside the boundaries of the tax ditch which are needed for right-of-way or outlet purposes;
- (8) Accept contributions from landowners assessed in the tax ditch, and disburse such funds for the purposes of performing certain operations, such as, but not limited to, additional clearing or the installation of structures, which operations are authorized in the tax ditch order, but which are not included in the original estimated construction requirements and costs;
- (9) Call upon the Division of Watershed Stewardship for assistance with administrative and operations problems of the tax ditch;

- (10) After initial construction has been completed, and with the prior approval of the Department of Natural Resources and Environmental Control, and with written consent of more than one half of the landowners involved, owning more than 1/2 of the drainage area assessed:
  - a. Transfer to the Department of Natural Resources and Environmental Control:
    - 1. The responsibility for certain specified responsibilities for maintenance of the tax ditch;
    - 2. All rights-of-way assigned by court order to the tax ditch for construction and maintenance operations;
    - 3. Any and all powers possessed by the tax ditch, or the managers thereof, related to obstruction of, or damage to said tax ditch, or to the addition of territory to a tax ditch, or to the alteration of a tax ditch.
  - b. Discontinue annual and other meetings of taxables and of tax ditch managers, except that when maintenance has been transferred to the Department of Natural Resources and Environmental Control, that body shall call a meeting of the taxables upon a written request from at least 3 of such taxables.
  - c. Discontinue tax ditch managers and secretary-treasurer as long as no meetings are being held.

48 Del. Laws, c. 151, § 43; 7 Del. C. 1953, § 4161; 50 Del. Laws, c. 276, § 27; 55 Del. Laws, c. 461; 57 Del. Laws, c. 739, §§ 185-187; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 246, § 41; 77 Del. Laws, c. 430, § 22.;

#### § 4162 Duties of ditch managers.

In addition to the duties specified in other sections of this chapter, the ditch managers shall:

- (1) Determine from the taxables the desired program of operations;
- (2) Determine the amount of taxes to be levied to carry out such desired program;

- (3) Secure specific authority for borrowing money, in the name of the tax ditch, by a majority vote of the taxables present at a duly called meeting of the tax ditch;
- (4) At the first meeting, or within 30 days thereafter, prepare, with the assistance of the Division of Watershed Stewardship, a comprehensive plan for carrying out the desired program, which plan shall include provisions for levying taxes and for financing the program;
- (5) Execute warrants, with the assistance of the Division of Watershed Stewardship, to the receiver of taxes and county treasurer authorizing and requesting the collection of all tax ditch taxes other than maintenance taxes;
- (6) Execute a warrant, with the assistance of the Division of Watershed Stewardship, to the receiver of taxes and county treasurer authorizing and requesting the annual collection of a tax in the amount of 2 percent of the total assessment base, or in the amount of 2 percent of the total benefits for tax ditches previously formed under the original provisions of this chapter, said warrant to be marked plainly as being for annual maintenance taxes, and to be issued simultaneously with the issuance of the first warrant for the collection of taxes for construction purposes;
- (7) Make a report, at the annual meeting, of their activities during the year preceding such annual meeting;
- (8) Provide for construction work on the tax ditch;
- (9) Provide for adequate maintenance of the tax ditch.

48 Del. Laws, c. 151, § 47; 7 Del. C. 1953, § 4162; 50 Del. Laws, c. 276, § 28; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, § 23.;

#### § 4163 Duties of secretary-treasurer of tax ditch.

In addition to any powers and duties set forth elsewhere in this chapter, the secretary-treasurer of the tax ditch shall:

(1) Keep accurate minutes of all meetings of the ditch managers and taxables, and such minutes shall be a part of the permanent records of the tax ditch;

- (2) Prepare a complete financial statement at the end of each calendar year, including therein an itemized report of all funds received, all funds expended, all funds due from taxes not yet collected and all sums due and owing by the tax ditch, and this statement and the records of the secretary-treasurer shall be audited annually by 2 qualified persons and shall become part of the permanent records of the tax ditch;
- (3) Provide for the safekeeping of any funds of the tax ditch which are placed in his or her custody;
- (4) Attend all meetings of the ditch managers and taxables.

48 Del. Laws, c. 151, § 52; 7 Del. C. 1953, § 4163; 70 Del. Laws, c. 186, § 1.;

#### § 4164 Bond of secretary-treasurer.

The secretary-treasurer shall, before assuming the duties of his or her office and within 15 days after his or her election, furnish a bond in favor of the tax ditch, in an amount satisfactory to the ditch managers and with a surety to be approved by the ditch managers, conditioned for the faithful performance of his or her duties and for the payment to his or her successor of all tax ditch funds. If any person elected secretary-treasurer neglects or refuses to give bond as aforesaid within the time specified, his or her right to hold such office shall be terminated, and the ditch managers shall call a special meeting of the taxables to elect a new secretary-treasurer who shall give bond and security as provided in this section.

48 Del. Laws, c. 151, § 53; 7 Del. C. 1953, § 4164; 58 Del. Laws, c. 240, § 4; 70 Del. Laws, c. 186, § 1.;

#### § 4165 Failure of ditch officer to perform duties; remedy; removal.

If any officer of a tax ditch fails to perform the duties imposed on him or her by this chapter, any taxable may petition the Superior Court from which the ditch order was issued and request an order directing said officer to carry out his or her duties, and upon his or her failure to comply with the order within the time stated therein, the taxable may further petition the Superior Court for the removal of the officer.

48 Del. Laws, c. 151, § 63; 7 Del. C. 1953, § 4165; 70 Del. Laws, c. 186, § 1.;

## § 4166 Signatures on instruments issued by tax ditch.

Any note, bond, warrant or other instrument issued by a tax ditch pursuant to this chapter shall be signed by the chairperson of the ditch managers and the chairperson's signature shall be attested by the secretary-treasurer of the tax ditch.

48 Del. Laws, c. 151, § 44; 7 Del. C. 1953, § 4166; 70 Del. Laws, c. 186, § 1.;

#### § 4167 Liability of tax ditch officers.

No ditch manager or other officer of a tax ditch shall be held personally liable for the obligations of the tax ditch. The tax ditch shall indemnify the ditch managers or other officers in accordance with § 4003 of Title 10 for all tort claims.

48 Del. Laws, c. 151, § 45; 7 Del. C. 1953, § 4167; 70 Del. Laws, c. 246, § 42.;

## § 4168 Limitation on borrowing power of tax ditch.

A tax ditch may borrow money pursuant to this chapter with the consent of a majority of the votes cast at a meeting duly called under § 4159 of this title. No tax ditch shall borrow money in excess of 90 percent of the total assessment base established by the ditch order.

48 Del. Laws, c. 151, § 46; 7 Del. C. 1953, § 4168; 50 Del. Laws, c. 276, § 29.;

## **Subchapter V. Taxation**

# § 4171 Duties of board of assessment; assessment book; assistance by Division of Watershed Stewardship.

(a) For tax ditches formed under this chapter, the board of assessment of the county shall transcribe the information shown on the assessment list delivered to it pursuant to § 4162(4) of this title into a special assessment book and it shall keep the same as part of the permanent records of its office. It shall also change the name of the owner shown therein from time to time as such changes are warranted by transfers of the lands assessed, to new owners.

(b) The Division of Watershed Stewardship shall assist the various boards of assessment of all 3 counties, upon request, to make such changes in their special ditch assessment books as are warranted by transfers of properties listed therein.

48 Del. Laws, c. 151, § 48; 7 Del. C. 1953, § 4171; 49 Del. Laws, c. 220, § 2; 50 Del. Laws, c. 276, § 30; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, §§ 24, 25.;

## § 4172 Method of determining tax.

In determining the amount of any taxes to be levied against each owner's lands under this chapter, the ditch managers shall determine the same in accordance with the ratio which exists between the assessment base for each property and the total assessment base for the tax ditch.

48 Del. Laws, c. 151, § 49; 7 Del. C. 1953, § 4172; 50 Del. Laws, c. 276, § 31.;

## § 4173 Warrants by ditch companies for collection of taxes.

Each ditch company organized under the laws in effect prior to June 1, 1951, in each year after its assessment has been made and its tax rate fixed, shall execute its warrant with a duplicate of the assessment list to the receiver of taxes and county treasurer, which warrant shall be delivered not later than May 1 in each year.

43 Del. Laws, c. 219, § 1; 7 Del. C. 1953, § 4173.;

#### § 4174 Warrants by tax ditches for collection of taxes.

- (a) For tax ditches formed under this chapter, warrants authorizing and requesting the collection of ditch taxes executed to the receiver of taxes and county treasurer shall be signed by the chairpersons of the ditch managers and the secretary-treasurer or the tax ditch and shall contain the following information:
  - (1) The name of tax ditch;
  - (2) The location by county and hundred;
  - (3) The date said warrant is delivered to the receiver of taxes and county treasurer;

- (4) The date that tax ditch assessment list was filed with county assessor;
- (5) Total of that assessment list;
- (6) Tax rate based on that assessment list;
- (7) Total tax to be collected;
- (8) Method of payment, if by installments;
- (9) Statement as to whether the warrant is for construction, special or maintenance taxes;
- (10) Amount and terms of loans, if any, secured by said tax warrant;
- (11) Person to be paid directly by receiver of taxes and county treasurer and amounts to be paid to him or her.
- (b) When a tax ditch includes 2 or more counties, separate tax warrants shall be executed by the ditch managers to each receiver of taxes and county treasurer thereof.

48 Del. Laws, c. 151, § 50; 7 Del. C. 1953, § 4174; 70 Del. Laws, c. 186, § 1.;

#### § 4175 Collection and disposition of taxes levied by ditch company.

All taxes levied by ditch companies organized under the laws in effect prior to June 1, 1951, shall be collected by the receiver of taxes and county treasurer in the county wherein the district of such ditch company is situated, within a period of 90 days from the date of the warrant referred to in § 4173 of this title, in the same manner as provided by law for the collection of taxes for other purposes. The money collected, with respect to each ditch company, shall be deposited by the receiver of taxes and county treasurer in a bank in 1 or more accounts as the receiver of taxes and county treasurer shall determine. But records shall be kept by the receiver of taxes and county treasurer shall keep records which list separately each ditch company and each deposit made by each ditch company. The moneys so collected and deposited shall be withdrawn from the accounts only upon warrants drawn by the proper officer of the respective ditch companies.

<u>43 Del. Laws, c. 219, § 1;</u> 7 Del. C. 1953, § 4175; <u>50 Del. Laws, c. 78, § 1;</u> <u>59 Del. Laws, c. 39, §§ 1, 2;</u> 70 Del. Laws, c. 186, § 1.;

## § 4176 Duties of receiver of taxes and county treasurer.

All taxes levied by any tax ditch organized under this chapter shall be collected by the receiver of taxes and county treasurer in the county or counties wherein the lands taxed are located. The receiver of taxes and county treasurer shall accept tax warrants in proper form from such tax ditches, shall refer to tax ditch assessment lists on file with the board of assessment of the county and shall collect such taxes warranted annually, pursuant to the terms of the warrants in the same manner as provided by law for the collection of county taxes, and money so collected shall be paid during the months of November, January and July to the receiver designated in the tax warrants. Warrants received not later than May 1 of each year, by the receiver of taxes and county treasurer, shall be processed to be collected during that same year. Tax warrants marked plainly as being for annual maintenance taxes shall be filed by the receiver of taxes and county treasurer in a special binder and the same shall be maintained as part of the permanent records of that office. Such annual maintenance taxes shall be deemed to have been levied by the tax ditch as of April 30 of each year, except the year in which the original or a revised maintenance tax warrant is delivered to the receiver of taxes and county treasurer, in which case the levy shall be effective from and after the date of the delivery of such warrant. Annual maintenance taxes, once warranted, shall be collected yearly by the receiver of taxes and county treasurer, except that an annual maintenance tax shall not be collected during any tax year when another warrant, whether for construction taxes or special taxes, for an identical portion of the tax ditch is in effect and is being collected. The receiver of taxes and county treasurer shall accept original tax warrants for annual maintenance taxes signed by the chairperson of the ditch managers and attested by the secretary-treasurer of the tax ditch. Such warrants may not be withdrawn and may not be revised except with the consent of the county soil conservation district, pursuant to § 4181 of this title.

48 Del. Laws, c. 151, § 51; 7 Del. C. 1953, § 4176; 50 Del. Laws, c. 276, § 32; 65 Del. Laws, c. 307, § 1; 70 Del. Laws, c. 186, § 1.;

## § 4177 Installment payment of taxes for construction; lien; amount of first installment.

(a) The ditch managers may order the tax levied for the cost of construction to be paid in annual installments and shall designate the method of payment on the tax warrant when it is forwarded to the appropriate receiver of taxes and county treasurer.

(b) In the event that the ditch managers order the tax levied for the cost of construction to be paid in annual installments, the entire tax shall, nevertheless, constitute a present lien on the lands against which it is levied, and the amount of the first installment shall not be less than the sum of all payments for damages and compensation as set forth in the ditch order, plus the costs and expenses incurred in the formation of a tax ditch.

48 Del. Laws, c. 151, § 54; 7 Del. C. 1953, § 4177.;

## § 4178 Taxes as security for loans; notation on tax warrant.

A tax ditch may secure the payment of any loan made to it by entering on the tax warrant provided for in § 4162(5) of this title, a statement setting forth the fact that the taxes shown on the tax warrants have been pledged to secure the payment of a certain designated loan and, if a loan is so secured, by reciting the amount and terms of the loan and from whom it is being obtained, and by directing the receiver of taxes and county treasurer to pay any such taxes collected by him or her directly to the creditor until the loan is repaid. Such warrant may not be withdrawn and may not be altered or cancelled without the written consent of the creditor until the loan is repaid.

48 Del. Laws, c. 151, § 55; 7 Del. C. 1953, § 4178; 70 Del. Laws, c. 186, § 1.;

#### § 4179 Special tax.

A special tax to raise the funds necessary to carry into effect any of the provisions of this chapter and not otherwise provided for herein, may be levied by the ditch managers in the same manner as provided in this chapter for levying taxes for original construction.

48 Del. Laws, c. 151, § 56; 7 Del. C. 1953, § 4179.;

#### § 4180 Lien of taxes; enforcement.

All taxes levied under this chapter shall constitute a first and paramount lien against the lands to which they apply from and after the date of such levy, subject only to the lien for state and county taxes, which lien may be enforced by sale or otherwise in the same manner as the lien for the county taxes. All such taxes shall be collected by the appropriate receiver of taxes and county treasurer as provided in § 4176 of this title. Penalties for failure to make payment by the due date shall apply to taxes levied under this chapter in the same manner

and amount as in the case of county taxes, and funds so received shall be credited to the tax ditch.

48 Del. Laws, c. 151, § 57; 7 Del. C. 1953, § 4180.;

## § 4181 Adjustment of maintenance tax.

When in the opinion of the ditch managers the amount of the tax levied to defray the cost of annual maintenance is either insufficient or excessive, they may raise or lower the same for the current and succeeding years with the consent of the county soil conservation district, acting upon the advice of the Division of Watershed Stewardship. If the annual maintenance tax is so raised or lowered, it shall be apportioned to each landowner in accordance with § 4172 of this title and a new maintenance tax warrant shall be delivered to the appropriate receiver of taxes and county treasurer.

48 Del. Laws, c. 151, § 58; 7 Del. C. 1953, § 4181; 59 Del. Laws, c. 560, § 2; 77 Del. Laws, c. 430, § 26.;

# § 4182 Limitation on liability of landowner for taxes.

No landowner shall be liable in any manner for any taxes levied by the tax ditch against the lands of another owner.

48 Del. Laws, c. 151, § 59; 7 Del. C. 1953, § 4182.;

## Subchapter VI. General Provisions

#### § 4185 Payment of damages and compensation.

The damages and compensation awarded by the terms of the ditch order shall be paid to the person entitled thereto out of the first funds available to the tax ditch under this chapter, and no construction shall commence until said damages and compensation have been paid.

48 Del. Laws, c. 151, § 60; 7 Del. C. 1953, § 4185.;

§ 4186 Obstruction of or damage to tax ditch; civil and criminal liability.

- (a) If any person wilfully or negligently obstructs or damages any part of a tax ditch, and upon request of the ditch managers fails to remove the obstruction or to repair the damage at the person's own expense, the ditch managers shall see that the obstruction is removed and that the damage is repaired.
- (b) The person so obstructing or damaging the tax ditch shall be liable for all loss or injury caused thereby and the expenses or charges for remedying the same, and said loss or injury, expenses or charges may be sued for and recovered by the ditch managers in the name of the tax ditch before any justice of the peace in the county where the obstruction or damage occurred.
- (c) Whoever wilfully obstructs or damages any part of a tax ditch, as specified in subsection (a) of this section, or wilfully interferes in any way with tax ditch operations as provided for in this chapter or in a ditch order made pursuant to this chapter, shall be fined not more than \$100.
- (d) As of July 17, 2008, if a permanent structure, whether existing or approved for construction, including but not limited to any residential, agricultural, or commercial structure, or any associated permanent accessory structure or septic system, driveway or parking area associated therewith still are found to be within a tax ditch right-of-way; that structure is exempt from the provisions of this chapter as a "legal nonconforming use".

48 Del. Laws, c. 151, § 61; 17 Del. C. 1953, § 4186; 50 Del. Laws, c. 276, § 33; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, § 43; 76 Del. Laws, c. 389, § 2.;

#### § 4187 Right of entry upon lands.

The Division of Watershed Stewardship, engineering personnel hired under § 4142 of this title, the soil conservation district supervisors, the Department of Natural Resources and Environmental Control, the ditch commissioners, the ditch managers, or any of their employees or agents, may enter upon any lands within the tax ditch at all reasonable times in order to carry out the purpose of this chapter.

<u>48 Del. Laws, c. 151, § 62;</u> 7 Del. C. 1953, § 4187; <u>57 Del. Laws, c. 739, § 188;</u> <u>59 Del. Laws, c. 560, § 2;</u> 70 Del. Laws, c. 246, § 44; 77 Del. Laws, c. 430, § 27.;

# § 4188 Addition of territory to a tax ditch.

- (a) Any landowner who desires his or her lands to be included within a tax ditch formed under this chapter, may present a petition for an amendment to the existing ditch order to include such lands, to the Superior Court of the county which issued said ditch order through the board of supervisors of the soil conservation district of the same county, and the procedure shall be substantially the same as method in § 4189(3) of this title, for amending a ditch order, except that, in addition to establishing an assessment base which will be the basis for all future ditch taxes, for each parcel of land being included within the tax ditch, a special assessment, based generally on the approximate total amount of taxes that would have been levied against such parcels of land since the tax ditch was formed, had such lands been within the original boundaries of said tax ditch and other considerations, shall be determined by the board of ditch commissioners and payment thereof prescribed in their report to the Superior Court.
- (b) In those cases when any landowner, directly or indirectly, alters lands to utilize any part of a tax ditch to benefit land which is not within the original boundary of the tax ditch as established in the ditch order and which was not assessed as part of the tax ditch, or which was not assessed to the prong or part of the tax ditch utilized by the alteration, and when the landowner or owners have not secured an amendment to the ditch order in accordance with the procedure set forth in subsection (a) of this section, it shall be assumed that such landowner accepts the liability for payment of a special assessment and costs incurred in processing an amendment to the ditch order, in addition to all future ditch taxes, and it shall be the duty of the ditch managers in the name of the tax ditch to present a petition for an amendment to the existing ditch order to include such lands, in the same manner as set forth in subsection (a) of this section and the procedure shall be the same as outlined in that subsection, except that estimated costs of processing the amendment shall be added to the special assessment which will be established by the board of ditch commissioners.
- (c) In those cases when any landowner desires his or her lands to be included within a tax ditch and when agreement can be reached on the part of the landowner and the tax ditch managers as to the special assessment to be paid and the assessment base to be established as the basis for all future ditch taxes, then method (1) or method (2) of § 4189 of this title may be used to add the additional territory to the tax ditch.

48 Del. Laws, c. 151, § 64; 7 Del. C. 1953, § 4188; 50 Del. Laws, c. 276, § 34; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, § 45.;

#### § 4189 Alteration of tax ditches; amendments to ditch orders.

If it becomes necessary to change any part of a tax ditch, such changes may be made in one of the following ways:

- (1) The desired or required changes, justified in writing and including any necessary maps or drawings, shall be presented by the tax ditch managers to the taxables at a regularly called tax ditch meeting. If a majority vote of the taxables present favors the changes, and providing that such changes do not include any relocations of works of improvement, or of the construction area, or of the maintenance right-of-way on the lands of any owner without the owner's consent, the tax ditch managers shall present 3 copies of their request for the changes, including the written justification and any necessary maps or drawings, and also including the results of the referendum, to the Division of Watershed Stewardship for its approval. Should that approval be given, the change shall be effective at once, and the Division of Watershed Stewardship shall file the original request with supporting papers in the office of the prothonotary of the proper county, and return 1 copy to the tax ditch. Whenever changes are made which affect the tax ditch assessment list, the Division of Watershed Stewardship shall notify the board of assessment of the proper county of such changes.
- (2) a. When all landowners affected consent to changes of any part of a tax ditch, including the assessment list, they shall enter into a written agreement to make such changes and present 3 copies of such agreement, together with any necessary maps or drawings, to the Division of Watershed Stewardship for its approval. Should that approval be given, the change shall be effective at once, and the Division of Watershed Stewardship shall file the original request with supporting papers in the office of the prothonotary of the proper county, and return 1 copy to the tax ditch. Whenever changes are made which affect the tax ditch assessment list, the Division of Watershed Stewardship shall notify the board of assessment of the proper county of such changes.
  - b. The Division of Watershed Stewardship shall be responsible for assuring that any change to a court order to a tax ditch or right-of-way pursuant to this chapter shall be

recorded in the prothonotary's office. The landowner of any property upon which a change to a court order has been made to any tax ditch or right-of-way pursuant to this chapter shall be responsible for assuring that such change is filed with the recorder of deeds in the county or counties where the parcel subject to the right-of-way is located.

- (3) Any landowner within the boundaries of a tax ditch, or the tax ditch managers in the name of said tax ditch, may, at any time, petition for the amendments of the ditch order that created the tax ditch. Such petition shall list the changes that are desired and shall be presented to the Superior Court that issued the tax ditch order through the board of supervisors of the soil conservation district of the same county. That board of supervisors shall require and handle a deposit from the petitioners in accordance with § 4120 of this title, so far as that section is applicable. As soon as the deposit is received, the board of supervisors shall file the petition in the office of the prothonotary of the proper county without further investigation. Upon the filing of a petition for amendments to a ditch order in the office of the prothonotary of a county, the board of ditch commissioners of such county, shall, at the direction of the resident judge thereof, go upon the lands of the tax ditch watershed, if necessary, review the existing ditch order, consider the changes requested and make determinations regarding these. The board of ditch commissioners shall obtain from the county soil conservation district such assistance and information as may be required. The board of ditch commissioners, with the assistance of the Division of Watershed Stewardship, shall prepare a special proposed report in the nature of 1 or more proposed amendments to the existing ditch order, together with any maps or drawings deemed necessary. Upon completion of that report, they shall give notice, and hold a hearing and referendum in accordance with §§ 4131 and 4132 of this title so far as these are applicable. After holding the hearing and supervising the referendum, the board of ditch commissioners shall file the original and 2 copies of its report in the office of the prothonotary of the county in which all the major portion of the tax ditch is located and shall attach to the report a certificate showing the results of the referendum and the place where, and the time when, it was held. The board of ditch commissioners shall also prepare and attach to the report a statement showing:
  - a. The board of ditch commissioners has fully discharged the duties assigned to it as prescribed by law.

- b. Any objections made to the report of the board of ditch commissioners which did not warrant further changes in the report and the reasons therefor.
- c. Any other recommendations or information which the board of ditch commissioners deems advisable including their determination as to whether the petitioners or the tax ditch are liable for the costs of this action.

Action by the Superior Court shall follow §§ 4136, 4137, 4138, 4139, 4140, 4141 of this title so far as these sections are applicable.

48 Del. Laws, c. 151, § 65; 7 Del. C. 1953, § 4189; 50 Del. Laws, c. 276, § 35; 57 Del. Laws, c. 739, § 189; 59 Del. Laws, c. 560, § 2; 70 Del. Laws, c. 186, § 1; 70 Del. Laws, c. 246, §§ 46-50; 76 Del. Laws, c. 389, § 3; 77 Del. Laws, c. 430, § 28.;

#### § 4190 Bridges and culverts.

If any public road crossed by any part of a tax ditch will be benefited so that the public should construct and maintain a bridge or culvert at such crossing, the board of ditch commissioners shall so state in their report and upon establishment of the tax ditch such bridges or culverts shall be constructed and maintained at the public charge from funds provided for that purpose.

48 Del. Laws, c. 151, § 66; 7 Del. C. 1953, § 4190.;

#### § 4191 Ditches near highways.

The Department of Transportation shall maintain the highway drainage system insofar as is possible in such manner as to prevent silt from such system from obstructing any part of a tax ditch. If silt enters from the highway system and obstructs a tax ditch the Department of Transportation shall remove the same within a reasonable time after being given notice of such obstruction by the ditch managers.

48 Del. Laws, c. 151, § 67; 7 Del. C. 1953, § 4191; 60 Del. Laws, c. 503, § 21.;

#### § 4192 Dissolution of tax ditch.

After a duly called meeting of the taxables at which a majority of all eligible votes have been cast in favor of dissolving a tax ditch, created under this chapter, the ditch managers shall prepare a petition requesting such dissolution to the Superior Court through the appropriate county soil conservation district. If the tax ditch has operated for at least 10 years, and if said district is of the opinion that the dissolution of such tax ditch is in the public interest, it shall file the petition therefor, together with the recommendations of said district in the office of the prothonotary of the county in which the original ditch order was issued. After a petition for dissolution has been so filed, the Superior Court shall issue an order dissolving the tax ditch. No such order of dissolution shall be issued unless and until all obligations of the tax ditch have been paid in full and all commitments of the tax ditch have been fulfilled.

48 Del. Laws, c. 151, § 68; 7 Del. C. 1953, § 4192.;

#### § 4193 Ditches in Kent County; transfer by Department of Transportation to tax ditch.

If any landowners in Kent County establish a tax ditch under this chapter, the Department of Transportation shall transfer to the tax ditch all its right, title and interest in and to any existing ditch or ditches, within the boundaries of the new tax ditch, which have previously been transferred to the Department under § 28 of Chapter 105 of the 1935 Revised Code of Delaware, and the Department shall delegate to the new tax ditch all its powers and duties in connection with the existing ditch or ditches.

48 Del. Laws, c. 151, § 70; 7 Del. C. 1953, § 4193; 60 Del. Laws, c. 503, § 21.;

#### § 4194 Appropriations to Department of Natural Resources and Environmental Control.

An appropriation to the Department of Natural Resources and Environmental Control for purposes of planning, designing and constructing tax ditches/public group ditches shall be included in the annual appropriation bill (budget bill) of the General Assembly.

48 Del. Laws, c. 151, § 74; 7 Del. C. 1953, § 4194; <u>57 Del. Laws, c. 739, § 190</u>; <u>67 Del. Laws, c. 359, § 1.</u>;

#### § 4195 Notice of right-of-way, or assessment.

(a) The Department of Natural Resources and Environmental Control shall certify and file with the prothonotary of each county a list of all parcels by county tax parcel numbers and all

owners of said parcels of real property located in that county which are subject to any portion of a right-of-way or assessment as part of a tax ditch created by this chapter. The list shall be in alphabetical order by owner. The Department shall also certify and similarly file a list of any changes of parcel numbers subject to such right-of-way or assessment annually. Additionally, the Department shall certify and similarly file a list of any addition or deletion of a parcel or parcels subject to a right-of-way or assessment immediately upon making any such addition or deletion.

- (b) No later than 180 days after complying with subsection (a) of this section the Department shall certify and file with the prothonotary of each county a list of all parcels by county tax parcel numbers and all owners of said parcels listed in alphabetical order and designating which parcels are subject to a right-of-way and assessment, and which parcels are subject only to an assessment.
- (c) The certified list submitted pursuant to subsection (a) or (b) of this section shall be confirmed by order of the Resident Judge of Superior Court for each county, which order shall:
  - (1) State the name of the tax ditch;
  - (2) State the owner's name or names and that owner's county tax parcel number for each parcel subject to the right-of-way and assessment and each parcel subject to an assessment only; and
  - (3) Direct that the order be recorded in the Office of the Recorder of Deeds in and for that county.
- (d) There shall be no charge or fee to file the list required by subsection (a) of this section.
- (e) There shall be no charge or fee to record the order pursuant to this subsection.

75 Del. Laws, c. 321, § 1.;

## **TITLE 29**

#### **State Government**

#### **Departments of Government**

## CHAPTER 80. Department of Natural Resources and Environmental Control

**Subchapter I. Natural Resources and Environmental Control** 

#### § 8012 Division of Watershed Stewardship.

The Division of Watershed Stewardship is established having powers, duties and functions as follows:

- (1) The Division of Watershed Stewardship shall have the power to perform and shall be responsible for the performance of all of the powers, duties and functions heretofore vested in the Delaware Soil and Water Conservation Commission, pursuant to Chapters 39 and 41 of Title 7.
- (2) The administrative, ministerial, fiscal and clerical functions of the Boards of Ditch Commissioners, set forth in Chapter 41 of Title 7, shall be performed by the Division of Watershed Stewardship. Except as otherwise provided in this subdivision, the membership, remuneration, organization, meetings, powers, duties and functions of the Boards of Ditch Commissioners shall remain as prescribed by Chapter 41 of Title 7.

29 Del. C. 1953, § 8011; <u>57 Del. Laws, c. 302, § 1; 77 Del. Laws, c. 430, § 67.</u>;

## Resource, Conservation & Development Projects

## **FY 2019 Annual Report**

#### Presented to:

#### **Joint Committee on Capital Improvement**

#### Members:

Rep. Debra Heffernan (Co-Chair)
Rep. Edward S. Osienski
Rep. Kimberly Williams
Rep. Gerald L. Brady
Rep. Ronald E. Gray
Rep. Michael Ramone

Sen. David P. Sokola (Chair)
Sen. Darius J. Brown
Sen. Bryan Townsend
Sen. John Walsh
Sen. Colin Bonini
Sen. Brian Pettyjohn

June 13, 2019

Department of Natural Resources and Environmental Control
Division of Watershed Stewardship
Drainage Program

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# Fiscal Year 2019 Annual Report Resource, Conservation, and Development Fund

#### **Background:**

The Resource, Conservation and Development ("RC&D") Fund was originally established by the Twenty-First Century Fund Investments Act of 1995 that resulted from a settlement with the State of New York. The RC&D portion of the Act was created to provide funding to enhance the health of communities by improving watershed and drainage issues statewide. The fund is implemented by a partnership between the Department of Natural Resources and Environmental Control ("DNREC") and Delaware's three Conservation Districts. The New Castle Conservation District takes the lead on projects located in New Castle County. DNREC takes the lead on projects in Kent and Sussex Counties, with assistance from the Kent and Sussex Conservation Districts. This report will provide a review of the work completed in FY 2019 and a look ahead at activities anticipated for FY 2020.

#### **Fund Status:**

Starting with the FY 1996 Bond Bill and continuing through the FY 2009 Bond Bill, over \$62 million was allocated to the fund. There were no new appropriations to the fund between FY 2009 and FY 2016. However, starting in FY 2016, the Joint Committee on Capital Improvements allocated over \$12 million to the fund between FY 2016 and FY 2019. The allocations to the fund are summarized in Table 1. There was not an allocation in FY 2018.

Table 1

	NEW CASTLE	KENT	SUSSEX	TOTAL
	ALLO	CATIONS		
Allocated – FY 1996 – FY 2009	\$ 44,552,468	\$ 6,503,822	\$ 11,311,984	\$ 62,368,275
Allocated FY 2016	\$ 1,350,458	\$ 427,730	\$ 1,221,812	\$ 3,000,000
Allocated FY 2017	\$ 1,795,962	\$ 533,784	\$ 1,483,054	\$ 3,812,800
Allocated FY 2019	\$ 1,890,000	\$ 756,000	\$ 1,554,000	\$ 4,200,000
Total Allocated	\$ 49,588,888	\$ 8,221,337	\$ 15,570,852	\$ 73,381,076

The DNREC Drainage Program, with its partners at the Conservation Districts, is having a productive year in FY 2019. Expenditures through June 10<sup>th</sup> are over \$2.6 million and are expected to exceed \$3 million in FY 2019. The New Castle Conservation District ("NCCD") has been especially productive completing 30 of their 50 highest priority projects. Two examples of NCCD projects include the Carrcroft drainage improvement project on Baynard Boulevard that installed a new closed drainage system benefiting nine properties in north Wilmington and the Blackbird Station Road project that installed over 3,300 feet of pipe to improve drainage on a state maintained road and adjoining residential and farm properties in southern NCC. The Johnson Development Drainage Improvement Project near Blades in Sussex County is a \$1.6 million project that will improve drainage to over 50 properties and four state maintained roads. In Kent County, the Willow Grove / Blackwell project reconstructed over 6,000 feet of privately owned ditches. This project will provide needed relief to residential and agricultural lands near Willow Grove. We are anticipating a busy construction season as we move into spring and summer.

Table 2 is an excerpt from the RC&D Fund Expenditure Report (Appendix A). It shows the funds expended between FY 2015 and FY 2019. A list of the projects that have been completed in FY 2019 is contained in Appendix B. The lists are reported by county and contain the total project cost and the legislative district where the project was located. Projects that DNREC or one of the Conservation Districts is recommending be discontinued or removed from the approved list are also included in Appendix B.

Table 2

	NE	W CASTLE		KENT	SUSSEX	TOTAL
		EXPENDITU	IRES		LETE BINGE	
Expended FY 2015	\$	1,309,287	\$	563,513	\$ 586,9734	\$ 2,459,775
Expended FY 2016	\$	1,448,683	\$	568,644	\$ 1,187,669	\$ 3,204,996
Expended FY 2017	\$	1,315,066	\$	460,894	\$ 541,334	\$ 2,317,294
Expended FY 2018	\$	1,299,277	\$	239,440	\$ 498,488	\$ 2,037,204
Expended FY 2019	\$	838,392	\$	326,556	\$ 1,529,364	\$ 2,694,312
Total Expended (FY 1996 - FY2019)	\$	47,732,715	\$	6,905,130	\$ 13,901,440	\$ 68,539,286

Table 3 summarizes the remaining balance of RC&D program funds as of June 10, 2019. Epilogue language requires, once funding is allocated to a particular county, that funding can only be spent within that county. As such, when reviewing balances of the RC&D Fund, it is important to consider the remaining balances within each county, rather than the remaining balances statewide. Unexpended funds are allocated dollars that have not been spent by DNREC. Encumbered funds are funds that are unspent, but committed to another entity, including the Conservation Districts, through a signed agreement or contract. Unencumbered funds are unspent funds that are available to be committed to a project through agreement or contract. One way to think of unencumbered funds is to view them as dollars available for future work.

Table 3

	Unexpended	Encumbered	Unencumbered		
New Castle	\$ 1,856,173	\$ 1,856,173	\$ 0		
Kent	\$ 1,316,207	\$ 326,556	\$ 989,651		
Sussex	\$ 1,669,410	\$ 580,555*	\$ 1,088,855		
Statewide	\$ 4,841,790	\$ 2,763,283	\$ 2,078,506		
*Does not include	*Does not include \$750,000 reserved for Mercer Ave. project in Oak Orchard				

Although, there are balances remaining for each county, the work currently being planned in New Castle County and Sussex County exceeds the available funding. The funds available in Sussex County do not take into account \$750,000 that has been set aside for the Mercer Avenue project in Oak Orchard scheduled for construction in FY 2020. That leaves a balance of less than \$400,000 that is available in Sussex County. The next sections of this report will provide an explanation of the work being planned in each county in FY 2020.

#### **Active and Proposed Projects:**

Each year DNREC, in consultation with the Conservation Districts, prepares a list of prioritized projects in each county (Appendix C). Project prioritization is used as a tool to guide project development. However, it is an ongoing process that is flexible and allows funds to be directed to the projects that are most critical. This flexibility has been necessary in FY 2019 because it has allowed funds to be directed to areas damaged by the record rainfall. The following factors are considered when prioritizing projects.

- Public Safety
- Frequency of Flooding
- Project Status

- Property Damage
- Ability to leverage other funds
- Project Age

In 2007, DNREC implemented a Statewide Drainage Concern Hotline to provide a single point of contact to help constituents get assistance from the agency best suited to address their drainage issue. In 2018, all of Delaware received significantly higher than average rainfall. This excessive rainfall resulted in 602 new drainage concerns from July 1, 2018 – March 31, 2019. This already exceeds the annual average of 575 drainage concerns with three months still remaining in the fiscal year. This number only represents contacts through DNREC. If constituents reach out directly to the conservation district, these are not included in DNREC's metrics. Concerns not related to stormwater management and on private property, are generally assigned to the DNREC Drainage Program in Kent and Sussex Counties. In New Castle County, these concerns are investigated by the New Castle Conservation District. This increased volume in investigations has led to an increase in the project requests proposed in Appendix D and projects added through the emergency provisions provided in epilogue language. Table 4 provides a summary of active and proposed projects.

Table 4

	NEW CASTLE	KENT	SUSSEX	TOTAL
Active	466	209	238	913
Proposed	113	20	30	163
Total	579	229	268	1076

There are now 913 active projects that have been approved by the Joint Committee on Capital Improvement. This is an 11% increase over the number of active projects in June, 2018. Appendix D includes an additional 163 proposed projects that DNREC is recommending for approval. The total cost of just these proposed projects is over \$7.7 million. The proposed additions to the list already exceed the FY 2019 appropriation further increasing the funding deficit.

It is estimated that the total cost to complete all 1,076 active and proposed projects as described herein is \$103 million. If all projects are matched at the minimum requirement, (10%), then \$93 million of RC&D funds will be required to construct these projects. When including the \$4.8 million of unexpended RC&D funds, an additional \$88 million of RC&D funds will be needed to solve watershed and drainage issues identified in this report. DNREC is not suggesting an appropriation of \$88 million because there is not enough capacity to expend those dollars. However, the \$88 million is a useful reference to understand the statewide need for assistance with watershed and drainage issues.

Table 5 contains a summary of the estimated funding necessary to complete the active and proposed projects.

Table 5

	Active Projects Est. Cost	FY19 New Projects Est. Cost	Est. Cost All Projects	RC&D Funds Required	RC&D Unexpended	Fund Deficit
New Castle	\$ 43,044,938	\$ 4,356,550	\$ 47,401,488	\$ 42,661,339	\$ 1,856,173	\$ 40,805,166
Kent	\$ 16,995,402	\$ 1,007,000	\$ 18,002,402	\$ 16,202,162	\$ 1,316,207	\$ 14,885,955
Sussex	\$ 35,315,750	\$ 2,348,000	\$ 37,663,750	\$ 33,897,375	\$ 1,669,410	\$ 32,227,965
Total	\$ 95,356,090	\$ 7,711,550	\$ 103,067,640	\$ 92,760,876	\$ 4,841,790	\$ 87,919,086

#### Fiscal Year 2019 Priorities:

DNREC and the Conservation Districts do not have the capacity to complete all of the approved projects in a single year. Therefore, as part of the project prioritization process, we look at the fiscal year ahead and develop priorities to estimate the funding needs in each county. As expected, the Prioritized Project List and Annual Priorities for each county can change over the course of any given year. Changes could be for a number of reasons including severe weather events, a public safety problem, issues with landowners on a project, or the opportunity to leverage RC&D funds to get additional dollars. DNREC and the Conservation Districts look for opportunities to leverage RC&D funds through grants. If a particular project meets grant criteria, it may be prioritized in order to take advantage of the opportunity. RC&D funds have been used to leverage federal dollars through the Chesapeake Bay Implementation Grant and the Section 319 Grant. Projects have also taken advantage of surface water planning grants from the Water Infrastructure Advisory Committee and the National Fish and Wildlife Federation. The next three sections explain the priorities of each of the three counties as we move into FY 2020. These priorities are developed without consideration of available funding.

#### New Castle County Priorities FY 2020:

This section explains what projects DNREC anticipates working on in FY 2020. This plan was developed with the assumption that funds are available. As always, it is worth noting that projects require 100% agreement from landowners. As such, the time required to obtain landowner agreement may affect the construction schedule.

#### Projects in the "Construction" pipeline (fully funded)

- Elsmere Sycamore Avenue installation of an enclosed stormwater drainage system.
- Edgemoor Gardens installation of upgraded drainage systems NCC completed its component in December, 2018.
- **Dunleith** installation of an enclosed drainage system within this 60+ year old community.
- Simonds Gardens installation of upgraded drainage systems and water quality improvements.
- **Bayview Beach flood protection** collaboration with NCC to elevate homes above the flood elevations of the Delaware Bay.
- 3734 Kirkwood Highway Bulls Eye replace failed drainage system and repair sinkhole.
- Shallcross Place resurface and upgrade drainage system.
- The Millrace make drainage improvements and provide flood protection.
- **Breezewood** working with impacted property owners on a final design.
- Beech Hill working with impacted property owner on a final design.

#### Key projects in the Development Phase:

- Odessa National Drainage improvements
- Woods Road Tax Ditch
- Countryside Farms Tax Ditch
- Fishers Wharf ditch
- Autumn Horseshoe ditch
- Carrie Downie School drainage

- Marshallton Drainage improvements
- Wiggins Mill pond structures
- Covered Bridge Farms Trotters Turn
- Woodland Park Drainage improvements
- Old New Castle flood protection
- Cragmere Woods drainage

#### Key projects needing funding:

- Port Penn Dike rehabilitation project significant areas of Port Penn are at risk of possible flooding in the advent of changes in the elevation of the Delaware Bay. Complex engineering and flood management issues need to be addressed in order to prepare plans and specifications for a dike reconstruction project.
- Hunters Ridge street drainage from the adjoining subdivision is causing erosion issues.
- Pike Creek Road drainage improvements are needed near St. Marks High School.
- Westover Hills Drainage Ditch on Hopeton Road needs to be cleaned and regraded.

#### **Kent County Priorities FY2020:**

This section explains what projects DNREC anticipates working on in FY 2020. This plan was developed with the assumption that funds are available. As always, it is worth noting that projects require 100% agreement from landowners. As such, the time required to obtain landowner agreement may affect the construction schedule.

#### Projects in the "Construction" pipeline (fully funded)

- Town of Bowers (Tidegate on Hubbard Ave.) RC&D portion is complete, but the Town is still having issues with the tide gate.
- Willow Grove Road / Blackwell Excavation complete, but spoils need to be spread.
- Prospect Tax Ditch Maintenance Scheduled for completion in Spring of 2019
- Town of Viola Drainage Improvements Construction is 90% complete, but a field change required an additional catch basin. Scheduled for completion in Spring of 2019.
- Leipsic Tax Ditch Dipout Cleanout of the Leipsic Tax Ditch scheduled for completion in Spring of 2019
- Shaws Corner Road / Miller / Tracy Replacement of 400' of stormdrain and reconstruction of 400 feet of ditch. Scheduled for construction in the Spring of 2019.
- Lane View Drive, Scenic Acres / Sac Reconstruction of 600' of drainage swale near the Scenic Acres
   Development
- Wheatley's Pond Road / Durham Installation of 700' feet of drainage tile to be scheduled for construction in Spring 2019
- Bowers Beach Road / Malleck Phase II Installation of over 1,000 feet of tile drainage prevent lots on Bowers Beach Road from flooding.

#### Key projects in the Development Phase:

- South Bowers Drainage improvements
- Silver Lake Water management / DelTech Terry Campus
- Gravelly Run T.D. Main / Severson
- Hidden Acres Drainage Improvements
- Bush Dr. / Morris
- Shore Shore Drive / DelDOT
- Walnut Shade Road / Lavender
- Pearson Corner Road / Trice
- Voshells Cove / Richard Blvd / Gibson

- Hudson Rd /Taubler
- 241 S. Shore Dr. / Green
- 4948 Halltown Road / Butz
- 4938 Halltown Road. /Carey
- Pearsons Corner Road / Detweiler
- Alley Corner Rd. / Loman
- Smyrna Leipsic Rd. / Scuse
- Greenbriar Road / Pennypacker
- Willow Grove Rd. / Pratt
- 54 West Huntington / Lundy Phase I

#### Key Projects Needing Funding

Tar Ditch, also known as Meeting House Branch, is a critical project in Dover that will provide flood relief for State Street, Governors Avenue, Water Street, and Kent General Hospital (Bay Health). This project has been designed by the City of Dover utilizing a Surface Water Planning Grant. However, the cost is estimated to be \$8 million. It is anticipated that RC&D funds will be one part of the funding package the City will put together for this project.

#### **Sussex County Priorities FY 2020:**

This section explains what projects DNREC anticipates working on in Sussex County during FY 2020. This plan was developed with the assumption that funds are available. As always, it is worth noting that projects require 100% agreement from landowners. As such, the time required to obtain landowner approval may affect the construction schedule.

#### Projects in the "Construction" pipeline (fully funded)

- Chesapeake, Delaware, & Inland Bay Atlantic Ocean Violator of Probation Projects Projects utilize labor from Sussex Community Corrections to manually remove debris from ditch in these three Sussex County watersheds. Over 30 small projects have been requested.
- Elliott-Nichols Tax Ditch Main Channel Pipe Replacements Construction is complete except for regrading and seeding of the yard area that was disturbed. Anticipated completion in the Spring of 2019.
- Johnson Development Drainage Improvements Phase II \$1.6 million storm drain project started an estimated completion in the Spring of 2019.
- Selbyville Flood Drainage Project Phase II replacement of culverts under Railroad Avenue in Selbyville. Town has completed engineering, but needs funding for construction. Railroad Avenue is currently closed to traffic. Project will be complete by the summer of 2019.
- **Highland Acres Tax Ditch** installation of the pipe will be complete in the Spring of 2019.
- Silver Lake Rehoboth Phase II Portion of sinkhole was backfilled in Fall of 2019. Pipe to be lined in the Spring of 2019.
- Diamond Acres Drainage Improvements Rehabilitation of an infiltration that was constructed prior to stormwater law.
- Little Hill Road /Leonard Drainage Improvements Phase I Replacement of culvert under Little Hill Road and replacement of driveway pipes.
- Argyle Lane / Fise / Gugerty Phase 1 Removal of large tree that is blocking the ditch and reconstruction of swale on Argyle Lane
- Nanticoke Watershed Parrot Feather Milfoil Eradication project to control Parrott Feather Milfoil in 5 tax ditches in Sussex County.

#### Key projects in the Development Phase:

- Herring Branch Tax Ditch Main / Johnson/McCabe
   Carsylian Acres / Jordan Phase I
- Oak Orchard Drainage Improvements Phase 1 & Phase 4 (Mercer Ave. & Captains Grant)
- Russell Road / Harris
- Reid / Delmar Road
- Bear Hole Tax Ditch / Johnson
- Old Rauetmack / Malone Drainage
- Mt. Joy Road / Hoopes
- Raccoon Branch Tax Ditch Bank Stabilization
- Pepper Creek Tax Ditch Bank Stabilization
- Frankford Library/Green Street Drainage **Improvements**
- **Bay Beach Drainage Improvements**
- Oak Orchard Drainage Improvements
- Little Bay Tax Ditch Oceanside Pkwy Culvert Replacement

- Rd. 550 / Harry Simionick
- Trap Pond / White
- Town of Bethel / Snake Road Drainage Improvements Phase I
- Baltimore Avenue / Cheeks
- Dukes Job Tax Ditch / Morris Bank Stabilization
- Johnson Road (S434A) / Wojciechowski/ McCabe
- Woodpecker Rd / Wollschlager Drainage **Improvements**
- Ennis Road / Owens
- Pusey Road / Hudson
- Clearbrooke Estates / Damms
- Denton Manor/Jensen (Proposed FY2020 Project)
- Rt. 24 / Harper / Fox Hollow Drainage **Improvements**

#### Key Projects Needing Funding

Oak Orchard Drainage Improvements – The five high priority drainage projects identified in the Oak Orchard Drainage Study are currently being designed by AECOM. Four contracts will be issued for the 5 locations and construction will be spread over multiple fiscal years. The Mercer Avenue project is planned first and should go to construction in the fall of 2019 (FY2020) and funding has been set aside for that project. However, the other projects will need substantial funding to move forward.

#### FY 2020 Funding Need

As of June 10, 2019, there are \$4,841,790 of unexpended funds remaining in the RC&D Fund (refer to Table 3). Funds appropriated to DNREC are then allocated to each county based upon each county's percentage of the estimated total cost of all projects (refer to Table 6). As stated above, epilogue language in the Bond Bill requires DNREC to track the funds by county and mandates that funds allocated to a particular county be used within that county.

To determine the FY 2020 funding needs, DNREC has worked with the three Conservation Districts to identify priorities and estimate the funding needed to meet those priorities, as explained in the previous three sections of this report. Table 6 below shows the projected expenditures for each county and then the entire state based upon these priorities. Although these projections show negative values, actual spending cannot exceed available funding. The negative values represent the additional funding required to meet FY 2020 project priorities.

Table 6

	New Castle	Sussex	Kent	Statewide		
FY 2019 Starting Balance*	\$ 2,694,565	\$ 3,198,775	\$ 1,642,762	\$ 7,536,101		
FY 2019 Projected Expenditures	\$ 2,000,000	\$ 2,000,000	\$ 430,000	\$ 4,430,000		
FY 2019 Year End Balance	\$ 694,565	\$ 1,198,775	\$ 1,212,762	\$ 3,106,101		
FY 2020 Projected Expenditures	\$ 2,500,000	\$ 2,300,000	\$ 1,500,000	\$ 6,300,000		
FY 2020 Year End Balance	(\$ 1,805,435)	(\$ 1,101,225)	(\$ 287,238)	(\$ 3,193,899)		
*FY2019 Starting Balance includes FY2019 Appropriation as allocated to each county.						

These projections are based upon the priorities developed by each county and explained in the previous three sections of this report. As mentioned previously, many factors impact actual expenditures in any particular year. Those factors can include weather, landowner permission, permitting, as well as others. There is, based upon the priorities presented in this report and the increased demand for assistance in FY 2019, a need for at least \$3.2 million. In a normal weather year, an appropriation of \$4.5 million would keep pace with requests and allow DNREC and the Conservation Districts to address additional projects. However, it should be noted, with the challenging weather conditions Delaware experienced in FY2019, additional one time funding could be utilized. The FY 2020 Governor's Recommended Capital Budget does not include funding for this program. We will continue to work on projects based on the priorities presented in this report as long as funds are remaining.

# Appendix C Proposed FY 2020 RC&D Projects

## **Proposed FY2020** New Resource Conservation and Development Projects

## 21st Century Fund

## New Castle County -- 6/11/19

Project	Remarks	Estimated	Representative	Senatorial
Project	Remarks	Total Cost	District	District
109 N. Dupont Road	Placeholder	\$30,000	4	4
204 Eagles Landing Road	Install pipe and regrade	\$25,000.00	9	14
207 Wiggins Mill Road	Install control structures at the ponds	\$160,000.00	11	14
409 Junction Street	Placeholder	\$20,000.00	13	7
409 New Road	Install closed drainage system	\$29,700.00	13	7
705 Bay View Road	Placeholder	\$40,000.00	9	14
960 S. Chapel Street	Placeholder	\$20,000.00	24	11
1112 Smyrna Landing Road	Clean and regrade ditch	\$23,500.00	9	14
3520 Newport Gap Pike	Placeholder	\$20,000.00	4	7
4293 Dupont Parkway	Placeholder	\$20,000.00	11	14
Afton - 1603 Bolton Road	Placeholder	\$20,000.00	10	5
Anglesey - 19 Harlech Drive	Placeholder	\$20,000.00	4	7
Appoquin Farms - 8 Brant Court	Placeholder	\$10,000.00	9	14
Ashbourne Hills - 11 East Dickens Drive	Install closed drainage system	\$42,000.00	7	1
Aspen Woods - 37 Cardenti Court	Placeholder	\$1,000.00	26	11
Augustine Hills - Stone Hill Road	Placeholder	\$10,000.00	4	4
Augustine Ridge - Rock Manor Avenue	Drainage improvements	\$50,000.00	4	4
Barrett Run - Barrett Run Place	Placeholder	\$1,000.00	26	11
Beech Hill - 109 Beech Hill Drive	Placeholder	\$1,000.00	22	8
Bellevue - 506 Calhoun Road	Install closed drainage system	\$20,500.00	6	1 7
Brack Ex - 117 Exmore Avenue	Install closed drainage system	\$26,500.00	13	7
Brackenville Road Drainage	Placeholder	\$1,000.00	12	4
Brandywine Hunt - 405 Derby Way	Install closed drainage system	\$40,700.00	10	5
Brookland Terrace - Bookland Ave. and Rhode Island Avenue	Placeholder	\$50,000.00	7	13
Brookmeade - Redstart Court	Install closed drainage system	\$32,700.00	4	7
Caravel Farms - 248 Benjamin Blvd.	Regrade backyard	\$13,500.00	27	12
Caravel Farms - Forrestal Drive	Placeholder	\$20,000.00	27	12
Carpenter Row Sign and Drainage	New sign and drainage improvements	\$11,500.00	4	4
Carrie Downie School Drainage	Placeholder	\$25,000.00	16	12
Cedar Farms - 1 Cedar Farms Drive	Install closed drainage system	\$94,700.00		11
Centerville Point - Centerville Terrace Circle	Install swale and regrade yards to drain	\$25,000.00	4	7
Chelfonte - Granby Road and Oakmere Road	Placeholder	\$30,000.00	10	5
Chestnut Valley - Renee Lane	Placeholder	\$30,000.00		4
Chestnut Valley - Willow Creek Lane	Placeholder	\$30,000.00		4
Cragmere Woods	Install closed drainage system	\$119,200.00	6	1
Dartmouth Woods - 2611 Abington Road	Placeholder	\$30,000.00	10	5
Dartmouth Woods - 31 Ross Road	Install swale and regrade yard to drain	\$19,500.00	10	. 5
Dartmouth Woods - 35 Sturbridge Drive	Placeholder	\$1,000.00	10	5
Deerborne Woods - 47 Derrborne Trail	Placeholder	\$1,000.00	27	10
Duncan Woods - 3731 Wild Cherry Lane	Install closed drainage system	\$146,600.00	19	8
Edinburgh Villas - MacKenzie Court	Placeholder	\$40,000.00		13
Edinburgh Villas - MacTavish Court	Placeholder	\$40,000.00	5	13
Elmwood - Majestic Drive	Placeholder	\$1,000.00		9
Estates of Red Lion - 8 S. Gabriel Drive	Install closed drainage system	\$36,600.00		12
Exton - 2103 Exton Drive	Install closed drainage system	\$33,700.00		5
Fairfax Farms - Nenagh Drive	Re-grade rear yard	\$18,200.00		4
Faulkland Road Drainage	Placeholder	\$20,000.00		7
Forest Glen 2 - 312 Paddington Drive	Install closed drainage system	\$57,750.00		12
Four Seasons - Autumn Horseshoe Bend	Clean and regrade ditch	\$95,000.00		10
Gateway Townhomes - Beech Tree Lane	Placeholder	\$30,000.00		4
Harmony Hills - 208 Catalina Drive	Install swale and regrade yard to drain	\$24,400.00		9
Harvey Run - Nikhil Court	Install closed drainage system and underdrain	\$37,500.00		1
Heatherbrooke Drainage - East Heather Road	Placeholder	\$60,000.00		5
Hockessin Greene	Placeholder	\$50,000.00	22	4

Project	Remarks	Estimated Total Cost	Representative District	Senatorial District
Hunters Ridge - Entrance Drainage	Placeholder	\$30,000.00	22	4
Hunters Ridge - Haystack Drive	Placeholder	\$50,000.00	22	4
Hyde Run - 3316 Heritage Drive	Placeholder	\$20,000.00	4	7
Kirkwood Gardens - 2414 Hammond Place	Placeholder	\$25,000.00	19	7
Lamatan - Flint and Quartz Mill Roads	Placeholder	\$30,000.00	22	8
Llangollen Estates - 316 Wooddale Ave.	Placeholder	\$5,000.00	17	12
Manley - Robin Drive	Placeholder	\$20,000.00	22	4
Mariners Watch -157 & 159 Portside Court	Regrade area to drain	\$13,900.00	15	12
Marshallton Drainage Study	Study	\$60,000.00	19	7
Marshallton - Washington Avenue	Drainage improvements	\$175,000.00	19	7
Meadow Glen Ditch	Regrade ditch	\$22,500.00	27	12
Melody Meadows - Misty Court	Clean ditch and install driveway pipes	\$41,500.00	27	10
Melody Meadows - 53 Stardust Drive	Clean ditch and install driveway pipes	\$36,600.00	27	10
Milltown Road	Drainage improvements	\$80,000.00	21	9
Monterey Farms - 841 Reybold Drive	Clean ditch and install driveway pipes	\$42,700.00	5	13
Northcrest - 1812 Walter Drive	Regrade yard to drain	\$33,200.00	10	5
Oak Hill School Road - Ditch	Placeholder	\$40,000.00	11	14
Oak Lane Manor - 2104 Allendale Road	Placeholder	\$1,000.00	12	4
Pike Creek Road and Pennock Road	Install closed drainage system	\$85,000.00	21	9
Pleasant Valley Estates - 125 and 127 Bartley Road	Placeholder	\$30,000.00	27	10
Rising Sun Lane - Drainage Improvements	Regrade area and support railroad abutment	\$225,000.00	4	1
River Ridge - Villa Road	Install closed drainage system	\$40,000.00	6	1
Rivers End - Bynum Place	Placeholder	\$1,000.00	18	11
Rockland Milfs Pond	Placeholder	\$50,000.00	4	4
Rose Hill - 16 Crimson King Drive	Install ditch	\$13,600.00	27	10
Salem Woods - 9 Linette Court	Placeholder	\$1,000.00	26	11
Sedgley Farms - Stone Barn Lane	Placeholder	\$35,000.00		4
Sharpley - 722 to 726 Foulkstone Road	Placeholder	\$50,000.00	12	4
Sherwood Forest Stream Restoration	Stream restoration	\$130,000.00	7	5
Shipley Road and Wilson Road Drainage	Placeholder	\$50,000.00		5
Simonds Gardens Park Drainage	Drainage improvements	\$243,500.00	16	2
Southwood - Slashpine Circle	Placeholder	\$15,000.00	22	8
Spring Creek - 246 Labrador Lane	Install closed drainage system	\$37,700.00		14
Stenning Woods - 302 Hadley Court	Placeholder	\$30,000.00		8
Stonefield – 21 Mica Street	Regrade ditch	\$37,500.00	9	14
Summer Hill - 2 Jaymar Drive	Placeholder	\$1,000.00	26	11
The Ridge - Sleepy Hollow Court	Placeholder	\$20,000.00		4
Timber Farms - Timber Wood Blvd.	Install underdrain and grade	\$34,100.00	f	11
Timber Farms - West Hummock Lane	Placeholder	\$50,000.00		11
Tybrook and Woodland Park Drainage Study	Study	\$25,000.00		7
Tybrook - Frann Road	Drainage improvements	\$6,000.00		
Upper Pike Creek Road Stream Restoration	Placeholder	\$60,000.00 \$20,000.00		4
Villages at Fairview Farm - 19 Fairview Avenue	Placeholder			10
Village of Red Lion Creek	Placeholder	\$30,000.00		12
Weber Tract - Lloyd Place	Placeholder	\$40,000.00		5
Webster Farms - 1115 Webster Drive	Placeholder	\$20,000.00		
Weldin Farms - 1506 Turkey Run Road	Regrade ditch	\$11,700.00		5 8
Wellington Hills - Pierson Drive	Placeholder	\$30,000.00 \$50,000.00		9
West Cedar Heights - 326 Clyde Street	Install closed drainage system			4
Westhaven - Willing Way	Placeholder	\$50,000.00		4
Westover Chase - Moorfield Turn	Install closed drainage system	\$17,600.00 \$23,900.00		4
Westover Hills - Hopeton Road	Clean ditch			4
Westover Hills - 702 to 704 Hopeton Road	Install closed drainage system	\$82,000.00		11
Westover Woods - Sarah Court	Clean channel	\$18,100.00		8
Westridge - 512 Thorndale Drive	Install ditch Placeholder	\$26,600.00		9
Windy Hill - 34 Ferncliff Drive		\$10,000.00 \$1,000.00		11
Woodland Run Pond	Placeholder			4
Yorklyn Ridge - 3 Yorkridge Trail SUBTOTAL -New Castle County	Install cutoff swale	\$63,100.00		+
FY20 New Projects	113 Projects	\$ 4,356,550		

## <u>Proposed FY2020</u> New Resource Conservation and Development Projects Kent County - Final 06/13/2019

Project	Remarks	Estimated Total Cost	Representative District	Senatorial District
1679 Dupont Highway / KCD	Pipe and Catch Basin Repair	\$50,000	32	16
Downes Drive/Rodden	channel reconstruction	\$50,000	11	15
Farmington Drainage/Butler	open ditch reconstruction	\$15,000	30	16
Fernwood Drive/Webber	construct open ditch through Fernwood Development	\$25,000	30	16
Hopkins Cemetery Road/Peterson	installation of new piped system along road	\$60,000	30	15
Ironmine Road/Ford	construct open ditch	\$20,000	30	15
Kenton Rd. / High Street	Strom Drain System	\$75,000	30	18
Kenton Road/Stotler	reconstruction of swales	\$12,000	29	15
Kitts Hummock Road/Webb	tile drainage for crossroad pipe	\$10,000	32	16
McKee Rd / Pruett	Reconstructioin of open ditch and replacement of pipes	\$25,000	29	15
Moores Meadows	Construction of open ditch	\$50,000	29	17
Paradise Alley Road/Bailey	installation of new tile system for road pipe	\$30,000	30	15
Pearsons Corner Road/Passwaters	cleanout of roadside ditching and reset driveway pipes or tile drainage installation to the rear of property	\$60,000	29	15
Plum Drive/Hurd	fix pipe with a sink hole and construct outlet ditch	\$50,000	34	16
Rose Dale Lane/Fleitz	construction of open ditch and tile drainage	\$50,000	11	15
Rt-9/Wicks	tile drainage for crossroad pipe	\$30,000	28	14
South Little Creek Road / Little	2,600 feet of stream restoration	\$250,000	32	16
W. Fairway Circle / Hugg	channel construction and pipe installation	\$80,000	29	15
Williamsville Rd / Pike	Reconstructioin of open ditch and replacement of pipes	\$50,000	11	15
Windrow Way / Moreau	reconstruction of swales	\$15,000	33	16
SUBTOTAL - Kent County FY20 New Projects	20 New Projects	\$ 1,007,000		
SUBTOTAL - Kent County FY20 New Projects Required		\$ 906,300		

## Proposed FY2020 New Resource Conservation and Development Projects

Sussex County - Final 06/13/2019

Project	Remarks	Estimated Total Cost	Representative District	Senatorial District
Airport Road/Hearn	1,200 feet of storm drain along Airport Road S 2018-338	\$100,000	39	21
Branch Acres/Taylor	450 feet of new ditch construction and 1,000 feet of channel reconstruction	\$35,000	41	20
Brickyard Road/Hearn	900 Feet of ditch reconstruction on Mobile Gardens MHP \$ 2018-355	\$12,000	39	21
Byard Road/Langenfelder	1,600 feet of channel reconstruction S 2018-344	\$25,000	38	20
Cannon Raod / Cancel	Reconstruct 1,500 feet of open ditch connecting to Bucks Branch Tax Ditch	\$15,000	39	19
Cedar Neck Road/Bullock	5,000 feet of Ag Ditch maintenance, construction of 1,500 feet of new storm drain, and construction of 800 feet of new ditch.	\$200,000	36	18
Clam Avenue/Brittingham	Drainage improvements in Beachwood Development 500 feet of ditch reconstruction and internal drainage improvements	\$65,000	38	20
Cross Keys Road / Messick	4,500 feet of dipout and new ditch construction S 2019- 376	\$60,000	41	21
Denton Manor/Jensen	2,000 feet of channel reconstruction. Replacement of culvert and storm drain along Railway Avenue.  Reconstruction of drainage network inside of Denton Manor	\$225,000	38	20
Gordy Road/Chapman	Construct swale from Gordy Road to existing Ditch along proprty line S 2018-259	\$10,000	40	21
Gordy Road/Littleton	Reconstruct 2,100 feet of argicultural drainage ditch. S 2019-249	\$30,000	40	21
Lisa Avenue/Kaufman	1,000 feet of channel reconstruction and replacement of one crossroad pipe add to scope pending investigation on Owens DC	\$35,000	38	20
Magnolia Street Drainage / Town of Milton	Town of Milton project to improve the drainage of Magnolia Street and the Municipal parking lot.	\$150,000	20	6
Midpark / Pertuccy	Installation of stormdrain system in development. Potential streetscape project	\$200,000	14	6
Morgan Drive/Gale	new swale construction and driveway pipe installation. 1,000 feet of ditch cleanout	\$25,000	35	18
N. Union Church Rd. / Fitzgerald / Evans	15,000 feet of ditch reconstruction and replacement of pipes. S 2019-205	\$100,000	35	18
Nelsa Lane/Valente	Addition to the scope of Oak Orchard/Oak Meadows	\$75,000	37	20
Old Stage Road watershed study	Flood study of Cooper Branch tributary to Broad Creek	\$60,000	40	21
Paradise Road/Richardson	7,000 feet of channel reconstruction	\$75,000	40	19
Quaint Acres / VanBergen / Pusey Drainage Improvement	Reconstruct 2,000 feet of drainage swales and road crossings in the development. This project ties into the upper end of Sub 1 of Prong 3A S 2018-294 & S 2019-327	\$75,000	38	20
Rehoboth Manor/ Difrancesco	New street drainage and rehabilitation of existing storm drain	\$150,000	14	6
Route 5/Thompson	replacement of private crossroad pipe on Rock Switch street	\$20,000	20	18
Shiloh Rd / Semat	Roadside Drainage Improvements and expansion of L&W Tax DitchS 2019-241	\$50,000	40	21
Smithfield Acres/Lyons	Emergency addition to replace pipe under Smith avenue and ditch cleanout	\$21,000	38	20
South Hampton / McCabe Tax Ditch	Replacement of 6 private cross road pipes in the South Hampton Development.	\$150,000	38	20
Spicer Road/Baynes	4,500 feet of channel reconstruction	\$75,000	36	18

## Sussex County - Final 06/13/2019

Project	Remarks	Estimated Total Cost	Representative District	Senatorial District
The Glade/August	1,000 feet of channel reconstruction and replacement of 8 driveway pipes	\$35,000	14	6
Warwick Park/Fowler	Solve multiple drainage issues and rehabilitate storm drain within the community	\$200,000	41	20
Wil King Road / Thomas	2,000 Feet of new ditc to provide an outlet to the nothern end of WilKing Road. S 2019-355	\$25,000	14	6
Wilson Hill Road / Klingensmith	Reconstruct 4,500 feet of open ditches that outlet to Mifflen Tax Ditch S 2019 -293	\$50,000	35	19
SUBTOTAL - Sussex County FY20 New Projects	30 New Projects	\$ 2,348,000		
SUBTOTAL - Sussex County FY20 New Projects 21CF Required		\$ 2,113,200		

# Appendix **D**Prioritized Active Projects

## **Status Key**

Construction – Notice to proceed has been issued

**Contracting** – Process of obtaining contractor and purchase orders

**Funding** – needs additional funds to move forward (21<sup>st</sup> Century or Match)

**Land Rights** – Obtaining landowner permission

**Permitting** – Obtaining environmental permits

**Engineering** – Surveying and Design

**Scoping** – Project scope development & and permission to survey

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
1	2014	Port Penn Dike Rehabilitation	Rehabilitate dike	Funding	\$3,000,000.00	9	14
2	2018	Simonds Gardens Drainage Study	Drainage study	Scoping	\$85,000,00	16	2
3	2019	Simonds Gardens Drainage Improvements	Drainage improvements	Engineering	\$391,600.00	16	2
4	2015	Elsmere - Sycamore Avenue	Install closed drainage system	Engineering	\$408,300.00	13	7
5	2017	Edgemoor Gardens - Rysing Drive	Install closed drainage system	Construction	\$238,000.00	6	1
6	2018	Odessa National Study Phase 1 and 2	Study	Scoping	\$60,900.00	9	14
7	2008	Bayview Beach flood protection	New Castle County project in partnership with NCCD	Construction	\$750,000.00	9	14
8	2015	Marshallton - Old Capitol Trail	Drainage improvements	Funding	\$225,000.00	19	7
9	2019	3734 Kirkwood Highway - Bulls Eye	Replace failed pipe	Engineering	\$110,000.00	19	7
10	2020	207 Wiggins Mill Road	Install control structures at the ponds	Funding	\$160,000,00	11	14
11	2019	Shallcross Place	Drainage improvements	Engineering	\$90,000,00	8	10
12	2019	1012 Jamison Corner Road	Drainage improvements	Engineering	\$44,000,00	9	12
13	2019	Beech Hill - 47 Beech Hill Drive	Install closed drainage system	Engineering	\$33,400,00	22	8
14	2019	Brack Ex - 121 Exmore Avenue	install closed drainage system	Engineering	\$16,700,00	13	7
15	2019	Brandywood - 2611 Pennington Drive	Install closed drainage system	Engineering	\$47,200.00	10	5
16	2019	Dunleith - 422 Carver Drive	Regrade yard to drain	Engineering	\$19,700,00	16	2
17	2019	Food Bank of Delaware	Drainage improvements	Engineering	\$40,000,00	- 8	10
18	2019	Great Good Place II - 117 Great Circle Road	Install rip rap	Engineering	\$20,500,00	22	8
19	2019	Harmony Crest Sec II - 108 Piano Drive	Install closed drainage system	Engineering	\$16,000.00	18	9
20	2019	Highland Woods - 4 Big Oak Lane	Regrade ditch and place riprap	Engineering	\$8,700.00	7	5
21	2019	Midway Little League Drainage	Regrade swale	Engineering	\$21,400,00	21	9
22	2019	North Star - 210 Mercury Road	Install closed drainage system	Engineering	\$100,400.00	22	. 8
23	2019	Saddlebrook - 154-168 Freedom Trail	Regrade swale	Engineering	\$36,500.00	5	13
24	2019	The Millrace - 649-657 Millrace Lane	Drainage improvements	Engineering	\$102,000.00	12	4
25	2019	Whitebriar - 731 & 737 Whitebriar Road	Install ditch	Engineering	\$29,600.00	12	4
26	2019	Whitehall - 152 W. Edinburgh Drive	Install closed drainage system	Engineering	\$38,400.00	18	13
27	2019	Woodburne - 33 Elks Trail	Install inlet in backyard	Engineering	\$12,700.00	5	13
28	2019	Wynthorpe - 212 Southwyk & 38 Bancroft	Install closed drainage system	Engineering	\$25,600.00	17	12
29	2018	Chandeleur Woods- Niobrara Lane	Clean and regrade ditch	Construction	\$10,000.00	15	12
30	2018	Riveredge Estates Bio-Swale	Clean and regrade ditch	Construction	\$11,500.00	17	12
31	2018	Rutherford - 107 Greenfield Road	Regrade yard to drain	Construction	\$10,000.00	18	9
32	2018	Westover Hills - 703 Westover Road	Regrade yard to drain	Construction	\$9,700.00	4	4
33	2018	Rutherford - 107 Rutherford Drive	Regrade yard to drain	Construction	\$10,000.00	18	9
34	2018	Caravel Farms - 304 Caravel Drive	Install closed drainage system	Construction	\$33,250.00	27	12
35	2009	DELAWARE CITY DRAINAGE IMP-PHASE II	DESIGN AND CONSTRUCT CITY DRAINAGE	Construction	\$2,700,000.00	15	12
36	2016	(Branch Canal) Melody Meadows - 70 Stardust Drive	IMPROVEMENTS Clean and restore drainage ditch	Construction	\$14,350.00	27	10
37	2017	Gender Woods - Cypress Drive	Install closed drainage system	Construction	\$63,300.00	24	11
38	2017	Melody Meadows - 120 Cann Road	Grade and clean out ditch.	Construction	\$24,700.00	27	10
39	2019	255 Union Church Road	Replace failed pipe	Construction	\$28,650.00	9	14
40	2019	866 Black Diamond Road	Install closed drainage system	Construction	\$106,850.00	9	14
41	2019	Beech Hill - 41 Beech Hill Drive	install closed drainage system	Construction	\$18,500.00	22	8
42	2019	Caravel Farms - 30 Kimmie Court	Clean ditch and place rip rap	Construction	\$36,200.00	27	12
43	2019	Caravel Woods - McMahon Drive	Regrade swale	Construction	\$17,900.00	6	12
44	2019	Centennial Village - 15 Warren Place	Regrade and clean swale	Construction	\$6,500.00	5	13
45	2019	Channin - 2403 Ramblewood Drive	Install closed drainage system	Construction	\$19,400.00	10	5
46	2019	Colonial Park - 107 Atkins Avenue	Install closed drainage system	Construction	\$97,700.00	13	3
47	2019	Colonial Park - 18 Atkins Avenue	Install closed drainage system	Construction	\$62,250.00	13	3
48	2019	Cooper Farms - 12 Cornell Road	Install closed drainage system	Construction	\$33,700.00	19	7
49	2019	Green Valley - 911 8th Street	Install closed drainage system	Construction	\$27,700.00	21	9
50	2019	Jarrell Farms - 7 Jarrell Farms Drive					
			Install underdrain	Construction	\$11,500.00	22	8
51	2019	Lindamere 503 River Road	Install closed drainage system	Construction	\$39,800.00	6	1 10
52	2019	Melody Meadows - 84 Stardust Drive	Clean ditch and place a low flow channel	Construction	\$17,350.00	27	10
53	2019	Stone's Throw - Cobble Creek Curve	Repair pipe and patch roadway	Construction	\$10,000.00	25	10
54	2019	Timber Farms - 618 - 630 Timber Wood	Install closed drainage system	Construction	\$60,900.00	26	11
55	2019	Woodland Park - 2109 Peachtree Drive	Drainage improvements	Construction	\$16,500.00	4	7
56	2018	River Walk - Darling Street & Charles Court Drainage	Install closed drainage system.	Construction	\$28,500.00	26	11
57	2018	River Walk - Darling street & Lisa Drive	Closed system and swale	Construction	\$35,200.00	26	11
58	2018	Rutledge - Marlin Court	Install closed drainage system.	Construction	\$26,000.00	5	13
59	2017	Little Falls Village	Curb replacement	Construction	\$96,000.00		7
60	2017	Pleasant Valley Estates - Bartley Drive	Grade and clean out ditch	Construction	\$25,300,00	27	10
61	2015	Dunleith - 422 Bethune Drive	Install curb with underdrain along side of house.	Construction	\$14,850.00		2
62	2017	1609 Joe Goldsborough Road	Install ditch	Engineering	\$72,000.00		14
63	2018	Old Cooches Bridge Road Drainage	Replace pipes and ditch	Engineering	\$39,500.00		10
64	2019	Whethersfield - Dasher Avenue	Install closed drainage system	Engineering	\$47,750.00		13
	2019						13
65		Whethersfield - Penny Lane Whitebriar - 741 Whitebriar Road	Install closed drainage system	Engineering	\$42,300.00		
66	2019		Install underdrain	Engineering	\$15,300.00		4
67	2019	Sunnybrae - 13 Crenshaw Drive	Stream stabilization	Engineering	\$39,200.00		5
68	2019	Sharpley - Foulkstone Road	Install closed drainage system	Engineering	\$40,700.00		4
69	2019	Sherwood Forest - 39 Stature Drive	Regrade yard to drain	Engineering	\$9,300.00		9
70	2019	Spring Creek Pond #1 and #2	Erosion at pond outfalls	Engineering	\$105,000.00		14
71	2019	Odessa National - Loft Street	Install closed drainage system	Engineering	\$40,200.00		14
	2019	Oak Hill School Road	Remove and replace farm crossing pipe	Engineering	\$20,800.00	11	14

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatoria District
73	2019	Morningside - Morning Glen Lane	Install closed drainage system	Engineering	\$120,000,00	22	4
74	2019	Londonderry - Emerald Place	Install closed drainage system	Engineering	\$29,250.00	10	5
75	2019	Devon - Malvern Ct, and Morningside Rd.	Install closed drainage system	Engineering	\$49,900.00	10	5
76	2019	Enclave at Odessa - Barcelona & Madrid	Regrade swale	Engineering	\$45,800.00	9	14
77	2019	Breezewood - Eastwind Court	Install closed drainage system	Engineering	\$41,900,00	24	11
78	2019	2404 North Grant Avenue	Install Trench Drain	Engineering	\$27,400,00	4	1
79	2019	1940 Rising Sun Lane	Install drainage system	Engineering	\$90,500.00	4	1
80	2020	109 N. Dupont Road	Placeholder	Funding	\$30,000.00	4	4
81	2020	204 Eagles Landing Road	Install pipe and regrade	Funding	\$25,000.00	9	14
83	2020	409 Junction Street	Placeholder	Funding	\$20,000.00	13	7
84	2020	409 New Road	Install closed drainage system			13	
			The state of the s	Funding	\$29,700.00		7
85	2020	705 Bay View Road	Placeholder	Funding	\$40,000.00	9	14
86	2020	960 S. Chapel Street	Placeholder	Funding	\$20,000.00	24	- 11
87	2020	1112 Smyrna Landing Road	Clean and regrade ditch	Funding	\$23,500,00	9	14
88	2020	3520 Newport Gap Pike	Placeholder	Funding	\$20,000,00	4	7
89	2020	4293 Dupont Parkway	Placeholder	Funding	\$20,000.00	11	14
90	2020	Afton - 1603 Bolton Road	Placeholder	Funding	\$20,000.00	10	5
91	2020	Anglesey - 19 Harlech Drive	Placeholder	Funding	\$20,000.00	4	7
92	2020	Appoquin Farms - 8 Brant Court	Placeholder		\$10,000.00	14	
	-			Funding			
93	2020	Ashbourne Hills - 11 East Dickens Drive	Placeholder	Funding	\$20,000.00	7	1
94	2020	Aspen Woods - 37 Cardenti Court	Placeholder	Funding	\$1,000.00	26	11
95	2020	Augustine Hills - Stone Hill Road	Placeholder	Funding	\$10,000.00	4	4
96	2020	Augustine Ridge - Rock Manor Avenue	Drainage improvements	Funding	\$50,000.00	4	4
97	2020	Barrett Run - Barrett Run Place	Placeholder	Funding	\$1,000.00	26	11
98	2020	Beech Hill - 109 Beech Hill Drive	Placeholder	Funding	\$1,000.00	22	8
99	2020	Bellevue - 506 Calhoun Road	Install closed drainage system	Funding	\$20,500.00	6	1
00	2020	Brack Ex - 117 Exmore Avenue	Install closed drainage system	Funding	\$26,500.00	13	7
.01	2020	Brackenville Road Drainage	Placeholder	Funding	\$1,000.00	12	4
02	2020	Brandywine Hunt - 405 Derby Way Brookland Terrace - Bookland Ave, and Rhode	Install closed drainage system Placeholder	Funding Funding	\$40,700.00	7	5 13
04	2020	Island Avenue Brookmeade - Redstart Court	Install closed drainage system	Funding	\$32,700.00	4	7
05	2020	Caravel Farms - 248 Benjamin Blvd.	Regrade backyard				
				Funding	\$13,500.00	27	12
.06	2020	Caravel Farms - Forrestal Drive	Placeholder	Funding	\$20,000.00	27	12
07	2020	Carpenter Row Sign and Drainage	New sign and drainage improvements	Funding	\$11,500,00	4	4
.08	2020	Carrie Downie School Drainage	Placeholder	Funding	\$25,000.00	16	12
.09	2020	Cedar Farms - 1 Cedar Farms Drive	Install closed drainage system	Funding	\$94,700.00	26	- 11
10	2020	Centerville Point - Centerville Terrace Circle	Install swale and regrade yards to drain	Funding	\$25,000.00	4	7
.11	2020	Chelfonte - Granby Road and Oakmere Road	Placeholder	Funding	\$30,000.00	10	5
L12	2020	Chestnut Valley - Renee Lane	Placeholder	Funding	\$30,000.00	22	4
L13	2020	Chestnut Valley - Willow Creek Lane	Placeholder	Funding	\$30,000.00	22	4
14	2020	Cragmere Woods	Install closed drainage system	Funding	\$119,200.00	6	1
.15	2020	Dartmouth Woods - 2611 Abington Road	Placeholder	Funding	\$30,000.00	10	5
16	2020	Dartmouth Woods - 31 Ross Road	Install swale and regrade yard to drain	Funding	\$19,500.00	10	5
17	2020	Deerborne Woods - 47 Derrborne Trail	Placeholder			27	10
				Funding	\$1,000.00		
18	2020	Duncan Woods - 3731 Wild Cherry Lane	Install closed drainage system	Funding	\$146,600.00	19	8
19	2020	Edinburgh Villas - MacKenzle Court	Placeholder	Funding	\$40,000.00	5	13
20	2020	Edinburgh Villas - MacTavish Court	Placeholder	Funding	\$40,000.00	5	13
21	2020	Estates of Red Lion - 8 S. Gabriel Drive	Install closed drainage system	Funding	\$36,600.00	15	12
22	2020	Exton - 2103 Exton Drive	Install closed drainage system	Funding	\$33,700.00	10	5
23	2020	Fairfax Farms - Nenagh Drive	Re-grade rear yard	Funding	\$18,200.00	12	4
24	2020	Faulkland Road Drainage	Placeholder	Funding	\$20,000.00	4	7
25	2020	Forest Glen 2 - 312 Paddington Drive	Install closed drainage system	Funding	\$57,750.00	15	12
26	2020	Four Seasons - Autumn Horseshoe Bend	Clean and regrade ditch	Funding	\$95,000.00		
						25	10
27	2020	Gateway Townhomes - Beech Tree Lane	Placeholder	Funding	\$30,000.00	12	4
28	2020	Harmony Hills - 208 Catalina Drive	Install swale and regrade yard to drain	Funding	\$24,400.00	21	9
29	2020	Harvey Run - Nikhil Court	Install closed drainage system and underdrain	Funding	\$37,500.00	7	1
30	2020	Heatherbrooke - East Heather Road	Placeholder	Funding	\$60,000.00	6	5
31	2020	Hockessin Greene	Placeholder	Funding	\$50,000,00	22	4
32	2020	Hockessin Valley Falls	Placeholder	Funding	\$10,000.00	22	4
33	2020	Hunters Ridge - Entrance	Placeholder	Funding	\$30,000.00	22	4
34	2020	Hunters Ridge - Haystack Drive	Placeholder	Funding	\$50,000.00		4
	2020					22	
35		Hyde Run - 3316 Heritage Drive	Placeholder	Funding	\$20,000.00	4	7
36	2020	Kirkwood Gardens - 2414 Hammond Place	Placeholder	Funding	\$25,000.00	19	7
37	2020	Lamatan - Flint and Quartz Mill Roads	Placeholder	Funding	\$30,000.00	22	8
38	2020	Llangollen Estates - 316 Wooddale Ave.	Placeholder	Funding	\$5,000.00	17	12
39	2020	Manley - Robin Drive	Placeholder	Funding	\$20,000.00	22	4
40	2020	Mariners Watch -157 & 159 Portside Court	Regrade area to drain	Funding	\$13,900.00	15	12
41	2020	Marshallton Drainage Study	Study	Funding	\$60,000.00	19	7
12	2020	Marshallton - Washington Avenue	Drainage improvements	Funding	\$175,000.00	19	7
					\$22,500.00		12
43	2020	Meadow Glen Ditch	Regrade ditch	Funding			

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
144	2020	Melody Meadows - Misty Court	Clean Ditch and Install Driveway Pipes	Funding	\$41,500.00	27	10
145	2020	Melody Meadows - 53 Stardust Drive	Clean Ditch and Install Driveway Pipes	Funding	\$36,600.00	27	- 10
146	2020	Milltown Road	Drainage improvements	Funding	\$80,000.00	21	9
147	2020	Monterey Farms - 841 Reybold Drive	Clean ditch and install driveway pipes	Funding	\$42,700,00	5	13
148	2020	Northcrest - 1812 Walter Drive	Regrade yard to drain	Funding	\$33,200.00	10	5
149	2020	Oak Hill School Road - Ditch	Placeholder	Funding	\$40,000.00	11	14
150	2020	Oak Lane Manor - 2104 Allendale Road	Placeholder	Funding	\$1,000.00	12	4
151 152	2020	Pike Creek Road and Pennock Road Pleasant Valley Estates - 125 and 127 Bartley Road	Install closed drainage system Placeholder	Funding Funding	\$85,000.00	21	9
153	2020		Regrade area and support railroad abutment	Funding	\$225,000.00	4	1
154	2020	River Ridge - Villa Road	Placeholder	Funding	\$40,000.00	6	1
155	2020	Rivers End - Bynum Place	Placeholder	Funding	\$1,000.00	18	11
156	2020	Rockland Mills Pond	Placeholder	Funding	\$50,000.00	4	4
157	2020	Rose Hill - 16 Crimson King Drive	Install ditch	Funding	\$13,600.00	27	10
158	2020	Salem Woods - 9 Linette Court	Placeholder	Funding	\$1,000.00	26	11
159	2020	Sedgley Farms - Stone Barn Lane	Placeholder	Funding	\$35,000,00	4	4
160	2020	Sharpley - 722 to 726 Foulkstone Road	Placeholder	Funding	\$50,000,00	12	4
161	2020	Sherwood Forest Stream Restoration	Stream restoration	Funding	\$130,000.00	7	. 5
162	2020	Shipley Road and Wilson Road Drainage	Placeholder	Funding	\$50,000.00	6	5
163	2020	Simonds Gardens Park Drainage	Drainage improvements	Funding	\$243,500.00	16	2
164	2020	Southwood - Slashpine Circle	Placeholder	Funding	\$15,000.00	22	8
165	2020	Spring Creek - 246 Labrador Lane	Install closed drainage system	Funding	\$37,700,00	9	14
166	2020	Stenning Woods - 302 Hadley Court	Placeholder	Funding	\$30,000.00	22	8
167	2020	Stonefield – 21 Mica Street	Regrade ditch	Funding	\$37,500.00	9	14
168	2020	Summer Hill - 2 Jaymar Drive	Placeholder	Funding	\$1,000.00	26	11
169	2020	The Ridge - Sleepy Hollow Court	Install underdrain and grade	Funding	\$26,350.00	22	4
170	2020	Timber Farms - Timber Wood Blvd.	Install underdrain and grade	Funding	\$34,100.00	26	11
171	2020	Timber Farms - West Hummock Lane	Placeholder	Funding	\$50,000.00	26	11
172	2020	Tybrook and Woodland Park Drainage Study	Study	Funding	\$25,000.00		
173	2020	Tybrook - Frann Road	Drainage improvements	Funding	\$6,000.00	4	7
174	2020	Upper Pike Creek Road Stream Restoration	Placeholder	Funding	\$60,000.00	22	4
175	2020	Villages at Fairview Farm - 19 Fairview Avenue	Placeholder	Funding	\$20,000.00	8	10
176	2020	Village of Red Lion Creek	Placeholder	Funding	\$30,000.00	15	12
177	2020	Weber Tract - Lloyd Place	Placeholder	Funding	\$40,000.00	10	5
178	2020	Webster Farms - 1115 Webster Drive	Placeholder	Funding	\$20,000,00	6	5
179	2020	Weldin Farms - 1506 Turkey Run Road	Regrade ditch	Funding	\$11,700.00	6	5
180	2020	Wellington Hills - Pierson Drive	Placeholder	Funding	\$30,000.00	10	8
181	2020	West Cedar Heights - 326 Clyde Street	Install closed drainage system	Funding	\$50,000.00	19	9
182	2020	Westhaven - Willing Way	Placeholder	Funding	\$50,000.00	4	4
183	2020	Westover Chase - Moorfield Turn	Install closed drainage system	Funding	\$17,600,00	12	4
184	2020	Westover Hills - 702 to 704 Hopeton Road	Install closed drainage system	Funding	\$82,000.00	4	4
185	2020	Westover Hills - Hopeton Road	Clean ditch	Funding	\$23,900.00	4	4
186	2020	Westover Woods - Sarah Court	Clean channel	Funding	\$18,100.00	26	11
187	2020	Westridge - 512 Thorndale Drive	Install ditch	Funding	\$26,600.00	12	8
188	2020	Windy Hill - 34 Ferncliff Drive	Placeholder	Funding	\$10,000.00	24	9
	_	Woodland Run Pond	Placeholder		\$1,000.00	26	11
189	2020	Yorklyn Ridge - 3 Yorkridge Trail	Install cutoff swale	Funding Funding	\$63,100.00	12	4
191	2019	1109 Clayton Greenspring Road	Placeholder	Funding	\$1,000.00	11	14
191	2019		install closed drainage system	Funding	\$20,200,00	12	4
192	2019	1163 Valley Road Drainage 1515 Dexter Corner Road	Placeholder	Funding	\$1,000.00	11	14
					\$12,500.00		14
194	2019	1920 Clayton Delaney Road Afton - 2603 Fairhope Road	Repair Eerosion	Funding			5
195	2019		install closed drainage system	Funding	\$45,500.00	10	
196	2019	Alapocas - 17 and 19 Alapocas Road		Funding			4
197	2019	Alapocas - Granite Road Drainage	Placeholder	Funding	\$1,000.00	4	1
198	2019	Ashbourne Hills - 30 East Avon Drive	Placeholder	Funding	\$1,000.00	7	4
199	2019	Augustine Ridge Drainage	Install closed drainage system	Funding	\$36,200.00	4	-
200	2019	Black Diamond Road  Breezewood - Noble Court & Newland Court	Install closed drainage system	Funding	\$98,900.00		14
201	2019		Placeholder	Funding	\$1,000.00		11
202	2019	Brookmeade - 8 Waxwing Court	Install trench drain and closed drainage system	Funding	\$36,600.00		7
203	2019	Chatam - 2401 Brookshire Drive	Placeholder	Funding	\$1,000.00		5
204	2019	Chelsea Estates - 107 Talbot Drive	Placeholder	Funding	\$1,000.00		13
205	2019	Christiana Village - Barnaby Street City of Wilmington - Helen Chambers	Placeholder Placeholder	Funding	\$1,000.00		3
		Playground Drainage					
207	2019	Covered Bridge Farms - 5 Trotters Turn	Placeholder	Funding	\$275,000.00		8
208	2019	Estates of Red Lion Fairway Falls	Clear and grade open space Placeholder	Funding Funding	\$10,000.00 \$1,000.00		12
210	2019	Faulkland Woods - 2301 Woods Road	Install trench drain	Funding	\$66,400.00		7
ZIU	1 4013	I galvigur AAOOR2 - 520T AAOOR2 MOGR	material deficit drain	Funding	\$1,000.00		9

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
212	2019	Graylyn Crest - 1813 Jaybee Drive	Install closed drainage system	Funding	\$15,700.00	6	
213	2019	Gwinhurst - Laurel Avenue	Place trench drain and closed drainage system	Funding	\$40,000.00	7	1
214	2019	Hickory Woods - 651 Clifton Drive	Placeholder	Funding	\$1,000.00	15	12
215	2019	Hickory Woods - North Hickory Drive	Clean and regrade ditch	Funding	\$114,700_00	27	12
216	2019	Lynnfield - Homewood Rd. and Ridgeland Rd.	Placeholder	Funding	\$1,000.00	6	5
217	2019	Monterey Farms - 856 Reybold Drive	Regrade and clean ditch	Funding	\$32,900.00	5	13
218	2019	Mt. Zion Cemetery Drainage	Placeholder	Funding	\$1,000.00	4	4
219	2019	North Grant Avenue	Repave strret to address drainage issues.	Funding	\$63,000.00	4	1
220	2019	Oak Ridge - 3703 Oak Ridge Road	Reinstall swale and replace headwalls	Funding	\$88,000.00	22	4
221	2019	Odessa National - 220 - 224 Alloway Place	Placeholder	Funding	\$1,000.00	9	14
222	2019	Paper Mill Farms - 8 Ranch Court	Stabilize slopes	Funding	\$62,500.00	23	8
223	2019	Pencader Village - Garvey Lane	Placeholder	Funding	\$1,000.00	25	10
224	2019	Rambleton Acres Drainage	Clear area and install channel	Funding	\$158,000,00	5	13
225 226	2019	Stoney Batter Condominium Drainage Thornwood - Spur Ridge Court	Create two outfalls and stabilize eroded areas Placeholder	Funding	\$36,500.00	22	4
227	2019	Village of Lindell	Placeholder	Funding	\$1,000,00 \$1,000,00	27 21	10
228	2019	Village of Red Lion Creek	Placeholder	Funding Funding	\$1,000.00	15	9
229	2019	Westwoods - 311 Blue Jay Drive	Install underdrain	Funding	\$29,600.00	12	12
230	2019	Yorklynn - Center for the Creative Arts	Placeholder	Funding.	\$1,000.00	8	4
231	2018	Asbury Chase Drainage	Placeholder	Funding	\$1,000.00	9	12
232	2018	Beau Tree Stormwater Pond	Stormwater pond rehabilitation	Funding	\$17,250.00	10	. 5
233	2018	Brandywood - 2133 Brandywood Drive	Install closed drainage system	Funding	\$27,000.00	10	5
234	2018	Cambridge Gardens - 24 Beacon Lane	Install closed drainage system	Funding	\$22,400.00	5	13
235	2018	Cardiff - 3203 & 3205 Landsdowne Drive	Closed drainage system	Funding	\$10,950.00	10	5
236	2018	Christ The Teacher Stormwater Pond	Placeholder	Funding	\$1,000.00	27	10
237	2018	Christine Manor - 101 Mason Drive	Stabilize eroded area.	Funding	\$5,000.00	23	8
238	2018	Colonial Woods - Brandywine Boulevard	Remove and replace deteriorated curb	Funding	\$50,000.00	12	5
239	2018	Country Woods - 202 Timber Knoll Drive	Place swale	Funding	\$18,500.00	15	13
240	2018	Fox Hunter Crossing - 401 Draper Drive	Install catch basin and regrade swale	Funding	\$22,500,00	8	10
241	2018	Guyencourt Road Drainage	Placeholder	Funding	\$1,000.00	12	4
242	2018	Heather Woods - 5 Pine Court	Install closed drainage system	Funding	\$18,200,00	26	11
243	2018	Hickory Woods - Clifton Drive	Placeholder	Funding	\$1,000.00	-15	12
244	2018	Hockessin Glen Stormwater Pond	Placeholder	Funding	\$1,000.00	12	4
245	2018	Holly Oak Terrace - 1217 Washington Place		Funding			
0.45	2040	North Hills Marris Board Bolta B. In to	Install concrete gutter		\$26,700.00	6	1
246	2018	North Hills - Marsh Road - Brighton Road Drain		Funding	\$82,500.00	1	1
247	2018	Northshire - Graywood Road  Pyles Lane and Pigeon Point Road Ditching	Placeholder	Funding	\$1,000.00	7	5
240	2010	r yies care and rigeon rount Road Ditching	Placeholder	ruliding	\$1,000.00	16	22
249	2018	Springfields - Charles Drive	Placeholder		\$1,000.00	5	13
250	2018	Sycamore Gardens - Brewster Drive	Clean and regrade ditch	Funding	\$16,700.00	24	9
251	2018	Valley Run - Thistle Court	Placeholder	Funding	\$1,000.00	10	5
252	2018	Village of Becks Pond - Becks Woods Road	Placeholder	Funding	\$1,000,00	15	12
253	2018	Wellington Meadows - Cromell Court & St. Thomas Lane	Placeholder	Funding	\$1,000.00	26	11
254	2018	Whethersfield - Daniels Place	Placeholder	Funding	\$1,000,00		13
255	2018	Wrangle Hill Estates - 124 Carlotta Drive	Install a grass swale	Funding	\$7,150.00		12
256	2017	Timber Farms - 623 Timber Wood Blvd.	Install closed drainage system	Funding	\$25,100,00		11
257	2017	3323 Silverside Road	Install closed drainage system	Funding	\$36,500.00		5
258	2017	Devonshire - Rockfield Drive	Install closed drainage system	Funding	\$37,500.00		5
259	2017	Drexel - 3210 Drexel Drive	Install closed drainage system	Funding	\$12,800.00		5
260	2017	Fox Fire - Foxfire Drive	Stabilize eroded area	Funding	\$5,800.00		4
261	2017	Massey's Church Tax Ditch	Tax ditch maintenance	Engineering	\$24,000.00		14
262	2017	Drawyer's Branch Tax Ditch	Tax ditch maintenance	Engineering	\$60,000.00		10
263	2017	Jefferson Farms Tax Ditch	Tax ditch maintenance	Engineering	\$20,000.00		2
264	2017	1038 Fieldsboro Road	Clean out ditch. Install crossroad pipes	Engineering	\$27,000.00		14
265	2017	Bristol Place Drainage	Install closed drainage system	Funding	\$25,300.00		12
266	2017	Caravel Farms - 255 Benjamin Drive	Grade and clean out ditch.	Funding	\$23,200.00		12
267	2017	Caravel Farms - 5 Congress Drive	Grade and clean out ditch.	Funding	\$30,900.00		12
268	2017	Castleshire - Dandenog Drive	Stabilize eroded areas	Funding	\$15,000.00		7
269	2017	Ballymeade Drainage	Placeholder	Funding	\$1,000.00		5
270	2017	Afton - Fairhope Road	Placeholder	Funding	\$1,000.00		-5
271	2017	Northgate	Placeholder	Funding	\$1,000.00		5
272	2017	A-Street Ditch Project	Placeholder	Funding	\$1,000.00		2
273	2017	Barretts Run Ponds	Placeholder	Funding	\$1,000.00		11
274	2017	Becks Pond	Placeholder	Funding	\$1,000.00		11
275	2017	Chapelcroft - Burnett Drive	Armor bank with rip rap	Funding	\$6,500,00		5
276	2017	City of New Castle - Harmony Street	Placeholder	Funding	\$1,000.00		12
277	2017	City of New Castle - Stuyvesant Avenue	Placeholder	Funding	\$1,000.00		12
278	2017	City of New Castle - West Third Street	Placeholder	Funding	\$1,000.00		12
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## 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
279	2017	Cotswold Hills	Placeholder	Funding	\$1,000.00	22	8
280	2017	Elmwood Pond	Placeholder	Funding	\$1,000,00	24	9
281	2017	Grantchester Ponds	Study	Funding	\$5,000.00	22	8
282	2017	Holly Oak Terrace - 3 Brookside Place	Replace failed pipe	Funding	\$20,500,00	6	1
283	2017	Leatherems Run Improvements	Placeholder	Funding	\$1,000.00		
284	2017	Lukens Drive - Zenith	Placeholder	Funding	\$1,000.00	17	2
285	2017	Owls Nest Road Drainage	Placeholder	Funding	\$1,000.00	12	4
286	2017	Owls Ridge Pond	Placeholder	Funding	\$1,000.00	12	4
287	2017	Perch Creek Ponds	Placeholder	Funding	\$1,000.00	27	10
288	2017	Westbrite - Westbrite Court	Placeholder	Funding	\$1,000.00	10	5
289	2017	Windy Hills - Dillwyn Road	Install underdrain	Funding	\$10,000,00	24	9
290	2017	Woods Road Tax Ditch	Placeholder	Funding	\$1,000.00	15	12
291	2017	185 Blackbird Station Road	Placeholder	Funding	\$1,000.00	11	14
292	2017	Brandywine Park Improvements	Placeholder	Funding	\$1,000.00	4	3
293	2017	City of Wilmington Drainage Improvements	Drainage and flooding problems in Wilmington	Funding	\$0.00		
294	2015	Boxwood Road	Flood study	Study	\$10,000.00	13	7
295	2016	Guthie Tax Ditch	Tax ditch maintenance	Engineering	\$55,000.00	27	10,12
296	2016	Countryside Farms Tax Ditch	Tax ditch maintenance	Engineering	\$30,000.00	27	12
297	2016	David's Corner Tax Ditch	Tax ditch maintenance	Engineering	\$102,000,00	9	14
298	2016	130 Upper Pike Creek Road	Flood study	Study	\$120,000.00	21	9
299	2016	600 N. DuPont Parkway	Install curb	Funding	\$12,500.00	17	12
300	2016	Beacon Hill - East Court	Install closed drainage system	Funding	\$38,500.00	10	5
301	2016	Channin - 2501 Ruthwell Road	Recommend a study	Funding	\$5,000.00	10	5
302	2016	Christina River - Christiana Flood Study	Flood study	Funding	\$42,000.00	18	13
303	2016	Country Creek - 444 Barley Drive	Extend sump pump discharge to existing system	Funding	\$8,100.00	26	11
304	2016	Coventry - Dunsinane Drive	Install closed drainage system	Funding	\$25,400.00	18	13
305	2016	Governor Printz & Rolling Road	Install closed drainage system	Funding	\$39,000,00	6	1
306	2016	Harmony Hills - Kingsley Drive	Install closed drainage system	Funding	\$44,000,00	21	9
307	2016	Norwegian Woods - Penney Lane	Install trench drain	Funding	\$13,000,00	26	11
308	2016	Rolling Meadows - 900 & 902 Clydesdale Drive	Clean and restore drainage ditch	Funding	\$24,800.00		12
309	2016	Rolling Meadows - 908 Clydesdale Drive Rutherford - 4 Rolling Drive	Replace driveway pipe	Funding	\$5,500.00	15	12
310	2016	-	Install closed drainage system	Funding	\$74,000.00		9
311	-	LITTLE MILL CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$2,750,000,00		3,4,7
312		NAAMANS CREEK WATERSHED NAAMANS WATERSHED PROJECTS	PROJECTS IDENTIFIED IN THE NAAMANS CREEK	Funding	\$750,000.00	7,10 7,10	1,5
	_		FLOOD ABATEMENT STUDY				
314	_	RED CLAY CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$250,000.00		4,7,8,9
315 316		WHITE CLAY CREEK WATERSHED PIKE CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$250,000,00	12,17,18,19,21,22,	4,7,8,9 4,7,8,9
	-					24	
317 318		SHELLPOT CREEK WATERSHED SHELLPOT CREEK- STORM WATER	FLOODING PROBLEMS IN WATERSHED AREA DEVELOP LAND FOR STORMWATER CONTROL	Funding	\$1,100,000.00		1,2,5
319		MANAGEMENT  CHRISTINA CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$300,000.00	2,3,4,5,12,13,16,17, 18,19,23,24,25,26,2 7	2,3,7,8,9,10,11,1 13
320		DRAGON RUN CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$150,000.00	12,22	4,8
321	2012	2217 Pleasant Valley Road	Channel erosion and cleaning	Funding	\$25,000.00	27	10
322	2003	ABSALOM JONES DRAINAGE PHASE II	WALL REPAIR AND DRAINAGE IMPROVEMENTS OUTLETTING TO STREAM UNDER CEDAR AVE	Planning	\$700,000.00		9
323		WILMINGTON SOUTH DRAINAGE	DRAINAGE PROBLEMS IN WATERSHED	Planning	\$250,000.00	16	2
324	2003	MILL CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA		\$300,000.00		4,7,8,9
325	2006	RIVER PARK CONDOMINIUM 1100 LORE AVENUE	STABILIZE DRAINAGE CHANNEL WITH BOULDER WALL AND RIPRAP	Funding	\$87,000.00		1
326	2004	WILMINGTON - WEBB ST.	STUDY FLOODING PROBLEMS	Funding	\$1,450,000.00	3,4	1,3,4
327	2014	Brairwood - Briar Road	Install closed drainage system that ties into DelDOT's	Funding	\$26,650.00		5
328	2014	Caravel Farms - West Savannah Drive	syste. Recommend a study be done.	Funding	607.000.00	27	40
	2014	Devon - Rosetree Court		Funding	\$37,200.00		12
329	2014		Install inlets with pipe.	Funding	\$26,200.00		5
330	-	Elwin Manor - Godwin Drive	Erosion Repair at pipe outlet	Funding	\$14,500.00		10
331	2014	Jamison Corner Road	Placeholder	- II	\$1,000.00		12
332	2014	Naamans Creek - Brandywine LL Post & Rail Farms - Old School House Road	Modify drainage system to correct problem.  Install swales to convey runoff to DelDOT's system.	Funding	\$250,000.00		10
				1			
334	2014	Sharpley - Whitby Road	Replace curb and install 2 new drainage inlets	Funding	\$32,288.00	12	4
335	2014	Shellpot Creek - Flood/Drainage Study Cardiff, Woodbine and Tarleton	Study for FEMA Map Revision	Funding	\$24,300.00		5
336	2014	St. Georges Heights - Hybridge Avenue	Redirect swale to Colton Meadows	Funding	\$18,500.00	9	14
337	2014	The Oaks - Split Rail Lane	Clear & grub evasives. Needs wetlands permit	Funding	\$12,400.00		11
338	2014	Wilmington - 9th Avenue	Repair catch basin	Funding	\$4,500.00	2	3
339	2014	Wilmington Marsh Wetlands Project	Wetland rehabilitation	Funding	\$100,000.00	2	3

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
340	2014	Woodburne - Wildfire Lane	Install closed drainage system	Funding	\$30,200.00	5	13
341	2015	2018 Marsh Road	Remove and replace failed pipe and catch basin.	Funding	\$14,900.00	7	5
342	2015	Brandywood - Valley Avenue	Install closed drainage system	Funding	\$37,900.00	10	5
343	2015	Brennan Estates - Sarah Circle	Install underdrain along Sarah Court	Funding	\$62,000.00	27	10
344	2015	Chalfonte - Landon Drive	Install closed drainage system.	Funding	\$44,500.00	10	5
345	2015	Chestnut Hills Estates - 66 E. Stephen Drive	Clean out channel, remove tree and sediment	Funding	\$37,900.00	24	11
346	2015	Christiana - E. Main Street	Study on flooding conditions in Christiana,	Funding	\$50,000.00	18	13
347	2015	Christiana Green - Old Baltimore Pike	Placeholder	Turiding	\$1,000.00	26	11
	2015	Fairway Falls - Stream Stabilization	Stream Stabilization	Funding	\$210,000.00	21	4
348				unung	\$1,000.00	22	8
349	2015	Grantchester - Findail Drive	Placeholder	e 11			
350	2015	Hillcrest - Beverly Place	Install swale in back yard	Funding	\$10,400,00	6	1
351	2015	Magazine Ditch	Placeholder		\$1,000.00	16	2
352	2015	Marrows Road - Marrows Court-Chaucer Drive	Study with City of Newark	Funding	\$50,000.00	24	11
353	2015	Marshallton Heights - Overlook Avenue	Clear & grub ditch remove sediment and armor with riprap.	Funding	\$29,500.00	19	7
354	2015	New Castle - Battery Park	Drainage improvements in the park	Funding	\$25,000.00	17	12
355	2015	Old Baltimore Pike (1205 & 1211)	Stabilize channel with riprap.	Funding	\$29,900.00	25	10
356	2015	Pleasant Hills - Kentucky Avenue	Install closed drainage system that ties into DelDOTs.	Funding	\$65,000.00	19	9
257	2015	Red Mill Forms 14 to 20 Andrian Dand	Popular oranion with hank stabilization	Funding	\$62,900.00	24	9
357	2015	Red Mill Farms - 14 to 20 Andries Road	Repair erosion with bank stabilization.				
358	2015	Rutherford - 123 & 125 Rolling Drive	Install closed drainage system	Funding	\$61,600.00	18	9
359	2015	Saint Georges - Church Street	Replace driveway pipe and regrade as needed.	Funding	\$13,600.00	15	12
360	2015	Upper Pike Creek Road	Study on flooding conditions.	Funding	\$36,000.00	22	4
361 362	2015	Vineyards Maintenance Corporation Wilmington - 2401 Paper Lane	Install underdrain from rear yard to existing catch basin. Placeholder	Funding	\$12,800,00	7	5
			Placeholder		\$1,000.00	18	13
363	2015	Wilton - 19 Blyth Court		- H			
364	2015	Windy Hills -314 North Dillwyn Road	Install slot drain and outlet into back yard.	Funding	\$18,000,00	24	9
365	2016	1010 Red Lion Road	Placeholder		\$1,000,00	15	12
366	2016	130 Upper Pike Creek Road	520 ft. of stream bank stabilization.	Funding	\$120,000.00	21	9
367	2016	202 East 6th Street	Placeholder		\$1,000.00	16	12
368	2016	600 N. DuPont Parkway	Install curb	Funding	\$12,500.00	17	12
369	2016	770 Blackbird Station Road	Placeholder		\$1,000.00	11	14
370	2016	Addicks Estates - 26 Marion Avenue	Placeholder		\$1,000.00	10	1
	2016		Placeholder	1	\$1,000.00	4	7
371		Anglesey - Harlech Drive		Funding	\$38,500.00	10	5
372	2016	Beacon Hill - East Court	Closed drainage system to tie-in roof drains	Funding			
373	2016	Benton - 15 Benton Court	Install closed drainage system	Funding	\$38,000.00	10	5
374	2016	Brandywine Falls Raceway Rehabilitation	Repair raceway	Funding	\$90,000.00	4	1
375	2016	Christianstead Pedestrian Bridge	STABILIZE STREAM BANKS WITH RIPRAP	Funding	\$45,000.00	23	8
376	2016	Commodore Estates II - 106 Bakerfield Drive	Placeholder		\$1,000.00	9	12
377	2016	Dunleith - Bunche Blvd	Placeholder		\$1,000.00	16	2
378	2016	Dunleith - Morehouse Drive	Placeholder		\$1,000.00	16	2
379	2016	Dunleith - Oval Circle	Placeholder		\$1,000.00	16	02
380	2016	Grande View Farms - Bullen Drive	Clean ditch		\$100,000.00	9	10
		Woodland Park - Glenoak Road		Study	\$50,000.00	4	7
381	2016	The state of the s	Drainage study		\$460,000.00	21	9
382	2016	Woodrose - Rose Circle CALF RUN WATERSHED	Stabilize banks STUDY BANK STABILIZATION PROBLEMS AND	Funding Funding	\$250,000.00	15	12
_			IMPLEMENT SOLUTIONS DESIGN AND CONSTRUCT SECONDARY	Funding	\$200,000.00	10	1
384		BRIDLESHIRE FARMS	SPILLWAY TO POND				
385		ARMY CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$50,000.00	19	7
386		BRANDYWINE CREEK WATERSHED	SEDIMENT CONTROL	Funding	\$120,000,00	5,17,18	1,2,13
387		BUTTONWOOD CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA -TIDE GATE REPLACEMENT	Funding	\$217,500.00	1,2,4,6,10,12	1,2,3,4
388		BACK CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$500,000.00	16,17	2
389		AUGUSTINE CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$50,000.00	22	8
390		Red Clay Creek Watershed - Hyde Run	Streambank stabilization & erosion control for water quality	Funding	\$50,000.00		2 & 12
391	2013	Rogers Road - Community Presbyterian Church	Remove sediment and debris from the pond along with increasing the ponds capacity	Funding	\$168,000.00	16	2
392	2013	Chelsea Estates - Mark Drive/Louise Road	Install underdrain to intercept spring that freezes on roadway.	Funding	\$71,200.00	17	13
202	2012	Hackesia Valley Falls - Barries Mary	Realign reshape and stability suitable shaped	Eunding	\$23,300.00	22	4
393	2013	Hockessin Valley Falls - Peoples Way	Realign, reshape and stabilize existing channel.	Funding			
394	2013	Wilmington - 6 to 12 Main Street	Eliminate drainage problem in street.	Funding	\$76,700.00	4	4
395	2013	Alapocas - Edgewood Road	Placeholder		\$1,000.00		4
396	2012	1117 Bohemia Mill Road	Drainage problem	Funding	\$110,500.00	8	10

## 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
397	2012	3097 New Castle Avenue	Redefine and improve drainage flow adjacent to 3097 and install closed drainage system behind units 233 to 239 Mansion Parkway	Funding	\$40,800.00	16	2
398	2012	3110 Old Limestone Road	Install closed drainage system of pipe and inlets from exisitng DelDOT C.B.	Funding	\$42,600.00	21	9
399	2012	Caravel Woods - 102 Savannah Drive	Reconstruct roadside swale	Funding	\$9,600.00	27	12
400	2012	Chalfonte - 2305 Berwyn Drive	Install pipe system with inlets & connect rear roof drains.	Funding	\$15,450,00	10	5
401	2012	Chatham - 1204 Windon Drive	Redirect sump pump outlet to DelDOT's drainage system.	Funding	\$15,000.00	6	5
402	2012	Chestnut Hills Estates - Merion & Davies	Clear & grub, remove sediment and replace any damaged concrete gutter	Funding	\$48,500.00	24	11
403	2012	Christiana Green - 504 Blacksmith Lane	Construct swale in backyards of 506, 504, 502 & 500 and adjust fences.	Funding	\$5,100.00	26	11
404	2012	Elmwood - Marie Court & Spectrum Drive	install 2 lawn inlets with underdrain that ties into existing C.B. Repair C.B.	Funding	\$25,500.00	24	11
405	2012	English Creek - 1993 Carol Drive	Install underdrain under curb.	Funding	\$28,850.00	21	9
406	2007	GEORGE READ VILLAGE GRANDE VIEW FARMS-WELLINGTON	FENCE REPAIRS REESTABLISH DRAINAGE DITCH AND ALIGN TO PIPE	Funding	\$6,500.00	25	8
407	2006	GRANDE VIEW FARMS-WELLINGTON WAY Grears Acres - 923 Grears Corner Road	CROSSING OF RT. 13	Funding Funding	\$19,100.00 \$11,800.00	9	12
408	2012	Hillcrest - 305 & 307 Woodsside Avenue	Drainage & swale improvements Install berm with swale and concrete curb.	Funding	\$11,800.00	6	14
410	2012	Hockessin Valley Falls - 502 Wilson Drive	Replace with larger pipe	Funding	\$37,000.00	22	4
411	2005	HYDE PARK	FLOODING PROBLEMS IN AREA	Funding	\$150,000.00	19	7
412	2012	Lakeside at Riversedge - 107 Einstein Drive	Line channel from Providence Drive to pond with riprap. Permit may be required.	Funding	\$30,800.00	18	11
413	2012	Lancashire - Inwood Road	Parcels being considered for flood remediation.	Funding	\$1,280,000.00	7	5
414		New Castle County Flood Studies	Flood studies to revise poorly mapped floodplains in New Castle County	Funding	\$250,000.00	5	13
415	2012	Old Kennett Road near Way Road	Install underdrain	Funding	\$12,600.00	12	9
416	2008	PLEASANT VALLEY FARMS - FERRIS COURT	REALIGN AND STABILIZE A SECTION OF MUDDY RUN	Funding	\$136,600.00	27	10
417	2012	Ramblewood Pond	Water quality assessment & Improvement project	Funding	\$175,000.00	10	5
418	2012	Salem Woods - 1 White Drive	Debris pit remediation	Funding	\$100,000.00	26	11
419	2009	SHIPLEY ROAD - 1501	INSTALL A GRASS SWALL FROM A NEW DELDOT VALLEY GUTTER ACROSS TO THE EXISTING STREAM	Funding	\$13,180.00	6	5
420	2012	Stockdale - 11 Palace Drive	Construct swale with berm behind 11 Palace Drive & adjacent properties.	Funding	\$29,900.00	7	1
421	2012	Sunset Lake - Sediment Control & Habitate Enhancement	Water quality	Funding	\$225,000.00	24	10
422	2012	Sycamore Gardens - 3 Medill Lane	Install underdrain under sidewalk	Funding	\$17,000.00	24	5
423	2012	The Timbers - 7 Magnolla Court	Remove and replace damaged sections of concrete channel.	Funding	\$13,000.00	10	5
424	2012	Thornwood - 2 Hazelwood Drive	Request letter was dated June 16, 2010, but was received Oct. 4, 2010.	Funding	\$21,800.00	25	10
425 426	2012	Village of Lindell - 2315 & 2313 St. Francis Street Wedgewood - 128 Dutton Court	Repair or replace deteriorated timber retaining wall.  Install basin with pipe connection to existing basin	Funding	\$71,000.00	21	9
427		Weldin Wood - Weldin Circle Drainage	Install closed drainage system.	Funding	\$99,700.00		5
428		Willow Run - 10 Harrow Place	Construct swale/berm	Funding	\$6,200.00		7
429	2012	Brookside - Keller Road	Clear & regrade swale	Funding	\$38,000.00		11
430	2007	DIXIE LINE ROAD - NORTH OF I-95	RESOLVE FLOODIING ISSUES	Funding	\$25,000.00		10
431		DEBRIS PITS	DEBRIS PIT REMEDIATION		\$150,000.00		
432		RUTHERFORD - W. RUTHERFORD DR. #102-#104	SOLUTION TO BE DETERMINED	Funding	\$13,000.00	18	9
433	2004	ROSEVILLE PARK - BOXWOOD AVENUE	RECONSTRUCT BOXWOOD AVE. BETWEEN OAK AVE. AND CHESTNUT AVE.	Funding	\$134,000.00	21	9
434	2010	ROBSCOTT MANOR 36 & 38 GILL DRIVE	REPLACE DRIVEWAY PIPE AT EAST CHESTNUT HILL ROAD	Funding	\$26,800.00		12
435	2006	ROLLING MEADOWS-HACKNEY DRIVE	INSTALL PIPE IN ROAD SIDE SWALE	Funding	\$15,400.00	15	12
436	2006	NAAMANS MANOR - VALLEY & CLEARVIEW AVES	INSTALL CURBING AND CLOSED SYSTEM FOR DRAINAGE CONTROL	Funding	\$93,400.00	7	5
437	2007	NAAMANS MANOR - VALLEY AVENUE #2204	SOLUTION TO BE DETERMINED	Funding	\$66,800.00	7	5
438	2005	RIVERS END WEST DRIVE	REPLACE CURB TO PROPER GRADE TO PREVENT RUNOFF ONTO DRIVEWAY	Funding	\$20,500.00	5	11
439	2008	BARLEY MILL COURT STREAM STABILIZATION	STREAM IMPROVEMENTS	Funding	\$105,000.00	12	4

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
440	2007	ARDEN - MARSH ROAD	INSTALL DRAINAGE SYSTEM TO CONTROL RUNOFF FROM MARSH ROAD	Funding	\$83,200.00	7	5
441	2005	RIVERS END EAST DRIVE	INSTALL UNDERDRAINS AND CATCH BASINS TO RESOLVE DRAINAGE PROBLEMS IN YARD	Funding	\$20,800.00	5	11
442	2010	RED CLAY WATERSHED SURFACE WATER CONSTROL FOR AI DUPONT HS	AREA TO BE REGRADED TO PROVIDE FOR POSITIVE RUNOFF	Funding	\$52,000.00	12	4
443	2011	Buckingham Heights - 2116 Buckingham Road	Install closed drainage system behind homes.	Funding	\$28,200.00	7	5
444	2007	BROOKSIDE - KENMAR DRIVE	REESTABLISH AND STABILIZE DRAINAGE DITCH	Funding	\$37,000.00	24	11
445	2006	BROOKMEADE - SKYLARK ROAD	INSTALL CATCH BASINS AND PIPE IN STREET	Funding	\$17,700.00	4	7
			TO CONTROL SURFACE RUNOFF		\$167,800.00	21	
446	2010	Brookhaven - 45 to 71 Green Ridge Road	Install closed drainage system behind homes.  DRAINAGE IMPROVEMENTS TO CONTROL	Funding			9
447	2007	ROCKLAND - MT, LEBANON ROAD	FLOODIING	Funding	\$350,000.00	12	4
448		CHESTNUT RUN	STUDY AND MODELING TO DEVELOP SOLUTIONS TO FLOODING	Funding	\$45,000.00	24	11
449	2006	CANNONSHIRE-CANNON RUN #16 & #18	INSTALL CLOSED DRAINAGE SYSTEM AND SWALE, CONNECT TO DELDOT	Funding	\$34,100.00	25	10
450	2008	AIRPORT ROAD # 168 - # 174	CONSTRUCT DETENTION POND AND LATERAL DITCHING	Funding	\$153,000.00	17	13
	2006	ALDAN DADY - HOMESTEAD BOAD	TO CONTROL RUNOFF	-	\$37,000.00	2	
451 452	2006	ALBAN PARK - HOMESTEAD ROAD STONEY CREEK WATERSHED	REPLACE FAILED STORM SEWER SYSTEM  EROSION CONTROL ALONG STREAM	Funding Funding	\$15,600.00	21	3 4
453		RED LION CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$50,000.00	5	13
454	1	PLUM RUN WATERSHED	EROSION AND STORMWATER CONTROL	Funding	\$125,000.00	1-13; 15-27	1,14
455		DRAWYERS CREEK WATERSHED	FLOODING PROBLEMS IN WATERSHED AREA	Funding	\$50,000.00	18	9
			REGIONAL STORMWATER MANAGEMENT				
456	2009	SOUTH WILMINGTON - CENTRAL PARK	STUDY	Funding	\$150,000.00	2	3
457	2008	BECHTEL PARK - WALKING PATH BRIDGE	SOLUTION TO BE DETERMINED	Funding	\$36,600.00	10	5
458	2006	BELLE TERRE	STORMWATER MANAGEMENT POND	Funding	\$50,000,00	12	4
459	2006	BRANDYWINE SPRINGS MANOR-	INST. CLOSED DRAINAGE AND SWALE TO ELIMINATE BASEMENT FLOODING & EROSION	Funding	\$48,900.00	4	7
460	2006	BREEZEWOOD II - W. SHADY DRIVE	EXTEND EXISTING PIPE. CONSTRUCT DRAINAGE INLET- INSTALL PROTECTION GRATE	Funding	\$19,500.00	24	11
461	2007	BRANDYWOOD - VALLEY ROAD	FLOODPROOFING, BOULDER BANK	Funding	\$66,800.00	10	5
462	2006	BRANDYWOOD - MAJESTIC DRIVE	STABILIZATION, SWALE CONSTRUCTION CONSTRUCT DRAINAGE SWALES TO DIRECT	Funding	\$9,700.00	10	5
_	-		RUNOFF AWAY FROM HOUSE STRUCTURE INSTALL DRAINAGE SYSTEM TO ALLEVIATE				
463	2007	FAULKLAND ROAD # 2203	RUNOFF ENTERING HOUSE	Funding	\$37,600.00	4	7
464	2003	DUNLEITH - ANDERSON DR.	INSTALL UNDERDRAIN, CONNECT TO CB ON BUNCHE BOULEVARD	Funding	\$52,000.00	16	2
465	2009	SOUTH WILMINGTON - WEST	NEIGHBORHOOD WIDE DRAINAGE ISSUES	Funding	\$200,000.00	16	2
466	i	SILVERBROOK RUN	STUDY FLOODING PROBLEMS		\$100,000.00	12	4
467	2008	HARMONY WOODS - DIMINISH DRIVE #140	INSTALL CLOSED DRAINAGE SYSTEM TO ELIMINATE STANDING WATER	Funding	\$28,800,00	18	9
468	2010	HARMONY WOODS - DIMINISH DRIVE #150	INSTALL CLOSED DRAINAGE SYSTEM BEHIND	Funding	\$25,400.00	18	9
469	2008	HARMONY WOODS - MINOR COURT	148 & 150 INSTALL CLOSED DRAINAGE SYSTEM IN REAR YARD.	Funding	\$32,200.00	18	9
409	2008	HARMONY WOODS - PIANO DRIVE #	CONNECT TO DOT ON DIMINISH DR. CONSTRUCT SWALES TO RELIEVE STANDING	runding	\$32,200.00	10	,
470	2008	106	WATER	Funding	\$13,100.00	18	9
471	2006	HARMONY HILLS - KINGSLEY DRIVE	INSTALL DRAINAGE SYSTEM IN REAR YARDS TO ELIMINATE FLOODING	Funding	\$44,400.00	21	9
472	2006	HYDE RUN EROSION CONTROL	EROSION CONTROL AND STABILIZATION MEASURES	Funding	\$110,000.00	12	7
473	2005	ELSMERE - TOWN WIDE	ANALYZE DRAINAGE INFRASTRUCTURE, SUGGEST IMPROVEMENTS TO REDUCE FLOODING	Funding	\$66,000.00	13	7
474	2006	ELSMERE - LOCUST AVENUE	STUDY & DEVELOP SOLUTION TO DRAINAGE	Funding	\$15,000.00	13	7
	2006		PROBS BEHIND 242 TO 268 LOCUST AVE.  REPLACE EXISTING C&G WITH FULL HEIGHT				7
475	2006	COOPER FARMS - YALE ROAD	C&G TO CONTROL RUNOFF FROM YALE ROAD INSTALL SWALE AND BERM TO DRIECT RUNOFF FROM	Funding	\$29,900.00	19	
476	2005	COOPER FARM - LOCUST ROAD #15	SCHOOL PROPERTY TO A JUNCTION BOX CONVERTED TO A CATCH BASIN	Funding	\$9,400.00		7
477	2006	CHRISTIANA BRACE	STORMWATER MANAGEMENT POND	Funding	\$100,000.00	24	11
478	2005	DELPARK MANOR - REESE COURT	INSTALL CLOSED DRAINAGE SYSTEM.	Funding	\$59,800.00	19	9
479	2005	CEDARCREST	FLOOD DAMAGE REPAIRS	Funding	\$20,000.00	19	7
480	2006	CHANNIN - RAMBLEWOOD DRIVE	REPLACE FAILED DRAINAGE SYSTEM	Funding	\$26,800,00	10	5
	2006	CHRISTIANA ACRES-MEADOW LANE	CLEAN AND RESHAPE TIDAL DRAINAGE DITCH	Funding	\$65,000.00		13

#### 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
482	2008	CARAVEL HUNT - RICE DR.	SOLUTION TO BE DETERMINED	Funding	\$14,700.00	15	12
483	2000	WESTOVER HILLS- DRAINAGE- 5 LOCATIONS	STUDY OF DRAINAGE PROBLEMS IN WESTOVER HILLS	Funding	\$615,000,00	4	4
484	2006	WESTOVER HILLS-WESTOVER CIRCLE	STUDY AND DEVELOP SOLUTIONS AND ESTIMATES TO CORRECT RETAINING WALL AND SLOPE FAILURES	Funding	\$71,000.00	4	4
485	2007	WESTOVER HILLS - SECT. B	REPAIR /REPLACE DETERIORATED AND DAMAGED SIDEWALKS	Funding	\$31,100.00	4	4
486	2001	WILMINGTON - ROCKFORD & IVY/BANCROFT MILLS	INVESTIGATE DRAINAGE AND POLLUTION PROBLEMS	Funding	\$80,000,00	4	1
487	2007	PINE VALLEY FARMS - WHITE PINE DRIVE	REPLACE PIPE UNDER ROAD WITH ONE OF ADEQUATE CAPACITY	Funding	\$48,400.00	9	14
488	2006	VILLAGE OF LINDELL - GREENWAY	CONSTRUCT GREENWAY PATH	Funding	\$427,400,00	21	9
489	2005	SHELLBURNE DRAINAGE IMPROVEMENTS	CONST, STUDY SOLUTION TO DRAINAGE PROBS ON CARWELL, PASC10, SHELLBURNE	Funding	\$240,500.00	6	5
490	2007	RADNOR GREEN - OSAGE ROAD	REESTABLISH SWALE WITH BERM ALONG SCHOOL PROPERTY TO CONTROL RUNOFF	Funding	\$80,800.00	7	1
491	2010	OLD CAPITOL TRAIL - 4400	REPAIR STREAM BANK EROSION	Funding	\$12,800.00	19	7
492	2009	NEWPORT GAP PIKE - 3704	RIPRAP PROTECTION AND WATER MANAGEMENT	Funding	\$68,000.00	22	4
493	2007	MORNINGSIDE - MORNING GLEN LANE # 2	REESTABLISH DRAINAGE DITCH AND STABILIZE WITH RIPRAP TO PREVENT EROSION	Funding	\$120,000.00	22	4
494	2009	MORNINGSIDE - MORNING GLEN LANE # 30	SOLUTION TO BE DETERMINED	Funding	\$16,200.00	22	4
495	2010	SHIPLEY ROAD - 1919	INSTALL RIPRAP PROTECTION AT CRITICAL POINTS ALONG BANK AND PIPE OUTLET	Funding	\$60,500.00	6	5
496	2007	FOX WOODS - FOX DRIVE # 106 (REINSTATE)	INSTALL DRAINAGE SYSTEM TO RELIEVE BACKYARD FLOODING	Funding	\$22,500.00	24	9
497	2007	GRAYLYN CREST - GRAYLYN ROAD	STABILIZE STREAM BANKS WITH RIPRAP	Funding	\$49,000,00	6	5
498	2006	COLONIAL PARK-ATKINS AVENUE	INSTALL CLOSED DRAINAGE SYSTEM TO RELIEVE BACK YARD FLOODING AND PONDING	Funding	\$40,400.00	13	3
499	2006	EDINBURGH VILLAS-SHETLAND WAY	INSTALL DRAINAGE SYSTEM IN REAR YARDS TO ELIMINATE STANDING WATER PROBLEMS	Funding	\$49,900,00	5	13
500	2009	Fairfax - 201 Pinehurst Drive	Install closed pipe system with inlet.	Funding	\$26,000.00	12	4
501	2008	MARSHALLTON - DUNCAN AND GREENBANK ROAD	REPLACE GUARDRAIL AND RETAINING WALL WITH CONCRETE CHANNEL AND DECORATIVE PARAPET	Funding	\$205,000.00	19	7
502	2008	GREENBANK ROAD # 610	INSTALL CLOSED DRAINAGE SYSTEM TO ELIMINATE BANK EROSION	Funding	\$24,400.00	19	7
503	2008	HOCKESSIN VILLAGE	IMPLEMENT STUDY RECOMMENDATIONS	Funding	\$100,000.00	20	4
504	2005	LIMESTONE HILLS - GREENWAY	REPAIR AND RESURFACE GREENWAY PATH REMOVE AND REPLACE CURB TO PROPER	Funding	\$110,000.00	20	8
505	2005	HYDE PARK - DUNCAN ROAD	GRADE. INSTALL CLOSED DRAINAGE SYSTEM	Funding	\$28,300.00	19	7
506	2005	GREEN ACRES - GRINNELL ROAD	INSTALL CLOSED DRAINAGE SYSTEM TO ELIMINATE PONDING IN REAR YARD	Funding	\$27,000.00	6	5
507	2008	LEXINGTON SQUARE - SENTRY LANE	REPAIR CATCH BASIN AND SINKHOLES. REGRADE SWALE	Funding	\$13,700.00	21	9
508	2004	WOODLAND TRAILS - DEFOE CIRCLE	INSTALL U-DRAIN SYSTEM CONNECTING TO CB ON TAYLOR DR. TO SOLVE PONDING	Funding	\$85,500.00	18	11
509	2008	STONEFIELD - BASALT STREET	CONSTRUCT DRAINAGE SWALE IN REAR YARDS FOR PROPER DRAINAGE	Funding	\$11,600.00	9	
510	2009	Stratford - 33 E. Edinburgh Drive	Install swale & lawn inlets	Funding	\$21,000.00	17	13
511	2008	WELDIN WOODS - WELDIN CIRCLE	INSTALL UNDERDRAIN AND SWALE TO DRAIN PROPERTY TO STREAM	Funding	\$77,700.00	6	5
512	2008	STONEFIELD - OLIVINE CIR.	INSTALL CB AND PIPE TO DRAIN PONDING AREA CLEAR VEGETATION AND INSTALL UNDERDRAIN TO	Funding	\$7,600.00	9	14
513	2006	YORK FARMS-CORNWELL DRIVE	ALLEVIATE ROAD ICING CONDITIONS	Funding	\$24,800.00	15	12
514	2006	CHARTER OAKS 1	STORMWATER MANAGEMENT POND	Funding	\$35,000.00	12	4
515	2005	SOUTHWOOD	IMPLEMENT STUDY SOLUTIONS FOR EROSION AND DRAINAGE PROBLEMS ON MILL CREEK	Funding	\$200,000.00		8
516	2006	STUYVESANT HILLS	STORMWATER MANAGEMENT POND	Funding	\$100,000.00	12	4
517	2006	MENDENHALL VILLAGE 1	STORMWATER MANAGEMENT POND	Funding	\$250,000.00	22	4
518	2008	MENDENHALL VILLAGE - BEECHWOOD CIRCLE TO TALL OAKS DRIVE	SOLUTION TO BE DETERMINED	Funding	\$10,800.00		4
519	2007	FOULK WOODS - DEEPWOOD DRIVE	RESOLVE EROSION CONDITIONS	Funding	\$50,000.00	10	5
520	2008	CANNONSHIRE - GENERAL MAXWELL COURT	SOLUTION TO BE DETERMINED	Funding	\$32,700.00	25	10
521	2008	ADDICKS ESTATE 14 MARION AVE	INSTALL CURB & GUTTER WITH CLOSED DRAINAGE SYSTEM TO DIVERT RUNOFF	Funding	\$54,800.00	10	1
522	2008	HARMONY WOODS - CORONET COURT # 5	CONSTRUCT SWALE TO DRAIN STANDING WATER AREAS IN FRONT AND SIDE YARDS	Funding	\$14,800.00	18	9
523	2010	HARMONY WOODS - HARMONY CREST DR. # 123	INSTALL A CLOSED DRAINAGE SYSTEM	Funding	\$26,100.00	18	9

## 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
524	2007	LUMS POND ESTATES III - HOPE COURT EAST	INSTALL DRAINAGE SYSTEM TO REDIRECT FLOW ALONG BACK OF PROPERTY	Funding	\$16,500.00	15	12
525	2008	FAULKLAND WOODS - WOODS ROAD	INSTALL NEW ROAD DRAINAGE SYSTEM	Funding	\$357,000.00	4	7
526	2006	THE MILLRACE (ROCKLAND)	DRAINAGE IMPROVEMENTS TO RESOLVE FLOODING PROBLEMS	Funding	\$344,400.00	10	4
527	2005	WESTMINSTER	DETENTION BASIN	Funding	\$100,000.00	4	7
528	2006	WESTGATE FARMS-WESTGATE DRIVE	INSTALL UNDERDRIAIN SYSTEM, WITH INLETS,	Funding	\$75,700.00	4	7
	2000	WEBSTER FARMS - WEBSTER DRIVE	DISCHARGING INTO STREAM IN PARKLAND	i didilig	\$75,700.00		
529	2008	#1119 - #1121	INSTALL CLOSED SYSTEM TO RELIEVE FLOODING CONDITIONS	Funding	\$54,000.00	6	5
530	2006	CLELAND HEIGHTS-CLELAND COURSE	PE TO EVALUATE FLOODING PROBLEMS AND DEVELOP SOLUTIONS	Funding	\$15,000.00	13	3
531	2005	CONCORD MANOR - BETHEL STREET	INSTALL DRAINAGE SYSTEM TO RELIEVE BACK YARD PONDING	Funding	\$20,800.00	12	5
532	2007	CONCORD MANOR - BROOKFIELD AVE. & MARIANNA DRIVE	STUDY TO DEVELOP SOLUTION TO FLOODING OF INTERSECTION	Funding	\$30,000.00	12	5
533	2008	DARTMOUTH WOODS - STURBRIDGE DRIVE	INSTALL CLOSED DRAINAGE SYSTEM TO ELIMINATE SUMP PUMP DISCHARGE INTO	Funding	\$34,500.00	10	5
534	2002	DEERHURST - PIERCE RD	STREET INSTALL UNDERDRAIN AND CATCH BASINS	Funding	\$29,300.00	6	5
	2002	The state of the s	INSTALL CLOSED DRAINAGE SYSTEM TO CONTROL	Turiding	\$25,500.00		3
535	2008	DEVONSHIRE - ALTAMONT DRIVE	RUNOFF DIRECTED AT BASEMENT WALL	Funding	\$12,500.00	10	5
536	2006	DRUMMOND FARMS - DRUMMOND FARMS LANE	INSTALL SLOTTED DRAIN IN CURB AND BUILD CB TO ELIMINATE FREEZING WATER ON ROAD	Funding	\$39,400.00	22	4
537	2010	MEADOWOOD - 118 FORSYTHIA DRIVE	INSTALL CLOSED DRAINAGE SYSTEM IN REAR YARDS.	Funding	\$20,900.00	21	9
538	2005	LINDAMERE - NORTH RD	REMOVE PCC SLAB AND BUILD CATCH BASIN	Funding	\$7,400.00	6	1
539	2007	HOCKESSIN HUNT - BRIDLE PATH EAST	REDEFINE AND STABILIZE DRAINAGE CHANNEL	Funding	\$17,400.00	22	4
540	2006	HICKORY WOODS - CHRISSY COURT & SHAGBARK COURT	REESTABLISH DRAINAGE SWALE	Funding	\$48,500.00	27	12
541	2006	GREEN VALLEY-6TH STREET	CONSTRUCT SWALE TO CONVEY RUNOFF OUT OF REAR YARDS	Funding	\$11,800.00	21	9
542	2008	MIDDLETOWN-SLOOP LANE	INSTALL CLOSED DRAINAGE SYSTEM WITH DROP STRUCTURES TO CHECK EROSION	Funding	\$34,000.00	9	10
543	2006	MILLCREEK ROAD # 2802	INSTALL UNDERDRAIN SYSTEM TO CONTROL SPRING ACTIVITY	Funding	\$14,900.00	21	7
544	2010	1125 Old Baltimore Pike	Install lawn inlet in back yard of 704 Springcreek Ct. with pipe that outlets into SWMP	Funding	\$12,700.00	25	10
545	2006	ASHBOURNE HILLS - 8 RUBY DRIVE	REPLACE FAILED STORM SEWER PIPE. INSTALL CB TO CONTROL STREET RUNOFF	Funding	\$15,000.00	7	1
546	2008	BELLEFONTE - PROSPECT AVENUE	IMPLEMENT STREAM STABILIZATION AND EROSION CONTROL MEASURES	Funding	\$58,600.00	6	1
547	2006	BELLEFONTE-BEESON ROAD	INSTALL CLOSED DRAINAGE SYSTEM TO	Funding	\$47,300.00	6	1
548	2006	BRANDON-SMITH LANE	RELIEVE BASEMENT AND GARAGE FLOODING INSTALL CLOSED SYSTEM TO ELIMINATE	Funding	\$30,700.00	10	5
549	2005	POSSUM HOLLOW ROAD	PONDING IN REAR YARD OF 2313 SMITH LN. SURVEY, INVESTIGATE, AND PREPARE PLANS AND ESTIMATES FOR DRAINAGE	Funding	\$30,000.00	21	8
550	2006	NORTHCREST - WALTER DRIVE	IMPROVEMENTS INSTALL SWALE TO DRAIN REAR YARDS	Funding	Ć24 000 00	10	-
551	2006	SCOTTFIELD - BROADFIELD DRIVE	INSTALL SWALE TO DRAIN REAR YARDS  INSTALL CLOSED DRAINAGE SYSTEM WITH	Funding	\$24,800.00	10	-5
			SWALES TO RELIEVE PONDING	Funding	\$15,500.00	24	11
552		VALLEY RUN - BUTTERNUT LANE	INSTALL CLOSED DRAINAGE SYSTEM ALONG VALLEY INSTALL COMBINED DRAINAGE/UNDERDRAIN	Funding	\$14,000.00		- 5
553	2006	WEMBLEY-WEMBLEY DRIVE WESTWOOD MANOR-BEECHWOOD	SYSTEM TO SOLVE SPRING & ICING PROBS.	Funding	\$39,100.00	7	1
554	2006	DRIVE	REPLACE FAILED DRAINAGE SYSTEM  INSTALL CLOSED DRAINAGE SYSTEM TO	Funding	\$30,300.00	7	5
555	2006	WOODMILL II-W. WOODMILL DRIVE	CONTROL RUNOFF	Funding	\$24,900.00	21	9
556	2005	EAGLE GLEN-WINBURNE DRIVE	INSTALL CLOSED DRAINAGE SYSTEM TO ELIMINATE SWALE DISCHARGE ONTO PAVEMENT	Funding	\$10,800.00	18	13
557	2008	EDENRIDGE - MT, LEBANON ROAD # 721	INSTALL CATCH BASIN AND PIPE TO DRAIN LOW AREA IN REAR YARD	Funding	\$41,000.00	12	4
558	2007	HICKMAN ROAD	CONSTRUCT CURB AND SIDEWALK ALONG HICKMAN RD.	Funding	\$33,200.00	10	1
559	2008	THE TIMBERS - MAGNOLIA COURT	INSTALL CATCH BASIN AND PIPE TO ELIMINATE PONDING IN LOW AREA OF CURB	Funding	\$19,600.00	10	5
555							
560	2004	WOODS - SIOUX COURT	INSTALL U-DRAIN TO RELIEVE PONDING. CONNECT TO DELDOT.	Funding	\$17,000.00	18	9

## 21st Century Fund

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
562	2005	WEST BRANCH -EAST MILL STATION DRIVE	STUDY AND DEVELOP AND IMPLEMENT SOLUTION FOR STABILIZING FAILING BOULDER RETAINING WALL	Funding	\$220,320.00	23	8
*E		Woodland Run - 12 Buttonwood Court	Place topsoil in low area & regrade to drain.	Funding	\$2,600.00	22	4
Е		CANNONSHIRE-CANNON RUN #41-#43	REPLACE FAILED CURB	Funding	\$2,100.00	6	1
Е		Chestnut Hills Estates - 13 to 17 E. Stephens Drive	Install closed drainage system behind 13, 15 & 17 E. Stevens Drive	Funding	\$71,000.00	18	9
E		Deer Run Road - 145	Replace three driveways with elliptical arch pipes.	Funding	\$160,000.00	18	9
E		FAIRWINDS - GREEN STREET	SOLUTION TO BE DETERMINED	Funding	\$90,000.00	4	7
E		LIFTWOOD - WELDIN ROAD	PLACE TOPSOIL, REGRADE, SEED & MULCH TO ELIMINATE LOW AREAS IN FRONT YARD	Funding	\$14,000.00	4	7
Е		Linden Heath - 6 Inverness Court	Construct a grass swale along side yard thru to back yard and 3LBGC open space.	Funding	\$13,500.00	4	7
Е		LONGVIEW FARMS - SOUTH OVERHILL COURT	STUDY AND DESIGN SOLUTION TO FAILING RETAINING WALL	Funding	\$85,000,00	6	5
E		MIDDLE RUN CROSSING GREENWAY	CONSTRUCT GREENWAY PATH CONNECTING STARLING STREET TO PARK ON EBENEZER CHURCH ROAD	Funding	\$497,800,00	22	8
E		MILL CREEK- HOCKESSIN TO LANTANA	GREENWAY	Funding	\$463,800.00	25	10
E		MILL CREEK-PIERSONS RIDGE TO BRACKENVILLE	STUDY FLOODING PROBLEMS, PREPARE PRELIMINARY DESIGN, PERMITS, IMPLEMENT IMPROVEMENTS	Planning	\$1,200,000.00	10	5
E		MONTGOMERY WOODS - MONTGOMERY WOODS DR. # 616	CONSTRUCT SWALE TO DRAIN PONDING WATER ON PROPERTY	Funding	\$17,800.00	10	5
Е		RADNOR GREEN - NEWCOMB COURT	CONNECT SUMP PUMP DISCHARGE TO DEDOT STORM SEWER SYSTEM	Funding	\$9,900.00	13	3
E		Stage Road - 33 Stage Road	Install approx. 150 If of curbing.	Funding	\$16,300,00	12	5
Е		THE LANDINGS TWIN C LANE	STUDY TO RESOLVE DRAINAGE ISSUES IN BACKYARDS	Funding	\$25,000.00	10	5
E		Village of Lindell - 2111 Lindell Blvd	Recommend a concrete retaining wall.	Funding	\$68,400.00	6	5
		SUBTOTAL** - New Castle County Active Proje	ects		\$ 43,044,938		

<sup>\*</sup> Too low of a priority for ranking

<sup>\*\*</sup> Does not include costs of proposed FY2020 projects contained in Appendix D

**Kent County** 

Rank	Year	Project	Remarks	Status	Esti	mated Total	Representative	Senatoria
1	2014	Viola Phase II drainage improvements	various drainage improvements within the town	Construction	5	60,000	District 30, 34	District
2	2018	Prospect Tax Ditch Main	Approx. 20,000' of tax ditch dip out	Construction	5	50,000	30, 34	15, 16
3	2003	Willow Grove Road / Blackwell	Approx 5000' of ditch reconstruction	Construction	\$	36,000	29	15 & 18
	2005	VIII ON CHOICE ROOM / DISCRIPCIN	Dip out of full system; replace maintenance pipes as	Construction	-	30,000	23	15
4	2017	Leipsic Tax Ditch Dip Out	needed; soil testing required for ACOE permits.  Ready for Construction	Construction	\$	30,000	28	14
5	1999	Bowers Beach Road / Mallek Phase II	Approx, 1000' of 6 inch Field Tile and Inlet Ready for Construction	Construction	\$	60,000	33	16
6	2013	Shaws Corner Road / Miller / Tracy	Replace approx. 400' of 18" pipe, reconstruct approx. 400' of channel outlet	Construction	\$	20,000	11	15
7	2011	Lane View Drive, Scenic Acres / Sak	reconstruct approx, 600' of yard swale	Contracting	\$	6,000	30	18
8	2015	Wheatleys Pond Road / Durham	700' of Tile Drain	Contracting	\$	20,000	29	15
9	2012	Kent County Bay Beach Communities Drainage Studies / Improvements Phase V - South Bowers	Reconstruction of tidal ditch to provide an outlet to S. Bowers Beach Road.	Permitting	\$	83,280	32	16
LO	2018	Hudson Branch Rd / Taubler	Repair Storm drain outlet and bank repair	Engineering	\$	100,000	33	16
1	2007	Tarr Ditch, City of Dover	Improvements to drain system system and	Funding	\$	8,000,000	32, 31	17
2	2017	Gravelly Run T.D. Main / Severson	Replace crossing	Engineering	\$	75,000	11	15
3	2003	Pearsons Corner Road / Detweiler	Approx. 7000' of ditch reconstruction	Engineering	\$	75,000	11, 29	15
	2000	Silver Lake Water Management Project -	Design, construct and improve the drainage and					
4	2000	DelTech Terry Campus	stormwater system within DelTech Terry campus	Engineering	\$	350,000	31	17
5	2016	4948 Halltown Rd / Butz	repair pipe from rt 8 to the Tappahanna Main and fill wash	Engineering	\$	20,000	11	15
6	2016	4938 Halltown Rd. / Carey	Pipe replacement	Engineering	\$	100,000	11	15
7	2002	Hidden Acres	Stream Improvements	Permitting	\$	40,000	29	15
В	2017	241 S. Shore Dr. / Green	600' road side ditch with pipe replacements and rock		\$	50,000		
,	2017	241 3. Shore Dr. / Green	outlet protection.	Engineering	13	60,000	34	16
9.1	2012	Kent County Bay Beach Communities Drainage Studies / Improvements Phase II - Pickering Beach	Project PB_04 in Bay Beach Drainage Study - Installation of approximately 1,250 feet of road side ditch and 50 feet of storm drain near the intersection of Pickering Beach Road and entrance to Little Creek Wildlife Area. All Bay Beach Project will be completed with on the same construction contract.	Engineering	\$	50,318	32	16
.2	2012	Kent County Bay Beach Communities Drainage Studies / Improvements Phase III - Kitts Hummock	Project KH_06 in Bay Beach Drainage Study - Install drainage inlets and 100 feet of storm drain with backflow prevention. All Bay Beach Project will be completed with on the same construction contract.	Engineering	\$	53,044	32	16
3.3	2012	Kent County Bay Beach Communities Drainage Studies / Improvements Phase IV - Kitts Hummock	Project KH_07 in Bay Beach Drainage Study - Install 7- feet of roadside drainage with riprap protection. All Bay Beach Project will be completed with on the same construction contract.	Engineering	\$	18,500	32	16
9	2012	Kent County Bay Beach Communities Drainage Studies / Improvements Phase V - Kitts Hummock	Project KH_09 in Bay Beach Drainage Study - Maintain roadside ditches from the intersection of Bay Drive to Community entrance. All Bay Beach Project will be completed with on the same construction contract.	Engineering	\$	83,280	32	16
20	2019	Alley Corner Rd. / Loman	Install 160' pipe and two catch basins	Engineering		\$15,000	29	15
1	2019	Bush Dr. / Morris	Construction of Open ditch with pipe crossing	Land Rights		\$10,000	29	17
2	2019	Shore Shore Drive / DelDOT	Repair Catchbasin	Scoping		\$8,000	34	16
3	2013	Walnut Shade Road / Lavender	Clean and or flush pipe and outlet of pipe	Scoping	\$	10,000	34	16
4	2008	Seeneytown Road / Peet	Approx. 4000' of ditch reconstruction	Engineering	\$	24,000	11	15
5	2010	Houston, Town of, drainage improvements Phase I	Improve draiange outlets for various low areas in and around the Town of Houston, Phase I is for Breeders Crown	Land Rights	\$	90,000	33	18
3	2017	54 West Huntington / Lundy Phase I	replace approx. 300' of pipe	Contracting	S	30,000	29	15
7	2006	Greenbriar Road / Penneypacker	Flood study	Engineering	\$	15,000	11	15
3	2015	Pearsons Corner Road / Trice	1,500' of Pipe and catch basins	Engineering	\$	100,000	29	15
)	2015	1778 Peachtree Run / Walsh	4000' Open ditch construction	Discontinue?	5	40,000	34	16
)	2018	Smyrna Leipsic Rd / Scuse	Approx. 450' storm drain & 3 catch basins	Engineering	\$	100,000	28	14
1	2017	Willow Grove Rd / Pratt	1000' 6" tile and well	Scoping	\$	10,000	30	15
2	2012	Voshells Cove, Richard Blvd. / Gibson	Approx. 2000' of channel reconstruction	Scoping	\$	30,000	29	15
3	2011	Persimmon Park Place	approx. 4000' of channel reconstruction	Scoping	\$	675,000	28	17, 14
4	2002	Pearsons Corner Road / Sbriglia	Approx. 5000' of ditch reconstruction	Land Rights	5	10,000	11, 29	17, 14
5	2011	Plymouth Road / Langley drainage Improvements	approx. 750' of channel reconstruction	Scoping	\$	8,000	30	15
6	2011	Plymouth Road / Miller drainage improvements	approx. 450' of channel reconstrcution	Scoping	\$	5,000	30	15
7	2004	Barbara Blvd., Breezewood / Cerbone	4000' of ditch reconstruction	Engineering	\$	37,800	34	16
8	2008	Bryn Zion Road / Timber Mills / Kreiger	Replace approx. 1200' of deteriorated storm drain, install approx. 4 catch basins	Scoping	\$	200,000	11	15
9	2004	Raughley Hill Road / Faircloth	Approx, 2400' of ditch reconstruction	Scoping	\$	25,000	30	18
0	2017	N. Little Creek Rd. / Denham	Pipe replacement	Scoping	\$	50,000	32	17
		W. Denneys Road, near Maidstone Branch						
	2007	Road / Blose / Foltz	reconstruct approx 4000' of channel outlet	Scoping	\$	80,000	29	15

Kent County

Rank	Year	Project	Remarks	Status	Estimated Total  Cost	Representative District	Senatorial District
40	2013	Abbotts Pond Road / Gallagher	Reconstruct approx, 1000' of channel outlet, replace	Scoping	\$ 20,000	30	18
42	2010	Hazelwood Subdivision drainage improvmemts	DelDOT crossing pipe roadside swale or pipe along private road, improve drainage outlet for Hazelwood subdivision	Scoping	\$ 40,000	28	14
44	2011	Pearsons Corner Road / Durham	approx, 2000' of channel outlet	Scoping	\$ 20,000	29, 11	15
45		Andrews Lake Road / Baker	Approx. 4000' of channel reconstruction	Scoping	\$ 40,000	33	16
46		Dyke Branch Road / Kelty	approx. 900' of channel reconstruction	Scoping	\$ 6,480	29	17
47	2011	West Big Woods Road / Lafon	approx, 500' of channel reconstruction	Scoping	\$ 5,000	28	15
48	2011	West Evens Road / Seeley	approx. 2500' of channel reconstruction	Scoping	\$ 30,000	34	16
49	2007	Burnite Mill Road / Dearman	reconstruct approx 4000' of channel outlet	Scoping	\$ 60,000	30	15
50	2011	Hidden Pond, Felton	approx, 2000' of channel reconstruction,	Scoping	\$ 10,000	30	15
51	2017	751 Oak Point School Rd / Slack	1000' ditch reconstruction and regrade yard.	Scoping	\$ 10,000	11	15
52	2012	North Rehoboth Blvd., Milford / Kent Sussex Industries	Bank stabilization	Scoping	\$ 35,000	33	18
53	2012	Rosebowl Road / Seeney	Approx. 2000' of channel reconstruction	Scoping	\$ 30,000	29	15
54	2012	South State Street / Young	Storm drain maintenance	Scoping	\$ 20,000	34	16
55	2012	Star Hill Village, Lingo Drive / Freeman	Storm drain maintenance	Scoping	\$ 35,000	34	16
56	2012	Windward Drive, Lakewind / Whidby	Subdivision storm drain maintenance	Scoping	\$ 30,000	33	16
57	2013	Big Ditch Road / Szewczyk	reconstruct approx. 600' of channel outlet	Scoping	\$ 5,000	11	15
58	2013	Carpenters Bridge Road / Wooters	Reconstruct approx. 2000' of channel outlet	Scoping	\$ 20,000	33	15, 18
59	2013	Clapham Road / Roe	Reconstruct approx. 1000' of channel outlet	Scoping	\$ 15,000	33	16
60	2013	Deep Grass Lane / Griffith	Reconstruct approx, 4000' of channel outlet	Scoping	\$ 40,000	30, 33	18
61	2013	Dickerson Street/Clayton/Pazdalski	reconstruct approx, 600' of channel outlet	Scoping	\$ 5,000	28	14
62	2013	Evens Road / Stevens / Dill	repair / replace 6" tile outlet	Scoping	\$ 7,500	34	16
63	2013	Little Mastens Corner Road / Alexander	Reconstruct approx. 1000' of channel outlet	Scoping	\$ 10,000	30	15
64	2013	Paradise Alley Road / Wright	Solution to be determined	Scoping	5 20,000	30	15
65	2013	Twin Eagles Farms / Caldwell	Reconstruct approx. 7000' of channel outlet	Scoping	\$ 70,000	11	15
66	2013	Willow Grove Road / Blawn	reconstruct approx, 1000' of channel outlet	Scoping	\$ 15,000	34	15
67	2014	Bethesda Tax Ditch / Shetzler	bank stabilization	Scoping	\$ 15,000	11	15
68	2014	Bowers Beach Road / Tuthill	reconstruct approx. 300' of channel outlet	Scoping	\$ 5,000	33?	16
69	2014	Bryn Zion Road / Tackett	Install approx. 300 feet of new storm drain	Scoping	\$ 20,000	11	14
70	2014	Thompsonville Road / Cohee	reconstruct approx. 3500' of channel outlet	Scoping	\$ 25,000	33	16
71	2014	Vining Road, Pharsalia	bank stabilization / stream restoration	Scoping	\$ 20,000	34	16
72	2014	Woodmill Drive / Hill	reconstruct approx. 2500' of channel outlet	Scoping	\$ 20,000	31	17
73	2004	Midtree Drive / Murphy	600' of ditch reconstruction	Scoping	\$ 6,000	33	18
74	2004	North Little Creek Road / Maurer / Miller	Replace approx. 1200' of storm drain	Scoping	\$ 36,000	32	17
75	2005	Swain Ave., Tara Subdivision / Murray	Reconstruct approx. 1200' of road side swale within Tara subdivision	Scoping	\$ 24,000	33	16
76	2011	Owls Nest Road / Payes	approx, 800' of channel reconstruction	Scoping	\$ 5,000	11	15
77	2006	Commerce Street, Cheswald / Caldwell	Repair approx. 500' of deteriorated storm drain	Scoping	\$ 65,000	29	15
78	2006	Karl Drive, Eberton / Towery	Remove debris from existing ditch	Scoping	\$ 3,000	29	17
79	2006	Seven Hickories Road / Towery	Reconstruct approx. 1000' of existing ditch	Scoping	\$ 12,000	29	15
80	2007	Carlson Way	reconstruct approx. 3500' of channel outlet	Scoping	\$ 60,000	29	15
81	2007	North Little Creek Road / Desanto	install approx, 400' of storm drain, reconstruct approx, 300' of channel	Scoping	\$ 20,000	32	17, 16
82	2008	Paradise Lane / Pallum / Looney	Beaver dam removal	Scoping	\$ 5,000	31	17
83	2009	Millington Road / Walsh	approx. 1000' of outlet reconstruction	Scoping	\$ 12,000	11	15
84	2010	McGinnis Pond Road / Wilgus	reconstruct approx. 1000' of channel outlet	Scoping	\$ 12,000	33	16
85	2010	Millchop Lane / Perry	approx 500' of ditch reconstruction	Scoping	\$ 6,000	34	16
86	2010	Mt. Friendship Road / Miller	pipe replacement and ditch reconstruction	Scoping	\$ 20,000	29	15
87	2010	Westville Road / Hurd	approx 500' of ditch reconstruction	Scoping	\$ 4,000	29	15
88	2011	Moose Lodge Road / Larrimore drainage improvements	approx. 2500' of channel reconstruction	Scoping	\$ 30,000	34	16
89	2011	Woods Haven / New Wharf Road drainage improvements	approx. 2000' of channel reconstruction, replace/repair portion of storm drain system	Scoping	\$ 65,000	33	18
90	2015	155 Carlisle Dr. / Macolley	Install yard basin and 200' of pipe out to road side pipe.	Scoping	\$ 20,000	29	15
91	2015	128 Rocky Meadows Ln. / Reyna	3000' open ditch construction	Scoping	\$ 20,000	29	17
92	2015	1463 Hartly Rd. / Hightman	200' Open ditch construction	Scoping	\$ 1,000	29	15
	_		1		\$ 8,000	29	15
93	2015	272 Mt, Friendship Rd. / Sebastianelli	1000' tile replacement.	Scoping			
94	2015	3 Vigil Ct. / Jester	Yard basin and 200' of 6" tile,	Scoping	\$ 2,000	29	15
95	2015	307 Gettysburg Rd. / Burton	Repair existing pipe joint.	Scoping	\$ 1,000	31	17
96	2015	50 Bulldog Dr. / Gondeck	3000' Open ditch construction.	Scoping	\$ 20,000	32	17
97	2015	53 East St. / Hutchins	Pipe replacement with catch basin.	Scoping	\$ 50,000	29	15
98	2015	566 Upper King / Mathews	4000' open ditch construction and 500' pipe replacement	Scoping	\$ 70,000	34	15
99	2015	651 Strauss Ave. / Pinder	Replace 450' of 24" CPP, install three catch basins	Scoping	\$ 40,000	29	15
	-	<del></del>					16
100	2015	27 Wildwood Road / Fairfield Farms / Ott	Streambank Stabilization on Isaac's Branch	Scoping	\$	34	
101	2015	7435 Pearsons Corner Rd. / Scott	600' Open ditch construction.	Scoping	\$ 3,000	29	16
102	2015	75 Aspencade Dr. / Washington	800' Open ditch construction. Total disposal of debris.	Scoping	\$ 10,000	34	15
103	2015	86 Logan Dr. / Johnson	500' open ditch construction and 90' pipe replacement	Scoping	\$ 20,000	30	15
104	2015	Still Rd / Berhaier / Storage	9,000' of Open Ditch	Scoping	\$ 45,000		15
105	2016	Tomahawk T.D / Greenwood Rd	(P-6) Bank stabilization	Scoping	\$ 40,000		18
	1 2010	Tronigua MV LID / Green Mood und	/L -ol patty graphitarion	Scoping	\$ 40,000	- 30	

**Kent County** 

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
107	2016	12338 South Dupont Hwy. / Alam	2500' Ditch reconstruction	Scoping	\$ 25,000	30	15
108	2016	703 Fence Post Ln. / Burgess	4000' Ditch reconstruction	Scoping	\$ 40,000	34	17
109	2016	2608 Hunting Quarter Rd. / Passwaters	1500' Ditch reconstruction	Scoping	\$ 10,000	30	18
110	2016	863 Peach Basket Rd. / Crouch	1500' Ditch reconstruction	Scoping	\$ 10,000	30	15
111	2016	1335 Hazlettville Rd. / Rogers	2000' Ditch reconstruction and new pipe under Rd.	Scoping	\$ 30,000	29	15
112	2016	3132 Kenton Rd. / Kaper	300' Ditch reconstruction	Scoping	\$ 3,000	29	15
113	2016	866 Sunnyside Rd. / Jones	150' Road side swale	Scoping	\$ 2,000	29	14
114	2016	52 Luther Marvel Rd. / Smith-Morlock	600' Road side ditch and pipe	Scoping	\$ 6,000	11	15
115	2016	245 Artis Dr. / Emerson	3000' Ditch reconstruction	Scoping	\$ 30,000	29	17
116	2016	861 Rothermel Rd. / Runkel	1000' Swale / Ditch	Scoping	\$ 10,000	33	18
117	2016	936 Proctors Purchase Rd. / Walker	500' Ditch reconstruction	Scoping	\$ 5,000	11	15
118	2016	844 Big Ditch Rd. / Szewczyk	900' Ditch reconstruction	Scoping	\$ 9,000	11	15
119	2016	3698 Judith Rd. / Gonzalez	4000' Ditch reconstruction	Scoping	\$ 40,000	11	15
120	2016	56 Myrtle St. / English	Back yard drainage	Scoping	\$ 30,000	28	14
121	2016	1142 Lynnbury Rd. / Knieriem	Replace old field tile	Scoping	\$ 10,000	29	15
122	2016	2887 McKee Rd. / Pruett	1000' Ditch reconstruction and pipes	Scoping	\$ 20,000	29	15
123	2016	2484 Arthursville Rd / Metheny	500' open ditch	Scoping	\$ 10,000	11	15
124	2016	414 Turkey Point Rd / Thompson	800' open ditch	Scoping	\$ 16,000	34	16
125	2016	292 Evelyndale Dr. / Ballis	2000' road side ditches	Scoping	\$ 75,000	29	17
126	2016	105 Fox Hall Dr / Posey	800' open ditch	Scoping	\$ 16,000	31	17
127	2016	219 Fox Crossing Dr. / Foltz	1000' open ditch replace 2 pipes	Scoping	\$ 30,000	11	15
128	2017	115 Stevenson Dr / McDonald	4500' open ditch in yards	Scoping	\$ 70,000	34	16
129	2017	1472 Log Cabin Rd / Peterman	4500' open ditch, pipe replacement	Scoping	\$ 35,000	33	16
130	2017	1697 Sorghum Mill Rd. / Hoffecker	600' ditch reconstruction and bank stabilization.	Scoping	\$ 20,000	34	16
	2017		+		\$ 5,000	32	16
131	2017	299 Daniel Rodney Dr. / Bryant	Pipe repair	Scoping	\$ 10,000	29	17
132	2017	4134 Dupont Hwy. / Kisner 727 Twin Willows Rd / Boyer	1700' ditch reconstruction.  100' ditch reconstruction and repair or replace old dam.	Scoping	\$ 20,000	28	14
133	2017	Carlisle Village / Palchik	350' ditch reconstruction	Scoping	\$ 2,500	29	15
	2017	Gunter Road / Hamonko	700' ditch reconstruction and replace (2) 18" X 30' pipes	Scoping	\$ 10,000	11	15
135	2017	Millchop Lane / Shuford	2000' ditch reconstuction and 200' pipe replacement	Scoping	\$ 40,000	34	16
136	2017	Pearsons Corner Rd / Mosley	1500' ditch reconstruction	Scoping	\$ 7,500	29	15
138	2017	Pearsons Corner Rd / Simpers	2300' of ditch reconstruction	Scoping	\$ 25,000	29	15
139	2017	Brook Court / Nabb	1700' Ditch Reconstruction	Scoping	\$ 15,000	11	15
140	2018	48 Joshua Dr (Church Creek Subd.)	Pipe joint repair	Scoping	\$ 5,000	33	16
141	2018	85 Laurel Dr Malago	Approx. 600' storm drain system and 5 catch basins	Scoping	\$ 125,000	32	17
142	2018	Brookview Ave / Hans	Rock outlet protection	Scoping	\$ 7,000	34	16
143	2018	Central Church Rd / Pritchett	Approx. 800' open ditch & 500' storm drain & 3 catch basins	Scoping	\$ 100,000	29	15
144	2018	Cypress Branch Rd Goodwill	Approx. 300' storm drain system and 3 catch basins	Scoping	\$ 60,000	32	16
145	2018	Fast Landing Rd / Mack	Approx, 500' open ditch	Scoping	\$ 10,000	28	14
146	2018	Gravelly Run Tax Ditch S-3 of S-12 of P-8	Approx. 800' of open ditch reconstruction	Scoping	\$ 10,000	11	15
147	2018	Heritage Dr Hutchins	Approx. 2000' open ditch	Scoping	\$ 15,000	31	17
148	2018	Janice Dr / Reinholz	Approx. 2000 open ditch	Scoping	\$ 20,000	34	16
149	2018	Marvels Crossroads TD dipout	Approx. 3200' of open ditch	Scoping	\$ 25,000	33	18
150	2018	Marydel TD Prong H Steele	Bank stabilization	Scoping	\$ 30,000	11	15
151	2018	The Mead / Cooper	100' open ditch & 200' storm drain & 2 catch basins	Scoping	\$ 50,000	33	18
152	2018	Tobacco Rd / Fulton	Approx. 600' of open ditch	Scoping	\$ 20,000	29	15
	2018	Vernon Tax Ditch	Approx. 5000' tax ditch dip out	Scoping	\$ 10,000	30	15
153	2018	Westville Rd Profaci	Approx, 1000' tax ditch dip out		\$ 10,000	29	15
154	2018		100	Scoping	\$ 15,000		
155		Woodland Beach Rd Richards	Approx. 2000 open ditch	Scoping		28	14
156	2018	Woods Edge Rd / Loeffler	Approx. 300' of yard drainage (swale or tile)	Scoping	\$ 10,000	30	15
157	2018	Woodyard Rd / Brubaker	Approx. 800' open ditch & 100' tile drainage	Scoping	\$ 40,000	30	18
158	2019	Delshire Dr. / Bastian  Elizabeth Avenue / O'Conner	Swale and/or tile construction  Replacement of Flared End Section on pipe outlet in	Scoping	\$10,000		17
159	2019		Pennwood Development	Scoping			16
160	2019	Fast Landing Road / Worshan Fulton St. / Coker	Regrading and open ditching  Reconstruction of Approximately 1,500 feet of open ditch	Scoping	\$20,000		17
161	2019		and replacment of pipe crossings.	Scoping	\$20,000		15
162	2019	Glohaven Ct. / Harvey	Backyard Drainage / reconstruct swale  Reconstruction of Approximately 2,000 feet of open ditch	Scoping	\$20,000		16
163	2019	Judith Road / Guzzie	and installation of 3 pipes.	Scoping	\$25,000	29	15
164	2019	Logan Dr. / Cooper	Reconstruction of 1,100 feet of roadside swale and repair of driveways.	Scoping	\$80,000	29	17

**Kent County** 

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
165	2019	Lynnbury Woods Road / Kern	Reconstruction of Approximately 1,000 feet of open ditch and replacment of 4 pipe crossings.	Scoping	\$80,000	29	18
166	2019	Midstate Road / George	Reconnstruction of 2,000' of rodside ditch and installation of 10 pipes	Scoping	\$40,000	33	16
167	2019	N. Erin Ave / Wright	Backyard Drainage / Tile system	Scoping	\$10,000	30	15
168	2019	Parkway Dr. / Lucas	Repair catchbasins and fill sinkhole around existing catchbasins	Scoping	\$10,000	29	17
169	2019	Pinewood Acres MHP/ Moore	Reconstruction of Approximately 2,000 feet of open ditch.	Scoping	\$12,000	29	15
170	2019	W. Denneys Rd. / Opdyke	Reconstruction of Approximately 2,000 feet of open ditch including a portion through residential yards.	Scoping	\$20,000	29	15
171	2019	West Milby St. / Benson	Reconstruction of Approximately 500 feet of open ditch.	Scoping	\$5,000	30	18
172	2019	Woodland Beach Rd / Richards	Reconstruction of Approximately 2,000 feet of open ditch and replacment of 41 pipe crossings.	Scoping	\$15,000	28	14
173	2000	Rodney Village / Abbate	Approx. 2000' of channel reconstruction	Scoping	\$ 25,000	32	17
	2004	South Dupont Hwy. / McGowan	Approx. 1600' of ditch reconstruction, replace approx. 3	Scoping	\$ 24,000	30	18
174	2004	Overlook on Silver Lake / Richardson	private crossing pipes Retrofit catch basin City of Dover ally		\$ 20,000	31	
175		Lucky Estates Subdivision drainage		Scoping			17
176	2010	Improvements	Improve draiange outlet for Lucky Estates Subdivision  Reconstruct approximately 1000' of ditch through / along	Scoping	\$ 50,000	30	18
177	2005	Dyke Branch Road / Friedman	yards into wooded wetland	Scoping	\$ 8,000	29	17
178	2011	Chesapeake Bay, Kent County, conservation initiatives	various channel and wetland restoration and creation projects	Scoping	\$ 100,000	11, 29, 30	15, 18
179	2010	Planters Woods Subdivision drainage improvements	Improve draiange outlet for Planters Woods Subdivision stormwater ponds	Scoping	\$ 30,000	29	15
180	2002	Wyoming Mill Pond Spillway / Bank Stabilization	Approx. 750' of bank stabilization	Scoping	\$ 120,000	31, 34	17
181	2013	Little Creek, Town of	reconstruct, restore, enhance approx. 6000' of channel outlet	Scoping	\$ 60,000	28	16
182	2004	Kitts Hummock Drainage Improvements - Phase II	Approximately 3000' of ditch reconstruction through marsh, petitioned to possibly form a tax ditch organization	Scoping	\$ 120,000	32	16
183	2000	Beech Drive, Eden Rock / Carson Phase II	Remove invasive species from pond and revegatate with native plants	Scoping	\$ 5,000	29	15
184	2007	Fairfield Drive / Krum Phase 2	Reestablish approx. 1000' of drainage way through yards	Scoping	\$ 75,000	34	16
185	2000	Silver Lake Water Management Project - Dover Pool	Design and construct a 200' regenerative stormwater conveyance system	Scoping	\$ 100,000	28, 31	17
186	2008	Puncheon Run Drainage & Stormwater Improvements	Stream and drainage improvements	Scoping	\$ 250,000	31, 32	16, 17
187	2011	Fox Hall / Carnoustie Road	approx, 1000' of channel reconstruction	Scoping	\$ 3,600	31	17
188	2005	Rt. 44 / Fedewa (Part of Altimus)	Reconstruct approximately 1000' of channel outlet	Scoping	\$ 6,600	11	15
189	2012	Persimmon Park Place / Blanchfield  Clayton, town of; drainage improvements	Reconfigure stormdrain system Storm drain improvement for the west side of the Town	Scoping Scoping	\$ 25,000	28	17, 14
190	2006	Phase III  Camden, West Street Drainage Improvements	of Clayton  Ditch reconstruction and storm drain improvements within the Town of Camden in the vacinity of West Street	Scoping	\$ 350,000	34	17
191 192	2017	267 Pardoners Tale Ln. / Jefferson	Pine Remin	£ì	\$ 5,000	30	15
193	2004	Rt. 44 / Alternus Phase 2	Pipe Repair Approx, 500' of ditch reconstruction	Scoping Land Rights	\$ 15,000	11	15
194	1998	South Little Creek Road / Little	Approx. 4000' of ditch reconstruction, DelDOT road crossing pipe replacement, repair and replace existing pond outlet structure	Scoping	\$ 300,000	32	17, 16
195	2010	Drake Ct., Wild Quail / Susan Cook	approx. 200'of storm drain repair	Scoping	\$ 20,000	29	15
196	2011	Wild Quail drainage improvements Phase II	replace / repair various storm drains & storm drain outlets	Scoping	\$ 150,000	29	15
197	1998	Lockwood Chapel Road / Krupka Phase 2 (Main)	Approx. 3.5 miles of ditch reconstruction	Scoping	\$ 200,000	11	15
198	2002	Apple Grove School Road, Washington / Todds Mill Road	Stream improvements	Scoping	\$ 12,000	29, 31	15
199	2002	Haziettville Road / Blann	Approx. 4000' of ditch reconstruction	Scoping	\$ 30,000	11, 29	15
200	2004	Judith Road / Sego	Approx. 6000' of ditch reconstuction, replaced three private crossing pipes.	Scoping	\$ 36,000	11	15
201	2005	Deer Track Lane / Snyder	approx. 4000' of channel reconstruction	Scoping	\$ 35,000	29	17
202	2000	Silver Lake Water Management Project	update water management pracitces for the Silver Lake watershed	Scoping	\$ 387,000	31	17
203	2010	Houston, Town of, drainage improvements Phase II	Improve draiange outlets for various low areas in and around the Town of Houston, Phase II is for Front Street	Scoping	\$ 90,000	33	18
204	2010	Houston, Town of, drainage improvements	Improve draiange outlets for various low areas in and	Scoping	\$ 90,000	33	18
205	2000	Silver Lake Water Management Project - Central Middle School	Design and construct a 200' regenerative stormwater conveyance system	Scoping	\$ 25,000	31	17
	2011	Deer Valley Road / Lear	approx. 3000' of channel reconstruction	Scoping	\$ 30,000	33	18

**Kent County** 

Rank	Year	Project	Remarks	Status	Estin	nated Total Cost	Representative District	Senatorial District
207	2012	Breeders Crown Farm, Foal Court / Roy Jones	Subdivision storm drain upgrade	Scoping	\$	25,000	33	18
208	2013	Brownsville Road / Arthur Biggs	Reconstruct approx. 2000' of channel outlet	Scoping	\$	20,000	30	15
209	2016	5402 Mud Mill Rd / Strouse	S-2-S-1-P-19 Cow Marsh T.D Pipe replacement	Scoping	\$	15,000	30	15
		SUBTOTAL - Kent County Active Projects			\$	16,995,402		

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
1	2009	Chesapeake Bay Watershed VOP	Removal of debris from degraded drainage channels utilization of the VOP program at the Sussex Community Correction Center	Construction	\$ 65,000	35, 40, 39, 37, 41, 36	18, 19, 20, 21
2	2009	Delaware Bay Watershed VOP	Removal of debris from degraded drainage channels utilization of the VOP program at the Sussex Community Correction Center	Construction	\$ 125,000	14, 20, 35, 36, 37	6, 18, 19
3	2009	Inland bays Atlantic Ocean Watershed VOP	Removal of debris from degraded drainage channels utilization of the VOP program at the Sussex Community Correction Center	Construction	\$ 167,000	14, 20, 37, 38, 40, 41	6, 19 20, 21
4	2017	Elliott-Nichols Tax Ditch Main Channel Pipe Replacements	Replacement of private crossing and driveway pipes that TD cannot afford. (1) 42" x 70', (1) 42" x 40' Ready for Construction	Construction	\$ 45,000	40	21
5	2006	Highland Acres Tax Ditch Maintenance Dipout	Replacement of stormdrain along Canary Drive	Construction	\$ 160,000	20	6
6	1997	Johnson Development Phase II	Reconstruction of existing ditch and installation of Storm Drain	Construction	\$ 1,600,000	39	21
7	2012	Silver Lake / Rehoboth, Phase 2	Improvements to outfall of Silver Lake.	Construction	\$ 225,000	14	6
8	1996	Selbyville Flood Drainage Project Phase II Railroad Avenue	Culvert replacement and drainage improvements along Railroad Avenue	Construction	\$ 250,000	41	20
9	2011	Diamond Acres / Jones Drainage Improvements	Retro Fit failed infiltration pond Ready for Construction	Construction	\$ 160,000	41	20
10	2007	Little Hill Rd / Leonard Drainage Improvements Phase I	Replacement of Culverts under Little Hill Road (422A)	Construction	\$ 70,000	40	21
11	2014	Argyle Lane / Fise / Gugerty Drainage	Remove tree in ditch and replace driveway culverts with minor dipout.	Funding	\$ 21,000	38	20
12	2015	Nanticoke Watershed Parrot Feather Eradication	Treatment program for the removal of Parrot Feather milfoil. Partnership with several tax ditches and SCD.	Funding	\$ 10,000	30, 35	18, 19
1,3	2013	Carsyljan Acres / Jordan Drainage	Reconstruct drainage in the Carsyljan Acres Development	Engineering	\$ 150,000	20	6
14	2019	Herring Branch Tax Ditch Main / Johnson / McCabe	Replacement of approximately 300 feet of stromdrain and catchbasins.	Engineering	\$75,000	41	20
15	2004	Baltimore Avenue / Cheeks Public Ditch	800 feet ditch reconstruction, pipe installation and spoil disposal	Engineering	\$ 80,000	38	20
16	2014	Oak Orchard Drainage Improvements - Phase 1	Drainage improvements to the intersection of Mercer Avenue and Forest Drive. Oak Orchard Phase 1 and Phase 4 will be completed by the same contract	Engineering	\$ 750,000	37	20
16.1	2014	Oak Orchard Drainage Improvements - Phase 4	Drainage Improvements to Oak Orchard Road and Captains Grant. Oak Orchard Phase 1 and Phase 4 will be completed by the same contract	Engineering	\$ 76,000	37	20
17	2014	Little Bay T.D. / Oceanside Pkwy Culvert Replacement	Replacement of culvert under Oceanside Pkwy.	Engineering	\$ 400,000	38	20
18	2007	Rd 550 / Harry Simiomick Drainage Improvements	2 miles of Channel Reconstruction	Engineering	\$ 140,000	39	21
19	2017	Russel Rd. / Harris	Clean out of existing ditch with possible tree removal	Engineering	\$ 50,000	35	19
20	2009	Trap Pond Rd / White Drainage Improvements	Cleanout of 1500 feet of existing ditch through woods	Engineering	\$ 40,000	40	21
21	2017	Reid / Delmar Rd	Dip out of non-functioning drainage ditch	Engineering	\$ 40,000	40	21
22	2013	Town of Bethel / Snake Road Drainage Improvements Phase I	Regrade swale and replace culvert under sailor's path	Engineering	\$ 25,000	40	21
23	2008	Bear Hole Tax Ditch / Johnson	Bank Stabilization of Prong 9 of Tax Ditch	Engineering	\$ 35,000	38	20
24	2019	Dukes Job Tax Ditch / Morris Bank Stabilization	Stabilization of the bank on the Main of Duks Jobs Tax Ditch above Prong 5	Engineering	\$60,000	40	21
25	2008	Old Rauetmack / Malone Drainage Improvement Phase II	Internal Development Drainage Improvements	Engineering	\$ 200,000	40	21
26	2019	Johnson Road (S434A) / Wojciechowski/ McCabe	Reconstruction of 3,000 feet of ditch through woods or potentially new ditch to Indian Drain Tax Ditch	Scoping	\$75,000	40	21
27	2019	Mt. Joy Road / Hoopes	New Prong to L&T Tax Ditch	Scoping	\$40,000	18	37
28	2012	Woodpecker Rd / Wollschlager Drainage Improvements	Cleanout 6000' of ditch	Scoping	\$ 60,000	30	21
29	2006	Raccoon Branch Tax Ditch Bank Stabilization	100 feet of Bank Stabilization	Engineering	\$ 40,000	40	21
30	2012	Ennis Road/ Owens Drainage Improvements	200' of Ditch Cleanout	Scoping	\$ 15,000	37	19
31	2015	Pepper Creek Tax Ditch Bank Stabilization	Stabilization of Pepper Creek downstream of Rall Road crossing on Prong 6.	Engineering	\$ 35,000	41	20
32	2019	Pusey Road / Hudson	reconstruction of approximately 5,000 feet of agricultural	Scoping	\$40,000	40	20
33	2018	Frankford Library/Green Street Drainage Improvements	drainage ditches  Replacement of approximately 300 feet of stormdrain pipe, currently 18" diameter. Private ditch needs to be cleaned as well, approx. 250'. The outlet will need to be explored to ensure the project stops at Main Street.	Scoping	\$ 75,000	38	20

Rank	Year	Project	Remarks	Status	Estimated Total  Cost	Representative District	Senatorial District
34	2018	Clearbrooke Estates / Damms	Improve swale conveyance within development and add outlet to Hearns pond. (2017-173)	Scoping	\$ 750,000	35	19
35	2014	Oak Orchard Drainage Improvements - Phase 5	Drainage Improvements to Oak Meadow subdivision,	Engineering	\$ 918,000	37	20
36,1	2012	Broadkill Beach Drainage Improvements Phase	Drainage inlet and 25 feet of storm drain with backflow prevention on Bayshore Drive, All Bay Beach Project will be completed with on the same construction contract	Engineering	\$ 37,000	36	18
36.2	2012	Broadkill Beach Drainage Improvements Phase 2	Regrade 130' of existing gravel roadway on California Avenue. All Bay Beach Project will be completed with on the same construction contract	Engineering	\$ 27,000	36	18
36.3	2012	Broadkill Beach Drainage Improvements Phase	Installation of a 50' gravel infiltration trench on Arizona Avenue. All Bay Beach Project will be completed with on the same construction contract	Engineering	\$ 40,000	36	18
36.4	2012	Primehook / Fowlers Beach Drainage Improvements Phase 1	340 feet of storm drain and inlets with backflow prevention on Shore Drive. All Bay Beach Project will be completed with on the same construction contract.	Engineering	\$ 94,000	36	18
36.5	2012	Slaughter Beach Drainage Improvements Phase	Regrade portions of Passwaters Drive and Marina Lane and install roadside drainage. All Bay Beach Project will be completed with on the same construction contract	Engineering	\$ 147,000	36	18
36.6	2004	Lewes Beach Drainage Improvements Phase 1	Installation of 130 foot gravel infiltration trench and storm drain outfall at the intersection of Fort Lewes Court and Henlopen Drive, All Bay Beach Project will be completed with on the same construction contract	Engineering	\$ 66,000	20	6
37	2014	Oak Orchard Drainage Improvements - Phase 3	Drainage improvements to the intersection of River Road, Cerise Avenue & Roberta Lane.	Engineering	\$ 951,000	37	20
38	2014	Oak Orchard Drainage Improvements - Phase 2	Drainage improvements to River Road approximately 2000 feet west of Chief Road.	Engineering	\$ 945,000	37	20
39	2006	Heritage Village / Harper	Provide an to Atlanta Devonshire Tax Ditch for a blind	Engineering	\$ 90,000	39	21
40	2005	North Drive / Doris Kowolski	ditch within the Heritage Village Development 1000' pipe with catch basins	Scoping	\$ 105,000	35	19
41	2008	Rt. 24 / Harper Fox Hollow Drainage	500' of New Pipe	Scoping	\$ 70,000	14	6
42	2014	Improvement Overbrook Shores / Frey Drainage	Install approx. 500' pipe and CB's to Carsyljan Acres TD	Engineering	\$ 150,000	20	6
43	2012	Improvements RD 207/213 Drainage Improvements	2700' of ditch clean out	Engineering	\$ 75,000	35, 36	18
44	2014	East Drive / Harvey Trip Drainage Projects	Approx. 700' of pipes and CBs and outlet structure of existing pond.	Scoping	\$ 65,000	41	20
45	2012	Bunting Tax Ditch Prong 2 Bank Stabilization	1000' of Bank Stabilization & Culvert Replacement under	Engineering	\$ 150,000	38	20
46	2014	Discount Land Rd / Carter Drainage	Line Road Addition to Prong 5 to Mirey Branch T.D. north of	Scoping	\$ 13,000	39	21
47	2015	Improvements Bay Haven Street / Scott Drainage	Discount Land Rd (S468) Drainage improvements in Roger's Haven subdivision.	Scoping	\$ 25,000	38	20
4/	2013	Improvements		эсория	3 23,000	38	20
48	2017	Whites Neck Rd / Vella	3200' of ditch reconstruction and cleanout of existing culvert expand scope to include improvemets within Whites Neck Village (S 2019-224)	Scoping	\$ 150,000	38	20
49	2012	Crestfield / Fluharty / Valentine Drainage Improvements	Placeholder while project is developed	Scoping	\$ 25,000	39	19
50	2019	Herring Branch Tax Ditch Prong 8 /Town of Frankford	Reconstruction of Prong 8 of Herring Branch Tax Ditch and improve connection with Town Infra structure	Scoping	\$100,000	41	20
51	2019	Anderson Corner Rd. / Marsh	Reconstruction of 1,500 feet ditch and culverts	Scoping	\$25,000	20	19
52	2006	Shawnee Road / Weldon	Reconstruction of existing ditch and replacement of pipes (Kovach)	Scoping	\$ 35,000	36	18
53	2008	Walker Mill Rd / Country Glenn Drainage Improvement	Drainage improvements in development	Scoping	\$ 150,000	35	19
54	2015	Ocean Way Estates - Hoffmaster Drainage Improvements	Drainage Improvements to Ocean Way Estates	Scoping	\$ 75,000	38	20
55	2013	Town of Bethel / Snake Road Drainage	3,000 feet of roadside drainage and 3000 feet of ag	Engineering	\$ 160,000	40	21
56	2014	Improvements Phase II Argyle Lane / Fise / Gugerty Drainage	drainage with water quality features  Construct Drainage Conveyance to Kent Avenue	Scoping	\$ 175,000	38	20
57	2011	Improvements Phase II Avalon Woods / Frank Jewell Drainage	Plan, design and construct drainage system in	Land Rights	\$ 550,000		19
58	2014	Improvements Reservation Trail / Grzybowski Drainage	development.  Re-establish approx. 500' of swale	Land Rights	\$ 12,000		20
59	2016	_	Drainage improvements to re-route flow from Harts	Land Rights	\$ 150,000		6
	2012	Drainage Improvements Iron Mine T.D. Bank Stabilization	Landing to Love Creek.  Bank Stabilization on Main of Tax Ditch	Scoping	\$ 750,000		18, 19

Rank	Year	Project	Remarks	Status	Esti	mated Total Cost	Representative District	Senatorial District
61	2015	Long Neck Drainage Study	Drainage Studies and Improvements in the Long Neck Community	Scoping	\$	100,000	37	6, 20
62	2014	Guinea Creek TD	Creation of a new tax ditch to help Long Neck Drainage	Planning	\$	600,000	37	20
63	2004	Rt. 5 & Rd. 290 / Cook Public Ditch	Creation of a new tax ditch to help intersection and adjoining drainage issues	Planning	\$	400,000	20	6, 19
64	2005	Road 357 (Piney Point Dev.) / John Bauer	200' pipe, 700' cleanout, catch basins	Land Rights	\$	35,000	38	20
65	2004	Rd. 283 A / Kosinski Public Ditch	500 feet ditch construction	Scoping	\$	75,000	14	6
66	2017	Walston Walk Ct. / Greene	Clean and replace approx. 420' of open and piped ditch; coordinate with DelDOT	Scoping	\$	50,000	38	20
67	2007	Rehoboth Beach Yacht & Country Club / Miller Drainage Improvements	150 feet of pipe & catch basins	Scoping	\$	50,000	14	6
68	2017	Oyster Bay / Bay Vista Rd	Ditch/swale ponding water to catch basin. 1200' of proposed stormdrain to rehoboth canal	Scoping	\$	250,000	14	6
69	2011	Teacher Rd / Cropper Drainage Improvements	Planning, design and construction of drainage system in Forest Park MHP & reconstruction of 3000 ft. of outlet ditch	Scoping	\$	150,000	41	20
70	2014	Deer Run Acres Drainage Improvements	Stormwater management system upgrades to subdivision and Forest Rd (S292), (S112-118)	Scoping	\$	315,000	38	20
71	2014	Delaware Avenue / Godwin Drainage Improvements	Install approximately 2,300 If of ditch along Delaware Ave (\$054A), private property & railroad	Scoping	\$	96,000	41	20
72	2006	Ockels Dr / Neal Public Ditch	Reconstruct approximately 1800 feet ditches upstream of	Scoping	\$	35,000	39	21
73	2004	Earnestine Hall Rd 569 nr Omar	Ockels Drive south of Blades.  18"x 250' pipe with 5 catch basins	Engineering	\$	70,000	38	20
74	2004	Rt. 9 / Mirey Branch / Tyndall	4500' of ditch reconstruction	Scoping	\$	500,000	39, 40	21
75	2008	Nanticoke River Tax Ditch Maintenance Dipout Phase III	Dipout of Tax Ditch 4 miles	Scoping	\$	500,000	35, 30	18, 19
76	2001	Bee Branch Bank Stabilization	Protection downstream of Rt. 13.	Scoping	\$	60,000	35	18
77	2009	Bee Branch TD Restoration	Design and Construct 2000 feet TD stabilization and restoration	Scoping	\$	685,000	35	18
78	2016	Bridgeville Branch Main Channel Restoration Phase II	Stabilize and/or restore Bridgeville Branch between Route 13 and 13A.	Scoping	\$	500,000	35	19
79	2013	Georgetown Vaughn P-9	Redesign Prong 9 of Georgetown Vaugh Tax Ditch including the replacement of 500' of storm drain	Scoping	\$	105,000	37	19
80	2015	Cart Branch Tax Ditch Prong C Bank Stabilization	Installation of approximately 300 LF of pipe and/or replacement piles.	Scoping	\$	50,000	35	18
81	2010	Herring Branch Tax Ditch / Parson Bank Stabilization	300'of bank stabilization of Herring Branch Tax Ditch Main below Rt 20	Scoping	\$	30,000	41	20
82	2011	Deep Creek Tax Ditch Bank Stabilization Phase 1 (Purdue)	Approximately 400 linear feet of bank stabilization need on the right side of the Deep Creek Tax Ditch Main Channel, located 6,600 linear feet upstream of Old Furnace Road.	Engineering	\$	55,000	35	19
83	2008	Morgan Branch Prong 1 / Fleetwood Drainage Improvements	Reconstruct 8000 feet of Drainage Ditch Includes Hasting Estates Drainage Improvements project	Scoping	\$	70,000	39	21
84	2010	Sandy Branch Development / Clarke	1200' of bank stabilization	Scoping	\$	205,000	41	20
85	2006	Road 347 and 349 / Densmore	2,200 feet of channel reconstruction with total disposal Whites Neck Village and West Ocean Farms	Scoping	\$	70,000	38	20
86	2008	Fawn Rd / Rantz Drainage Improvements	Reconstruct 5000' of existing ditch, 500' of new Storm Drain and 1000' of new ditch	Scoping	\$	120,000	35	18, 19
87	2008	Hudson Rd / Harvey Drainage Improvement	Regrade Road Ditch 1500 to SWMP, with culvert under road	Scoping	\$	70,000	20	6
88	2008	Cedar Corners Rd / Jones Drainage Improvement	2000 feet of New Ditch North of intersection with Deer Forrest	Scoping	\$	20,000	35	19
89	2008	Baker Mill Rd / Massey Drainage Improvements	800' of Storm Drain	Scoping	\$	140,000	35	21
90	2006	Memory Rd / Wilkens Public Ditch	Reconstruct approximately 3 mlles of ditches	Scoping	\$	125,000	30	16
91	2006	Rd 224 Baird Public Ditch	Install new pipe and Catch Basins to Maple Marsh Tax Ditch	Scoping	\$	140,000	35	18
92	2007	Camp Arrowhead Rd / Angola Neck Park / Mangini Drainage Improvements	2,000 feet of Channel Maintenance	Scoping	\$	16,000	14	6
93	2006	Route 26 / Lilly Public Ditch	Construction of new ditch	Scoping	\$	21,000	38	20
94	2007	Peppers Creek S1 of P10 Bank Stabilization	100 ft. Bank Stabilization	Scoping	\$	28,000	41	20
95	2010	Road 213 / Driscoll / Drainage Improvements	Approx. 2500 feet of new ditch	Scoping	\$	28,000	35, 36	18
96	2006	Doddtown Road / Tice Public Ditch	Construction of 5,000 feet of new ditch and pipe and catch basins	Scoping	\$	275,000	20	19
97	2008	Bethany Forrest / Madavero Drainage	Reconstruct 300' of existing ditch & 800' Storm Drain	Scoping	\$	41,000	38	20
98	2007	Peppers Creek Rd / Dogwood Acres / McNeill	1,050 feet of storm drain including catch basins	Scoping	\$	137,500	38	20
99	2007	Drainage Improvements Rd 305 & Rd 296 / Mifflin Drainage	2,000 feet of storm drain including catch basins	Scoping	\$	205,000	37	19

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
100	2008	Hearns Pond Rd / Ensminger	Reconstruct 8,000 feet of ditch ands replace culvert under road	Scoping	\$ 45,000	39	19, 21
101	2007	Forrest Rd / Lewis Drainage Improvements	2,500 feet of New Ditch	Scoping	\$ 45,000	20	6
102	2007	Doorman Rd / Holly Oaks Drainage Study	Drainage study to determine feasibility of drainage improvements in this watershed	Scoping	\$ 35,000	20	6
103	2002	Route 13A (O'Neal Public Ditch) Phase III	200' addition to storm drain system with catch basin.	Scoping	\$ 30,000	39	19, 21
104	2008	Brittingham Rd / Justice Drainage Improvement	Reconstruct 1000 feet of Drainage Ditch	Scoping	\$ 21,000	40	21
105	2008	Project Concord Pond Rd / Hudson	Reconstruct 5000 feet of drainage ditch	Scoping	\$ 55,000	35, 39	19
106	2008	Jefferson Bridge Rd / Chandross	Reconstruct 1 mile of Existing Ditch	Scoping	\$ 27,500	38	20
107	2008	Lawson Rd / Setzer Drainage Improvement	4000' of New Ditch	Scoping	\$ 35,000	37	19
108	2008	Nat Turner Street / Lane Drainage Improvements	New Ditch 600'	Scoping	\$ 7,000	35	19
109	2008	New Rd (391) / Higgs Drainage Improvement	300 feet of ditch in woods	Scoping	\$ 14,000	38	20
110	2008	Old Furnace Rd / Bull Drainage Improvements	1000 Feet of Storm Drain	Scoping	\$ 137,500	39, 35	19
111	2008	Rd. 350 / Gladwin Drainage Improvement	Reconstruct 600' Existing Ditch	Scoping	\$ 14,000	38	20
112	2008	Rt. 10 / Dorharty Drainage Improvement	400' New Ditch, 1100' of Storm Drain	Scoping	\$ 275,000		21
113	2008	Rt. 13A / Spicer Drainage Improvement	1000' of New Storm Drain	Scoping	\$ 105,000		21
		Shingle Point Rd / Antonio Drainage	Reconstruct 1000 feet of Drainage Ditch				
114	2008	Improvement		Scoping	\$ 21,000	20	6
115	2009	Sowbrise Rd / Hue Drainage Improvements	Cleanout of 2000 feet of existing drainage ditch	Scoping	\$ 28,000	36	19
116	2009	City of Rehoboth Country Club Estates Drainage Improvements	Design and installation of a storm septor upgrade to existing storm drain. Reducing total suspended solids discharged to Silver Lake	Scoping	\$ 190,000	14	6
117	2010	Bay View Rd / Mahon Drainage Improvement	100' of new storm drain and 300' of ditch reconstruction	Scoping	\$ 35,000	14	- 6
118	2010	Old Meadow Rd (Hanenfeld)	2500' of new and regrade ditch	Scoping	\$ 22,000	39	19
119	2010	Parker House Rd / Noble	Installation of culvert under Oak Street	Scoping	\$ 21,000	38	20
120	2010	Stafford Tax Ditch Main Bank Stabilization /	100' of bank stabilization	Scoping	\$ 41,000	35	18
121	2010	Walley Lane / Glen Jones Drainage	3000' feet of ditch reconstruction	Scoping	\$ 11,000	39	21
122	2010		Stabilization of TD near Sawmill Road	Scoping	\$ 15,000	35	19
123	2010	Chesapeake Bay Watershed Channel and Wetland Restoration Projects	Small channel and wetland restoration projects	Scoping	\$ 105,000	35, 36, 37, 39, 40, 41	18, 19, 20, 21
124	2011	Bacons Way / Shawnee Place / Bacon	Cleanout approximately 1000' of road ditch and replace 3 driveway pipes	Scoping	\$ 16,000	1	18
125	2011	Murphy Lane / Helen Carter Drainage Improvements	1000' of new ditch through woods into Redden Tax Ditch	Scoping	\$ 21,000	36	19
126	2011	Oakridge Development (Rd 258) / Foley Drainage Improvements	Construct outlet for pre-stormwater infiltration pond	Scoping	\$ 126,000	20	6
127	2011	S. Union Church / John Falk Drainage Improvements	3000' of storm drain	Scoping	\$ 160,000	35	18, 19
128	2011	Scottland Rd / Sabatrie Singh Drainage Improvements	1000' of Storm Drain along Scottland Rd.	Scoping	\$ 63,000	40	21
129	2011	Shawnee Rd / Donald Bolton Drainage	4000' of ditch reconstruction , 700' of storm drain and 300' of new ditch	Scoping	\$ 60,000	35	18
130	2011	Woods Drive / Carolyn Ludwig Drainage	Plan, design and construct drainage system in development.	Scoping	\$ 210,000	14	6
131	2012	Governor Stockley Rd / McCray Drainage	Reconstruct 1500' of ditch acres of Ag Field	Scoping	\$ 21,000	41	19
132	2010	Morgan Branch Road / Davenport Drainage Improvements	Reconstruct approx. 1000' of channel outlet	Scoping	\$ 30,000	39	21
133	2013	Bayview Rd / Simmons	Tide Gate	Scoping	\$ 11,000	14	18
134	2013	Deer Forrest Rd / Price Drainage Improvements	1700' of pipe and catch basins	Scoping	\$ 525,000	35	19
135	2013	Elliott-Evans TD/ Evans Bank Stabilization	700' of Bank Stabilization/Stream Restoration on lower end of main	Scoping	\$ 210,000	40	21
136	2013	Line Rd / Lee Drainage Improvements	Ag Drainage	Scoping	\$ 53,000	40	21
137	2013	North Oak Grove Rd / Willin Drainage	Reconstruct approximately 5,000 feet of existing Agricultural Drainage Ditch	Scoping	\$ 28,000		19
138	2013	Shawnee Rd / Cummings Drainage	Culvert under Shawnee Rd and tie into Young-Patterson T.D.	Scoping	\$ 27,000	35	18
139	2013	Town of Bridgeville / Mill Street Drainage	Instalation of new catch basin and 200' feet of stormdrain.	Scoping	\$ 35,000	35	19
140	2013	Town of Millsboro / West State Street Drainage Improvements	Provide Drainage outlet to Millsboro Little League with strom drain from little league to Millsboro Pond	Scoping	\$ 265,000	41	20
141	2014	Town of Millsboro / Wilson Hwy Drainage	Approx. 500' of storm drain replacement along Wilson	Scoping	\$ 360,000	41	20

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatorial District
142	2014	Town of Oceanview / Atlantic Ave. Drainage Improvements	Improvements to SWMP outlet along Atlantic Ave. (\$026)	Scoping	\$ 65,000	38	20
143	2014	Beaverdam Rd / Hollymount Rd	Approx. 2000' of ditch regrading and piping. Addition of cross road pipes under road. (Barnes)	Scoping	\$ 52,000	20	6
144	2014	Burbage Rd / Mark Brown Drainage	Approx. 1000' of open ditch.	Scoping	\$ 13,000	38	20
145	2014	Evans Real Estate Drainage Improvements	Approx, 60' of pipe and CB	Scoping	\$ 20,000	38	20
146	2014	Murray Estates Drainage Improvements	Repair and replacement of existing SWM infrastructure.	Scoping	\$ 32,500	38	20
147	2014	Vines Creek / Cathell Drainage Improvements	Clearing and snagging trees along Vines Creek.	Scoping	\$ 32,500	41	20
148	2014	Plantation Park / Silver Woods Public Ditch	Dip out of approx. 5,300 If of ditch	Scoping	\$ 106,000	38	20
149	2014	City of Seaford / Virginia Ave (5639) Drainage Improvements	Stormwater management system upgrades with wetland and water quality	Scoping	\$ 75,000	39	21
150	2014	Yacht Basin Rd / Ellis Drainage Improvements	Dip out and reconstruction of approx. 1800ft of public ditch	Scoping	\$ 36,000	38	20
151	2014	Chapel Branch Prong / Lare	Dip out of approximately 7,300ft of prong.	Scoping	\$ 73,000	39	19
152	2014	Poplar Grove / Forest Rd Drainage Improvements	Stormwater management system upgrades to subdivision and Forest Rd (\$292).	Scoping	\$ 315,000	20	6
153	2014	Brasures Branch TD / Rickards Bank Stabilization	Bank stabilization of tax ditch	Scoping	\$ 35,000	38	20
154	2015	Anchorage Canal Drainage Area Highway Wetpond Stormwater Retrofit	Stormwater Retrofit to Existing Wetponds.	Scoping	\$ 750,000	38	20
155	2015	Anderson Corner Rd / Giove Drainage Improvements	Dip out of approximately 500 LF of ditch and removal of large vegetation.	Scoping	\$ 6,500	20	19
156	2015	Branchview / Niblett	Repair of 1200' of existing CMP stormdrain in Branchview Development	Scoping	\$ 60,000	39	20
157	2015	Bunting Road - Buckalew Drainage	Install 1,500' of drainage from low area out to Pepper Creek.	Scoping	\$ 100,000	41	20
158	2015	Club House Rd / Hutson Drainage	Creation of ditch in backyards to outlet residential low	Scoping	\$ 3,500	38	20
159	2015	Improvements Ellendale Tax Ditch/Beach Hwy Rt.16 / Wyatt	spot to Derrickson Canal Tax Ditch.  Drainage improvements to Ellendale Tax Ditch.	Scoping	\$ 25,000	36	18
160	2015	Drainage Improvements Hunter Drive / McGinnis Drainage	Drainage Improvements to failed infiltration pond	Scoping	\$ 36,000	20	6
161	2015	Improvements  Little Bay Tax Ditch Restoration	Approximately 100 feet of bank stabilization and creation	Scoping	\$ 35,000	38	20
162	2015	Mallard Lakes Drainage Improvements	of a floodplain along Prong 1.  Drainage Improvements to community of Mallard Lakes	Scoping	\$ 200,000	38	20
163	2015	McColley Street/Stevens Drainage	Drainage Improvements to the residences between	Scoping	\$ 2,500	36	18
164	2015	Improvements Peddler's Village - DelDOT Drainage	McColley, Gilcrest and Marshall Streets  Drainage Improvements to existing infastructure.	Scoping	\$ 50,000	14	6
165	2015	Improvements Overbrook Shores/Moore Drainage	Install catch basins and culverts under the driveways with	Scoping	\$ 34,000	20	6
103	2013	Improvements	an outfall at the marina.  Stormwater Management Pond Retrofit and conveyance	эсория	34,000	20	
166	2015	Sherwood Forest /Jackson / Dawson	from strip lots along Rt. 24.Potentially include in Long Neck Study.	Scoping	\$ 30,000	37	19
167	2016	Crazy Ln & 5th St - Stinson Drainage	Drainage improvements to Bay Vista subdivision.	Scoping	\$ 20,000	14	6
168	2016	Highland Acres Drainage Improvements	Drainage improvements to Highland Acres subdivision.	Scoping	\$ 50,000	20	6
169	2016	Sea Aire Village - Kings Creek Drainage Improvements	Drainage improvements within Sea Aire Village and connection of blind ditch to outlet.	Scoping	\$ 50,000	14	6
170	2016	Swedes & Bayard Streets - Dewey Beach - Yorgiadis Drainage Improvements	Drainage Improvements to outlet drainage from intersection and residential lots.	Scoping	\$ 25,000	14	6
171	2014	Longneck / Christina Hall Drainage	Install approx. 250' of open drainage to SWMP.  Potentially include in Long Neck Study	Scoping	\$ 9,750	37	19
172	2015	Ward Cordrey TD P3 Drainage Improvements	Re-install pipes and dip-out approximately 1650 LF of channel to provide positive outfall to Prong 3 of tax dltch.	Scoping	\$ 40,000	40	21
173	2010	Gravel Hill Rd / Kershaw	Approx, 1200' of open ditch to improve drainage & relieve flooding on her property and out buildings; catch basin	Scoping	\$ 12,000	36	19
174	2018	King George III Street / McFadden	nearby, (\$2017-70)  Re-grading and new swales; possible pipe installation.  Development adjacent to IRHS (\$2017-124)	Scoping	\$ 25,000	41	20
175	2018	Manchester Manor / Navarro	Drainage Improvements within the Manchester Manor	Scoping	\$ 100,000		
176	2018	Pepper Creek TD Sub Prong 3 of 1 Relocation	Subdivision S 2017-83 Sub Prong 3 of Prong 1 needs to be relocated and dipped out. A portion of the prong was filled in as part of the	Scoping	\$ 25,000		20
177	2018 2018	Sussex Avenue / Allen St. / Dunn	Savannah Square Shopping Center project and the ditch Rain Garden with connection into City of Seaford drainage	Scoping	\$ 20,000	39	21
178	2018	Woodland Road / Massey	1,000 feet of new ditch to connect to DelDOT drainage	Scoping	\$ 18,000		21
179	2019	Bethasda Road / Gaskins	800 feet of storm drain to provide an outlet for properties	Scoping	\$100,000	41	20

Rank	Year	Project	Remarks	Status	Estimated Total Cost	Representative District	Senatoria District
180	2019	Chapel Branch Road / Davis	2,000 feet of new ditch in through agricultural lands	Scoping	\$20,000	39	19
181	2019		Stabilization of areas upstream and downstream of	Scoping	\$75,000	41	21
182	2019	Holly Branch Tax Ditch / Dunn	Piping approximately 850' of Holly Branch Tax Ditch along Horsey Church Road (5510)	Scoping	\$455,000	40	21
183	2019	Indian Beach Drainage Improvements	reconstruction of tidal ditches that provide an outlet to	Scoping	\$50,000	14	5
184	2019	Kent Avenue / Middlesex Beach Drainage	Drainage improvements in the community and the outlet for community along Kent Avenue to the canal.	Scoping	\$150,000	38	20
185	2019	Neals School Road / Jester Drainage	Reconstruction of approximately 850 feet of existing ditch	Scoping	\$7,500	39	19
186	2019	Improvments Pear Tree Rd / Cooper	near the intersection of Neals School Road and Hill Road Reconstruction of about 2,000 feet of ditch through	Scoping	\$40,000	41	21
187	2019	Route 54 / James Branch Tax Ditch / McKelvey Drainage Improvements	Improvements to Prong 1 of Jame branch Tax Ditch to improve the outlet for Rt. 54	Scoping	\$40,000	40	21
188	2019	Savannah Ditch Drainage Improvements	Reconstruction of over 5 miles of channels in the Savannah ditch watershed. Provides drainag outlet to	Scoping	\$500,000	36, 37, 20	19, 5
189	2019	Sea Country Estates / Suter/ Barton Drainage	Reconstruction of approximately 4,000 of exsting ditch	Scoping	\$75,000	38	20
190	2019	Walnut Street / Town of Frankford / Garcia	Reconstruction of 1,000 feet of ditch North of Walnut	Scoping	\$30,000	41	20
101	2015	Unity Branch/Holly Lake Campground	Drainage studies and improvements in the Unity Branch	Seconing	\$ 100,000	20, 37	6, 19
191		Watershed Study	watershed upstream of Rt, 24. Approximately 150 linear feet of bank stabilization need	Scoping			
192	2011	Mirey Branch / Wan Yu Bank Stabilization	on the right side of Mirou Respek and peach reading	Scoping	\$ 32,000	40	21
193	2010	Inland bays Atlantic Ocean Watershed Channel and Wetland Restoration Projects	Small channel and wetland restoration projects	Scoping	\$ 105,000	14, 20, 37, 38, 40, 41	6, 19, 20, 21
194	2010	Delaware Bay Watershed Channel and Wetland Restoration Projects	Small channel and wetland restoration projects	Scoping	\$ 105,000	14, 20, 35, 36, 37	6, 18, 19
195	2011	Atlanta Devonshire Development / Tveekrem Drainage Improvement	1000' of new ditch in the development	Scoping	\$ 21,000	39	21
196	2009	Norman Eskridge Highway / Lowes	Cleanout outlet ditch of Del DOT storm drain	Scoping	\$ 70,000	39	21
197	2014	Angola Rd / Maietti Drainage Improvements	Drainage improvements through Angola By the Bay	Scoping	\$ 650,000	14	6
198	2014	Bay Colony Marina Sluice Replacement	Subdivision south of Angola Rd (S277), DelDOT has taken Dilapidated Sluice	Scoping	\$ 260,000	38	20
199	2004	Concord Pond Road / Jenkins	1500' of new ditch	Scoping	\$ 35,000	35	19
			1		\$ 21,000	41	21
200	2005	Sunset Branch T.D. Prong 1 Pipe	Install approximately 150' of pipe with inlet protection in Stream Restoration	Scoping			
201	2003	Jones Mill Branch	Stream Restoration	Scoping	\$ 126,000	35	19
202	2004	Collins Russell Rt 16 Milton	Infiltration system	Scoping	\$ 7,000	20, 36	19
203	2004	Sr.1 / Sea Colony	Outlet drainage for SR 1 in Bethany Beach	Scoping	\$ 215,000	38	20
204	2010	Town of Bethany North Pennsylvania Avenue Storm Drain	Restoration and reconstruction of storm drain on North Pennsylvania Avenue	Scoping	\$ 2,500,000	38	20
205	2005	Bay City Mobile Home Park Drainage Study	Drainage Study for community	Scoping	\$ 42,000	37	19
206	2014	Lakeview Rd / Donna Lanham Bank	Approx. 200' of bank stabilization east of bridge,	Scoping	\$ 52,000	41	21
207	2012	Revel Road / DelDOT Drainage Improvements	500' of new ditch and culvert under road	Scoping	\$ 100,000	41	20, 21
208	2004	Joe Dailey New Rd Lewes	24" x 1500' of pipe with catch basins	Scoping	\$ 25,000	20	6
209	2014	Rt. 30 Whitesville Rd / Philips Drainage	Replacement of failing CB south of Whitesville Rd (S064).	Scoping	\$ 6,500	40	21
	_	Improvements	Channel Reconstruction of Mayer Branch where it outlets		\$ 210,000	40	21
210	2006	Mayer Branch Public Ditch	to maryland Drainage study	Scoping	\$ 210,000	40	21
211	2012	Dewey Beach Drainage Study		Scoping	\$ 35,000	14	6
212	2007	Route 9 / Britt Drainage Improvements	1,000 feet of Channel Reconstruction	Scoping	\$ 14,000	40	19
213	2007	Cotton Patch Hills Drainage Improvements	Construction of 500' of storm drain to provide an outlet for Cotton Patch Hills and SR 1	Scoping	\$ 75,000	38	20
214	2007	Cool Spring Road / Swift Drainage	Reconstruct approximately 2,500' of an existing ditch that	Scoping	\$ 21,000	37	18
215	2007	Patty Cannon Estates drainage improvements	Provide outlet for existing residential development	Scoping	\$ 70,000	40	21
216	2008	Rt 13A / Skateworld	500 feet of Storm Drain	Scoping	\$ 82,000	39	21
217	2017	Dartmouth Drive Congestion Relief Project /	Stormdrain Improvements for the relief route between	Scoping	\$ 25,000	14	6
218	2007	Deep Hole Tax Ditch Maintenance Dipout	Maintain approx. 3 miles of tax ditch	Scoping	\$ 115,000	38	20
219	2008	Meadow Branch Tax Ditch Maintenance Dipout	Dipout of Tax Ditch 24 miles	Scoping	\$ 275,000		21
220	2008	Marshyhope Tax Ditch Maintenance Dipout	Dipout of Tax Ditch 13 miles	Scoping	\$ 140,000	35, 30	16, 19

Rank	Year	Project	Remarks	Status	Esti	nated Total Cost	Representative District	Senatorial District
221	2013	Falling Point Rd / Witmer Drainage Improvements	Replacement of 120' feet of 24" stormdrain and removal of sediment from lagoon	Scoping	\$	42,000	38	20
222	2011	Sand Hill Rd / Thelam Folke Drainage Improvements	6000' of ditch reconstruction	Scoping	\$	26,000	36	19
223	2005	Cart Branch Main / Alan Pongratz	Bank Stabilization	Scoping	\$	35,000	35	18
224	2005	Rt. 24 (Millsboro) / Kathy McGinnis	1500' pipe, catch basins	Scoping	\$	70,000	41	20
225	2012	Donovan Rd / Mifflin TD / DelDOT Drainage Improvements	Extend Mifflin TD 1500' to Donovan Road	Scoping	\$	25,000	37	19
226	2014	Clogg Drive & Thorogoods Rd (S333) Drainage Improvements	Dip out of approximately 1,800ft of channel.	Scoping	\$	21,000	41	20
227	2014	Munchy Branch Rd/Griffith Drainage Improvements	Approx. 1300' of pipe and ditch regrading.	Scoping	\$	80,000	14	6
228	2011	Marks Lane / Sally Marks Drainage Improvements	5,280' of storm drain	Scoping	\$	525,000	37	19
229	2010	Doddtown Rd / Rich	Approximately 0.75 miles of Storm Drain and Open Ditch	Scoping	\$	275,000	20	19
230	2005	Road 442 / Jay Challman	4400' cleanout, min. clearing project includes Rd. 74 Ciampo project	Scoping	\$	135,000	40	21
231	2015	Bay Colony - Cripple Creek Drainage Improvements	Drainage Improvements to structures within the Bay Colony and Cripple Creek subdivisions.	Scoping	\$	550,000	38	20
232	2014	Town of Oceanview / Caroline St. Drainage Improvements	Approx. 2,000 of drainage improvements.	Complete?	\$	39,000	38	20
233	2008	River Rd / Clark Drainage Improvements	1500' of New Ditch, 12 Driveway Pipes	Scoping	5	35,000	39	21
234	2011	Neptune Rd / Luther Warren Drainage Improvements	600' of Storm Drain to tie DelDOT drainage into Redden Wood Development Stormwater System	Scoping	\$	80,000	36	19
235	2010	Webb Farm Road (594) / Rose	Clean out approx. 900 ft. of ag. ditch	Scoping	5	7,000	35	18
236	2002	Columbia Ave. (Rehoboth), Surf Ave. / Phase III	Extend the drainage system on surf Avenue up Colombia Avenue to the intersection at First Street	Scoping	\$	145,000	14	6
237	2004	Town of Georgetown	Drainage Projects within in the town of Georgetown	Scoping	\$	75,000	37	19
238	2007	Rehoboth Beach / Stockley Street	Ocean block of Stockley to King Charles	Scoping	\$	975,000	14	6
		SUBTOTAL - Sussex County Active Projects			\$	35,251,750		

# 2008 Final Report

of the Joint Sunset Committee



# The Conservation Districts

New Castle, Kent and Sussex with Information about the Division of Soil and Water Conservation DNREC

A Report to the Governor and the General Assembly of the State of Delaware

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# **Conservation Districts and the Division of Soil and Water Conservation**

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# 2008 Final Recommendations for the Conservation Districts and the Division of Soil and Water Conservation

The Joint Sunset Committee recommends continuance of the Conservation Districts, but only upon its meeting certain conditions or making certain modifications as identified below.

#### A. The Joint Sunset Committee recommends the following statutory changes:

1. Statute refers to Levy Court of Sussex County –the correct reference should be Sussex County Council. (7 *Del. C.* § 3900 *et al.*)

#### B. The Joint Sunset Committee recommends the following:

### **New Castle Conservation District / Kent Conservation District / Sussex Conservation District**

- 1. Provide post retirement health benefits.
- 2. Continue to study the issue of lines and grades with the ultimate goal to make recommendations for best practices in each of the 3 counties as well as to make to recommendations regarding ongoing resident improvement of grading on their property
- 3. The Districts continue the oversight of retention ponds and continue to provide educational workshops regarding stormwater pond maintenance. These workshops should provide general information about reason for the ponds, maintenance and where to go for technical assistance.
- 4. Improve the Conservation Districts' website to be more user friendly in terms of terminology used and informative/educational to those who are not familiar with the Conservation Districts.
- 5. Provide more public awareness and encouragement of voting in Board of Supervisor elections. This could be accomplished on the updated website.

#### **Kent Conservation District**

- 6. Provide the Joint Sunset Committee with copy of the policy for use of equipment "off premises."
- 7. Provide the Joint Sunset Committee with specifications for a Depreciation module as recommended by the auditor in the FY'06 audit.
- 8. Provide the Joint Sunset Committee with a standard accounting and operating procedures manual as recommended by the auditor in the FY'06 audit.
- 9. Complete a Personnel Policy Manual and provide the Joint Sunset Committee with a copy of that manual.

#### **Sussex Conservation District**

- 10. The District reports back to Joint Sunset Committee with progress with regard to office space to accommodate the entire Sussex Conservation District staff.
- 11. The District uses alternative resources such as engineers employed by the state of Delaware, and different departments to assist in their stormwater program needs.

#### **Division of Soil and Water Conservation**

12. DNREC fines be increased; that DNREC have the ability to "stop work" on a site; and that DNREC update stormwater regulations. The Division of Soil and Water must report back to the Joint Sunset Committee on the progress of each of these recommendations.

#### **C.** The Joint Sunset Committee shall:

1. Send a letter from the Joint Sunset Committee to Sussex County Council regarding the Planning and Zoning Board's review time and request that they investigate the 16 month period it take to review plans.

#### **D.** The Joint Sunset Committee requests the following action:

- 1. The Clean Water Advisory Council look at the equity or the need for additional funding [for the Conservation Districts] and report back to the Joint Sunset Committee in January of 2009.
- 2. The Division of Soil and Water Conservation report back to the Joint Sunset Committee with recommendations on how to tighten up the process with regard to Certified Construction Reviewers.

#### **Laws and Policies**

#### **Background**

The Division of Soil and Water Conservation (DSWC) provided the following information regarding the history of conservation districts:

In 1937, President Roosevelt wrote the governors of all the states recommending legislation that would allow local landowners to form soil conservation districts. The movement caught on across the country with district-enabling legislation passed in every state. This legislation was passed in Delaware in 1943. Today, the country is blanketed with nearly 3,000 conservation districts. <sup>1</sup>

According to the Delaware Archives, New Castle members of the House of Representatives sponsored three separate attempts to pass legislation authorizing the formation of soil conservation districts. The first attempt died in committee. The second attempt was vetoed by Governor Bacon after farm organizations objected to regulatory authority included in the act. The third attempt in 1943, a bill sponsored by Representative E. R. Pleasanton of Port Penn was signed into law by Governor Bacon on April 2, 1943.

The Soil Conservation District Act created the State Soil Conservation Commission for the purpose of determining the need for conservation districts in the State and to provide guidance in their functioning after formation. After its members were appointed by the Governor and the Commission was organized, the County Agricultural Agent in each county set about the business of explaining the purposes of a Soil Conservation District and the method of forming one in each of the three counties.

The procedures specified in the Act required a petition signed by not less than twenty-five landowners, a public hearing and a study of the area by the Commission to determine whether a soil conservation district was necessary and administratively feasible.

After the study and the determination that a district was feasible a referendum was held in each county. After the favorable referendum the County Agent was notified by the Commission of the necessity for a Board of Soil District supervisors, four of whom were to be landowners resident within the district and elected by the majority vote of landowners voting under Commission rules.

To arrange for continuity of the Board, the four elected supervisors were assigned initial terms of one, two, three or four years thus providing for a four year term after the initial period. A supervisor could succeed himself in office as long as he remained qualified. The Board also had two ex officio members: the Chairman of the Levy Court and the County Agricultural Agent. The County Agent was Secretary of the Board but had no voting privileges.

#### **Authority and Philosophy**

Each Conservation District is responsible for providing local leadership for soil conservation, particularly erosion control and drainage. The District's broad authority under the basic Act (Chapter 39, Title 7, <u>Delaware Code</u>) has provided a vehicle for other groups or agencies to achieve public purposes in the soil and water resources field. It is significant that each time that the Conservation District's operation's have

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<sup>&</sup>lt;sup>1</sup> Division JSC Initial Questionnaire, pgs. 57-58

been examined in response to requests for new or clarified authority that the District has been strengthened or given new authority as an organization close to the landowners.

The Conservation Districts' long range program directs attention to the concerns stated formally by the public in response to questionnaires and at meetings. However, more importantly it addresses those concerns expressed by landowners and others in the Districts' daily contacts in the business of solving conservation problems and in responding to the needs of people and agencies for resource information and protection.

In carrying out the soil and water conservation programs throughout the State, it should be mentioned that the role of each Districts' Board is not highly visible. The Board serves as a catalyst, a coordinator, a sounding board, a sponsor and a host of other functions for the myriad of conservation and resource agencies concerned with soil, water and plant resources.

The enabling legislation has been amended several times throughout the years. The changes include: allowing for a designated member of county government to serve in lieu of the Levy Court President; allowing up to two non-farm residents to be appointed to serve by the DNREC Secretary; the specification that the supervisors come from specified areas rather than at-large; and that all landowners may vote in an election, not just those with three acres or more outside the city or town limits.<sup>2</sup>

**New Castle Conservation District** provided the following information regarding its history from a summary paper that was prepared in 1984 as part of a legislative briefing:"<sup>3</sup>

New Castle Conservation District was third to be organized in Delaware though New Castle County played a leading role in early soil conservation. For example, the Christina Soil Conservation Demonstration project area was initiated on November 17, 1937. A 28,000 acre area of severely eroding soil in the Piedmont section of the Christina River watershed was selected by the USDA, Soil Conservation Service for special attention. Later an additional 15,000 acres was added to the project.

. . .

The terms "Tax Ditch" or "Company Ditch" were initially used locally to identify ditches constructed or maintained by groups such as the marsh company organized under the incorporation laws of the Delaware colony. Almost every volume of Delaware law contains some reference to specific marsh companies, drainage corporations, drainage laws or drainage incorporation laws. This is one root of the District.

#### **Joint Sunset Committee Review History**

The Joint Sunset Committee's (JSC) Review History reveals that none of the three Conservation Districts nor the Division of Soil and Water Conservation has been reviewed by the JSC.

<sup>&</sup>lt;sup>2</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 3-5

<sup>&</sup>lt;sup>3</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 3-5

#### **Powers and Duties**

Below are the powers and duties of the Conservation Districts as prescribed by statute:<sup>4</sup>

A soil and water conservation district organized under this chapter shall constitute a governmental subdivision of this State, and such district, and the board of supervisors thereof, shall have authority to exercise the following powers, in addition to others granted in other sections of this chapter, subject to the responsibility of the Department of Natural Resources and Environmental Control for the administration and direction of the programs of the districts:

- (1) To develop comprehensive plans for, and carry out, preventive and control measures and works of improvement for the prevention of erosion, floodwater and sediment damages, and the conservation, development and utilization of land and water resources, including the disposal of water and removal of sediment from waterways, lakes, ponds or other bodies of water, within the district;
- (2) To conduct, in cooperation with the Department of Natural Resources and Environmental Control surveys, investigations and research relating to the prevention of erosion, floodwater and sediment damages, and the conservation, protection, development and utilization of land and water resources, including the disposal of water, and removal of sediment from waterways, lakes, ponds or other bodies of water;
- (3) To cooperate or enter into agreements with, and, within the limits of appropriations or other funds duly made available to it by law, to provide aid to any agency, governmental or otherwise, or any landowner within the district, in carrying out the program of the district, subject to such conditions as the board may deem necessary to carry out the purposes of this chapter;
- (4)(a) To make available, on such terms as the board shall prescribe, to any landowners within the district, through existing agencies if agreements with them seem feasible, or by such other means as the board shall prescribe, such services, materials and equipment as will assist such landowners to carry on operations for any of the purposes of this chapter;
- (b) To make available on request, and on such terms as the Board shall prescribe, to any cooperator who is a resident of the State and who owns land in a neighboring state, services, materials and equipment for the benefit of such cooperator's land in the neighboring state;
- (5) To construct, improve, operate and maintain such structures as may be necessary or convenient for the performance of any of the operations authorized in this chapter;
- (6) To obtain options upon and acquire by purchase, exchange, lease, gift, grant, bequest, devise or otherwise, any property, real or personal, or rights or interests therein; to maintain, administer and improve any properties acquired; to receive income from such properties and expend such income in carrying out the purposes and provisions of this chapter; and to sell, lease or otherwise dispose of any of its real or personal property or interests therein, in furtherance of the purposes of the district;
- (7) To accept the cooperation of, and financial, technical and material assistance from, the United States or any of its agencies, or from this State or any of its agencies

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<sup>&</sup>lt;sup>4</sup> 7 Del. C. § 3908

or subdivisions, or from any other source, for use in carrying out the purposes of the district:

- (8) To sue and be sued in the name of the district; to make and execute contracts and other legal instruments, necessary or convenient to the exercise of its powers, with any federal, state or local agency, or with any person; and to receive and expend funds; and
- (9) To promote the conservation, protection, development and utilization of land and water resources through various informational and educational activities as the Board may deem necessary in the furtherance of its duties under this chapter.

Additionally, statute provides that any 2 or more soil and water conservation districts "may cooperate with one another or with the State or any agency or subdivision thereof in the exercise of all powers conferred upon such districts or any or all duties prescribed for such districts" by statute.<sup>5</sup>

# **Audits** NCCD

The New Castle Conservation District provided the following information with regard to audits:<sup>6</sup>

NCCD engages an independent auditor to conduct an audit of the district's financial statements annually. This audit is conducted in accordance with auditing standards generally accepted in the United States. The audit for 2007 is delayed due to DelDOT's audit (described below). The District Board and staff are subject to financial control procedures to assure internal review and approval of all purchases. The District's Personnel Policy includes an "Ethics" section.

An audit was conducted by an external accounting firm for DelDOT to evaluate the District's overhead charges. NCCD provided the following information with regard to that audit: <sup>7</sup>

The .. audit resulted in a revision of the billing methods allowed by DelDOT. In accordance with the Brooks Act, DelDOT reviewed the CPA's work papers and found them to be sufficient to accept the prepared overhead report. This results in an <u>approved billing rate of 91.78%</u>, that shall be valid from July 1, 2007 until June 30, 2008, when the District's December 31, 2007, overhead will be due. This rate is subject to adjustment upon receipt of additional information.

This audit also provides that for all years that work is performed under cost plus fixed fee contracts with DelDOT, the District is required to submit an indirect cost (overhead) audit report prepared, in accordance with the Federal Acquisition Regulations, subpart 31.2, prepared by an independent CPA firm or cognizant government agency. The District will be required for all future years to pick up the cost of a completed indirect cost audit by an independent CPA of our choice. The terms of the agreement will determine the appropriate rate to be utilized for negotiation and billing.

As of June 2007 the NCCD is complying with the new DelDOT billing procedure.

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<sup>&</sup>lt;sup>5</sup> 7 Del. C. § 3909

<sup>&</sup>lt;sup>6</sup> New Castle Conservation District, edits Draft Report, pg. 6

<sup>&</sup>lt;sup>7</sup> New Castle Conservation District JSC Additional Questionnaire, pg. 1

#### **KCD**

The KCD indicated that the fiscal portion of the KCD's operation is audited by an external auditing firm at the end of each fiscal year. As a result of the FY'06 audit, the KCD received the following recommendations with regard to strengthening internal controls and operating efficiency:<sup>8</sup>

#### • Bank Reconciliations

It is recommended that the responsible employee review the bank reconciliations for accuracy and completeness on a monthly basis.

As a result of this recommendation the responsible employee does review the bank reconciliations for accuracy and completeness on a monthly basis.

#### • Personal Use of Equipment

Management has authorized, on limited occasions, that the District's equipment may be used personally by employees. The District does not have a written policy regarding off premises use or personal use of District property.

It is recommended that there be policies and procedures established in writing regarding personal use of the District's equipment, including sensitive assets such as laptop computers. If "off premises" use is approved, a log should be maintained to track the asset removed, date removed, date returned, and responsible person.

At the Board of Supervisors meeting on December 17, 2007, the District Coordinator reported that no formal action had been taken on this recommendation. However;

reported that no formal action had been taken on this recommendation. However; informally, as a result of this recommendation, no personal use of equipment has been authorized nor has occurred since this recommendation was received.

#### Depreciation

As the quantity and dollar amount of property and equipment increase, it becomes more difficult to maintain accountability and record depreciation. Management may want to consider utilizing a formal depreciation software package. Depreciation is currently maintained on an electronic spreadsheet. It is recommended that the Peachtree depreciation module be used.

At the Board of Supervisors meeting on December 17, 2007, the District Accountant reported that specifications for a Depreciation module have been requested from the Sage Software, SB, Inc., the makers of the Peachtree Premium Accounting software the District currently uses. To date (December 20, 2007), no response has been received. This recommendation is still a work in progress.

#### • Accounting Manual

It is recommended that management establish a standard accounting and operating procedures manual outlining policies to be followed.

At the Board of Supervisors meeting on December 17, 2007, the District Coordinator and District Accountant reported that some notes have been prepared on a number of the accounting procedures as a prelude to writing a standard accounting and operating procedures manual as recommended. However, to date (December 20, 2007), there has not been ample time to focus specifically on the manual and prepare it in full. It is still a work in progress.

#### • Tax Ditch Funds

Tax ditch funds are collected by the District from property owners to set up tax ditch associations and are administered by DNREC. There has been very little activity in the tax ditch funds payable or receivable for years. Carrying these inactive accounts on the books causes the District extra accounting expense.

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<sup>&</sup>lt;sup>8</sup> Kent Conservation District Additional Questionnaire, pgs. 1-2

It is recommended that the District continue its efforts to properly resolve these accounts and further recommend an attorney be consulted to determine applicable state escheat law and procedures.

Subsequent to this recommendation the District was successful in returning all tax ditch funds referred to back to the respective tax ditches and/or owners and the accounts were closed.

Additionally, the State Auditor investigated the Harrington-Beaverdam Tax Ditch Association's operation in 2003. The Kent Conservation District was involved in this audit because a landowner within the Tax Ditch Watershed was questioning the validity of Tax Ditch funds being used for particular work performed by the Kent Conservation District's Equipment Program. The State Auditor's office concluded that the Tax Ditch Association was clear of any wrong-doing, which in turn cleared the Kent Conservation District Equipment Program as well.<sup>9</sup>

#### **SCD**

The Sussex Conservation District has an annual financial audit conducted by a certified public accountant firm. The following are the SCD's responses to the FY'06 recommendations: 10/11

- It was recommended that the SCD provide appropriate control through a written procedure for the use of credit cards, to ensure approval/documentation of expenditures, verification of receipts, and proper allocation of expenses.

  As a result of the management recommendations from the auditors, SCD implemented new controls to ensure that all receipts are placed with the credit card bills. The issue was handled verbally and no written procedure was put in place. There were only a few instances that receipts weren't placed with the bill which included items that were purchased via the telephone or internet. Since implementing the new procedures, SCD hasn't experienced any problems and has all receipts. The SCD plans to have written procedures in place that address the issued of credit card receipts, approval and documentation of expenditures, and proper allocation of expenses by March 31, 2008.
- The auditors recommended that the SCD implement a conflict-of-interest policy for the members of the Board that covers conflicts with vendors or customers, accepting or making of gifts, improper use of District assets for personal use, and confidentiality of District information.

  The SCD is in the process of adopting a Board of Supervisors' Handbook which includes a conflict of interest statement for Board members. The handbook basically explains in detail the fiduciary responsibilities of Board members, and addresses their roles and responsibilities and the importance of confidentiality by Board members. The handbook has been presented to the Board and is awaiting approval. The District has shared the Handbook with the other two conservation districts for
- The auditors recommended that the SCD establish an investment policy that maximizes interest income, keeps interest costs to a minimum, and formalizes a cash and investment policy including both long and short term objectives.

their feedback before approving.

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<sup>&</sup>lt;sup>9</sup> Kent Conservation District JSC Initial Questionnaire, pg. 18

<sup>&</sup>lt;sup>10</sup> Sussex Conservation District Additional Questionnaire, pg. 1

<sup>&</sup>lt;sup>11</sup> Email from Debbie Absher dated January 29, 2008

The SCD's accounting department is in the drafting stages of an investment policy that outlines and provides guidance and limitations for investing District assets.

#### **Administrative Procedures Act**

Each of the Conservation Districts responded that they do not promulgate rules and regulations. However, the DSWC is subject to the Administrative Procedures Act and promulgates rules and regulations. The Stormwater regulations pertain specifically to all the DSWC's delegated agencies. The Sediment and Stormwater Regulations and Dam Safety Regulations are both in the process of being developed with a regulatory advisory committee and neither is at the stage of needing legal review. Additionally, the DSWC promulgates rules and regulations regarding the election of members of the Conservation District boards.

# Freedom of Information Act NCCD/KCD/SCD

All of the Conservation Districts indicated that meeting notices and agendas are posted at least 7 days prior to the meeting date on each District's website, the DNREC bulletin board and in each of their respective offices. The DSWC posts this information for each of the three conservation districts on the State Calendar website.<sup>14</sup>

Each District indicated that it has a FOIA policy in place and the policy is followed. All meetings, except for Executive Sessions are open to the public and only held in accordance with the provisions specified in the FOIA statute. Meeting minutes are transcribed and are available for public viewing at the Districts' office. Meeting minutes are not available on the web, but copies will be sent out if requested.

### Memorandum of Understanding and Interagency Agreements NCCD/KCD/SCD<sup>15</sup>

The oldest agreement involving the District goes back to 1945 and provides the services of the United States Department of Agriculture's Soil Conservation Service (USDA-SCS) to cooperators of the District. This agreement was modeled after the federal Standard State Soil Conservation Districts Law of 1936. The original MOU with USDA was updated and signed in 1996 to supplement the original agreement. The Supplement provided for a name change for SCS to the Natural Resources Conservation Service as well as other housekeeping changes.

#### **NCCD**

New Castle Conservation District provided the following list of MOUs:

- Cooperative Working Agreement between the USDA, Natural Resources Conservation Service and The State of Delaware and The New Castle Conservation District *Cooperation in the Conservation of Natural Resources*.
- Memorandum of Understanding between the New Castle Conservation District and New Castle County – Assist the County in achieving an effective conservation program.

<sup>&</sup>lt;sup>12</sup> Division of Soil and Water Conservation, JSC Initial Questionnaire, pg. 66

<sup>&</sup>lt;sup>13</sup> Division of Soil and Water Conservation, edits Draft Report, pg. 9

<sup>&</sup>lt;sup>14</sup> Division of Soil and Water Conservation , edits Draft Report, pg. 9

<sup>&</sup>lt;sup>15</sup> New Castle Conservation District JSC Additional Questionnaire, pgs. 1 - 2

- Supplemental Agreement to Memorandum of Understanding (No. 1) between the New Castle Conservation District and New Castle County 3921 agreement for providing funding for Tax Ditches, Public Ditches and Resource Conservation Projects. (per 7 Del Code, Ch 39)
- Supplemental Agreement to Memorandum of Understanding (No. 2) between the New Castle Conservation District and New Castle County *Equipment Lease*.
- Supplemental Agreement to Memorandum of Understanding (No. 3) between the New Castle Conservation District and New Castle County – Sediment and Erosion Control.
- Supplemental Agreement to Memorandum of Understanding (No. 4) between the New Castle Conservation District and New Castle County *Fleet Automobile*.
- Reimbursable Agreement with USDA, Farm Service Agency and Natural Resources Conservation Services for the use of the copier and copier supplies.

#### **KCD**

Kent Conservation District provided the following list: 16

- Cooperative Working Agreement between the USDA, Natural Resources
   Conservation Service and the State of Delaware and the Kent Conservation District –
   Cooperation in the Conservation of Natural Resources.
- Agreement with DNREC-Division of Soil and Water Conservation that constitutes the basis of operations, and payments therefore, for soil conservation in the State of Delaware, mutually performed by DNREC-S&W and the District.
- Agreement with DNREC-Division of Fish and Wildlife that constitutes the basis of
  operations, and payments therefore, for the fisheries/wildlife program in the State of
  Delaware, mutually performed by DNREC-F&W and the District.
- Contribution Agreement between the Kent Conservation District and the USDA, Natural Resources Conservation Service – NRCS provides funding to accomplish a list of conservation goals.
- Project Agreements with DelDOT are formulated for specific projects as needed for the expenditure of Community Transportation Funding for the installation and implementation of drainage and/or conservation projects.
- Cooperative Agreement with U.S. Fish & Wildlife Service for wetland restoration work in the Chesapeake Bay and Delaware Bay watersheds.

#### **SCD**

Sussex Conservation District provided the following list:<sup>17</sup>

- Contribution Agreement between the Sussex Conservation District and the USDA, Natural Resources Conservation Service NRCS will provide funding to accomplish a list of goals.
- Cooperative Agreement with U.S. Fish & Wildlife Service for work at the Prime Hook National Wildlife Refuge
- Reimbursable Agreement with USDA, Farm Service Agency for the use of the copier and copier supplies.
- Project Agreement between DNREC, Division of Soil and Water Conservation, Kent Conservation District, and the Sussex Conservation District – development of a stormwater database.

<sup>&</sup>lt;sup>16</sup> Kent Conservation District JSC Additional Questionnaire, pgs. 2-3

<sup>&</sup>lt;sup>17</sup> Sussex Conservation District JSC Initial Questionnaire, pgs. 12 - 13

- Memorandum of Agreement between DNREC, Division of Soil and Water Conservation and the Sussex Conservation District regarding the assumption of the construction responsibilities performed by the Division of Soil and Water Conservation pipe crew.
- Supplemental Project Agreement 1 Assawoman Canal Dredging Project, with the DNREC Division of Soil and Water Conservation, regarding the dredge of the Assawoman Canal.
- Supplemental Project Agreement No. 2 Assawomoan Canal Dredging Project, with DNREC Division of Soil and Water Conservation regarding the dredging of the Assawoman Canal.
- Memorandum of Agreement between the Sussex Conservation District and the DNREC Division of Soil and Water Conservation regarding Nonpoint Source Pollution funding for the conservation planners. FY'07 & FY'08
- Memorandum of Agreement between the Sussex Conservation District and the DNREC Division of Soil and Water Conservation regarding Nonpoint Source Pollution funding for vegetative shoreline stabilization projects.
- Memorandum of Agreement between the Sussex Conservation District and the DNREC Division of Soil and Water Conservation regarding Nonpoint Source Pollution funding for cost-share for cover crops and other best management practices. FY'07 & FY'08
- Project Agreements with DelDOT are formulated for specific projects as needed for the expenditure of Community Transportation Funding for the installation and implementation of drainage and/or conservation projects.<sup>18</sup>
- Project Agreement between the Sussex Conservation District, DNREC Division of Soil and Water Conservation, and the Duke Jobs Tax Ditch regarding a maintenance accessway restablishment/demonstration in the Chesapeake Bay Watershed.

#### **Executive Orders**

The following Executive Orders affect the three Conservation Districts: 19

- Executive Order # 61 Regarding Green Infrastructure
   This Executive Order mandates that the Secretary of DNREC do a number of things, including improving coordination of conservation partners. The Conservation Districts are a conservation partner and works closely with DNREC staff to implement these types of projects. Specifically, the Conservation Districts do much of the actual earth-moving for these projects.
- Executive Order #62 Established a Task Force On Surface Water Management The Conservation Districts of the State were represented on this Task Force and played a major role in helping to formulate the 26 recommendations that came out of this task force.
- Executive Order # 87 Established the State Employees' Charitable Campaign This Executive Order established the State Employees' Charitable Campaign. The Delaware Envirothon, and the Delaware Association of Conservation Districts program.

<sup>&</sup>lt;sup>18</sup> Sussex Conservation District, edits Draft Report, pg. 11

<sup>&</sup>lt;sup>19</sup> Kent Conservation District Additional Questionnaire, pg. 3

- Federal Executive Order Cooperative Conservation
  The purpose of this Executive Order is to ensure that the Departments of the Interior, Agriculture, Commerce, and Defense and the Environmental Protection Agency implement laws relating to the environment and natural resources in a manner that promotes cooperative conservation, with an emphasis on appropriate inclusion of local participation in Federal decision-making, in accordance with their respective agency missions, policies, and regulations. The conservation districts participate in the USDA-NRCS Locally Led Conservation Program and the State Technical Committee providing recommendations on technical and financial assistance programs.
- Executive Order #103 Declaring a drought watch. This Executive Order requested that the citizens and businesses of the State observe voluntary water conservation measures to reduce water use (October, 2007)<sup>20</sup>

The following Executive Orders impacted the New Castle Conservation District:<sup>21</sup>

- Executive Order #32 Mandatory Water Conservation Measures. This Executive Order imposed mandatory water use restrictions in northern New Castle County. (August 2002)
- Executive Order #37 Terminating Drought Warning. This Executive Order terminated a drought warning implemented by Executive Order No. 29. (January, 2003)

#### **Judicial Decisions**

The DSWC provided the following with regard to judicial decisions affecting the conservation districts:<sup>22</sup>

...the conservation districts, particularly in Kent and Sussex counties, are instrumental in maintaining tax ditches, the recent federal court ruling on the Tulloch II rule is of importance. This recent ruling lessens the amount of bureaucratic red tape the conservation districts must deal with in the way of permitting prior to beginning work on tax ditch dip-out projects.

Delaware's conservation districts are affected by a decision made by a Chicago Federal Appellate Court regarding wetlands and Section 404 of the Clean Water Act. "In this decision the court found that the discharge of *de minimus* amounts of fill into wetlands during a construction project was not in violation of the federal Clean Water Act. This decision applies directly to District work in and near jurisdictional wetlands."<sup>23</sup>

<sup>&</sup>lt;sup>20</sup> Division of Soil and Water Conservation, edits Draft Report, pg. 33

<sup>&</sup>lt;sup>21</sup> New Castle Conservation District JSC Additional Questionnaire, pg. 2

<sup>&</sup>lt;sup>22</sup> Division JSC Initial Questionnaire, pg. 67

<sup>&</sup>lt;sup>23</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 22

#### **Federal Laws**

The following federal laws apply to the DSWC and each of the conservation districts:<sup>24</sup>

**Federal Clean Water Act – Section 402:** National Pollutant Discharge Elimination System (NPDES) governs the discharge of stormwater associated with construction activities. This Federal law impacts the delivery of stormwater services to the regulated community by all three conservation districts.

As a result of the Municipal Permit process that exists in New Castle County the New Castle Conservation District is affected by additional NPDES program responsibilities.

**Federal Clean Water Act – Section 401 and 404:** These sections govern the discharge of dredged or filled materials into waters of the U.S. When DSWC or the conservation districts are involved in drainage or water management projects, these laws affect some of the work that is undertaken, and in some cases permits are required. DSWC and or DNREC's Division of Water Resources may issue permits for these projects. DSWC may apply for the state and/or federal permits for many of these projects.<sup>25</sup>

In New Castle County, the NCCD may be involved in securing the permits on some projects that they administer.<sup>26</sup>

#### **Performance**

#### Mission

In the Declaration of Policy the enabling statute provides:<sup>27</sup>

It is the policy of the State to provide for the preservation of the productive power of Delaware land and the optimum development and use of certain surface water resources of the State by furthering the conservation, protection, development and utilization of land and water resources, including the impoundment, and disposal of water and by preventing and controlling floodwater and sediment damages, and thereby to preserve natural resources and promote their beneficial use, control floods, prevent impairment of dams and reservoirs, assist in maintaining the navigability of rivers and harbors, preserve wildlife, provide recreation development, protect the tax base, protect public lands and highways, and protect and promote the health, safety and general welfare of the people of this State.

#### **NCCD**

New Castle Conservation District indicated that its mission "is the promotion of wise use and protection of the natural resources of New Castle County." <sup>28</sup> The District's programs and policies are intended to assist landowners to utilize the federal and state natural resource programs that conserve the soil, water, wetland and habitat resources of the landowners of New Castle County. <sup>29</sup>

<sup>&</sup>lt;sup>24</sup> Division JSC Initial Questionnaire, pg. 66

<sup>&</sup>lt;sup>25</sup> New castle Conservation District, edits Draft Report, page 13

<sup>&</sup>lt;sup>26</sup> Division JSC Initial Questionnaire, pg. 66

<sup>&</sup>lt;sup>27</sup> 7 Del. C. § 3901

<sup>&</sup>lt;sup>28</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 18

<sup>&</sup>lt;sup>29</sup> New Castle Conservation District, edits Draft Report, pgs. 13 & 14

#### **KCD**

Kent Conservation District indicated that its mission "is to put each acre of land to the use for which it is best suited and to economically develop and improve our environment to its highest potential according to sound planning and conservation practices." <sup>30</sup>

#### **SCD**

Sussex Conservation District recently drafted an official mission statement which is, "The Sussex Conservation District's mission is to serve Sussex County residents by providing technical guidance and financial assistance to maintain and protect, and enhance and improve the environment." <sup>31</sup>

### Accomplishments

#### **NCCD**

The most significant accomplishment of the NCCD is the fact that it works with many State and federal agencies, groups of landowners or advocates, and private individuals to assemble those with common interests in a particular issue, accept ideas and contributions and complete projects. <sup>32</sup>

#### **KCD**

Kent Conservation District provided the following with regard to its most significant accomplishments:<sup>33</sup>

The Kent Conservation District program ...is one of the best examples ...of a highly coordinated federal, state, county and individual landowner cooperation in the carrying out of well balanced (soil, water, forest, wildlife, wetland) environmental programs. The result of which are established sound environmental best management practices on private, federal, state, and county lands through a voluntary, and cost incentive program. This is accomplished by providing coordination for on site technical assistance in inventorying, planning, construction layout and inspection, certification of application according to approved standards and specifications and on site follow through for proper maintenance.

One of the most important best management practices .. is the tax ditch program that has been carried out in Kent County and the State of Delaware since the 1951 Delaware Tax Ditch Law. This community type drainage is absolutely necessary in Delaware's urban and rural areas as an initial step in carrying out individual drainage practices which in turn allows for the proper establishment of best management practices for proper land use in over 1/3 of the State.

<sup>&</sup>lt;sup>30</sup> Kent Conservation District JSC Initial Questionnaire, pg. 12

<sup>&</sup>lt;sup>31</sup> Sussex Conservation District, edits Draft Report, pgs. 13 & 14

<sup>&</sup>lt;sup>32</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 14 - 15

<sup>&</sup>lt;sup>33</sup> Kent Conservation District JSC Initial Questionnaire, pg. 10

#### **SCD**

The Sussex Conservation District listed the following significant accomplishments:<sup>34</sup>

- The SCD receives a tremendous amount of participation in its cost-share programs.
   All of the programs are voluntary. The SCD receives more applications than it can fund.
- The SCD is extremely busy reviewing plans for compliance with the state regulations relating to erosion control and stormwater management. The District has been able to keep up with the development that is taking place in Sussex County the program has nearly tripled in size over the past ten years.
- In 2006, the Sussex District received a national award for partnership diversity for the National Association of Conservation Districts. The award was received due to SCD's unique diversity, not only in programs, partners, clientele and employees.

#### Challenges NCCD/KCD/SCD

The conservation districts share the following challenges:

- Post-Retirement Health Insurance for District Employees. One of the biggest challenges facing all three conservation districts is how to keep adequately trained personnel. The District is a governmental subdivision of the State of Delaware, and a member of the State of Delaware's Municipal & Local Government Pension Plan, and a part of the State of Delaware's Blue Cross Blue Shield Health Insurance Package. However; District employees are not afforded the opportunity for post-retirement Health Insurance coverage through the State of Delaware. No matter how long an employee works for the District, they will never have their health insurance paid for after retirement. This offers a huge challenge to the District in terms of employee retention. This lack of retention offers many challenges including lack of historical knowledge, and loss of training dollars when fully trained employees continue to leave the District for positions solely because they offer this benefit. If the District could offer this benefit to its employees it would help ensure a stable workforce, and increase their ability to retain highly trained employees.
- Additional Cost-Share Assistance for Landowners In order to meet the demand of the District's Cooperator's for Cost-Share assistance to install conservation practices, the District will have to continuously limit either the amount to each Cooperator, or the number of Cooperators it serves. Additional cost-share dollars for landowners would help make more of the needed conservation practices possible.
- Elimination of Tax Ditch Right-of-Ways 2007 House Bill #189 proposed to reduce Tax Ditch Construction Right-of-Ways currently recorded in the State of Delaware's Prothonotary's Office to a limit of 95 feet from the centerline of the ditch on agricultural lands, and 50 feet from the centerline of the ditch for other non-agricultural uses. Future ditch maintenance that may require a change in construction methods due to the limitation of the right-of-ways will undoubtedly cause an increase in costs. This increased cost would in turn lessen the amount of ditches that the District will be able to financially assist with their maintenance activities. Without the District's financial assistance many tax ditches would not be

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<sup>&</sup>lt;sup>34</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 8

able to perform needed maintenance, which will result in increased drainage problems throughout the county that the District in turn are tasked to investigate and attempt to find alternative solutions to. Solutions to these drainage problems may not exist without enough right-of-way or funding. These issues are currently being addressed by the Tax Ditch Right-of-Way Task Force. This task force is scheduled to provide final recommendations during the spring of 2008.<sup>35</sup>

#### **NCCD**

The New Castle Conservation District faces the following challenges:<sup>36</sup>

- The development of farmland into small acreage farmettes is presenting an educational challenge for good soil conserving practices. Many of these landowners have no experience with farmland or how to practice good conservation for soil and water resources. Improper management by small landowners of their resources often has a very lasting adverse effect.
- Many of the small acreage farms have a few horses for their own pleasure. They have no experience or training in how to handle the manure waste produced by their horses, how to dispose of or productively use it. The New Castle Conservation District provides information and guidance to them as requested. Many horse owners come under the Nutrient Management Law and they are unaware of the requirements. Others are not covered under the regulations but still have an adverse environmental impact on water quality. The horse population is growing in New Castle County.

#### KCD/SCD

Kent Conservation District and the Sussex Conservation District face the following challenges:<sup>37</sup>

- The stormwater program has had to deal with increased development within Kent and Sussex counties. The more people that move to each of these counties, and the more homes and commercial properties that are built on Kent and Sussex County farmland, the more issues the KCD and SCD must face. These issues range from drainage and wetland issues to neighbor relations, failed stormwater facilities, pollutant discharges from construction sites, along with a myriad of other issues.
- **Stormwater Facility Maintenance** Thousands of stormwater management facilities, predominately ponds, have been constructed over the past 18 years of the State of Delaware's Stormwater program. As the delegated agencies in Kent and Sussex counties, KCD and SCD collect fees for annual maintenance inspections of these facilities, though statute does not ensure ownership and/or responsibility for these facilities. If KCD or SCD find the facilities in need of maintenance there is no guarantee there will be a responsible person or entity to ensure it gets completed. Ownership of the facilities is retained by the developer and when the development is built out, the developer leaves the scene. The ownership is supposed to fall to homeowner associations, but there is no statute on the state or county level requiring a homeowner association to form. As a result, maintenance is negligent and results in stormwater facility failure or greatly diminished effectiveness. This is a

<sup>&</sup>lt;sup>35</sup> Division of Soil and Water Conservation, edits Draft Report, pg. 17

<sup>&</sup>lt;sup>36</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 18

<sup>&</sup>lt;sup>37</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 9

continuing need and could prove a need for great expenditures of money, expertise and manpower.

#### **SCD**

Sussex Conservation District faces the following challenges:<sup>38</sup>

• Lack of office space. The stormwater program has nearly tripled in 10 years time, placing a strain on the existing building. The SCD is investigating a new building large enough to house all of the SCD employees and the USDA partners located in the USDA Agricultural Service Center.

# **Opportunities for Improvement NCCD**

The New Castle Conservation District indicated the following as areas for improvement:<sup>39</sup>

Due to the long-term development impacts on New Castle County's urban/suburban watersheds, more attention and funding is needed to restore and enhance stream corridors through ecological stream restoration design principles. More landowners are also seeing the value and requesting that stream stabilization projects be done using ecological restoration methods.

Historically there were numerous mill ponds constructed during the late eighteenth century and in the nineteenth century. The mill ponds were constructed by low head dams placed across small streams and use[d] to operate mills and other needs of the agricultural industry. These dams served to capture sediment that would have normally been carried on downstream. This captured sediment filled the natural broad flood plains creating new elevated flood plains. Sometimes the flood plains ended up with three to twelve feet of sediment. The need for these mill dams diminished when electricity began to power the farms and grist mills. Many of the ponds created originally as mill ponds have been maintained or reconstructed as recreation and fishing ponds. Many were allow to deteriorate or were removed by the owners and the resulting morphological impact on the stream channel and flood plain have produced diminished flood plain flood water adaptation and exaggerated erosion and sedimentation problems. Also, in the flood plain areas, vegetation has developed on the excessive fill, primarily topsoil, and the entire natural water runoff regimen has been semi-permanently altered. The need for good conservation is to recognize these situations and handle them with full knowledge of future impacts on any actions planned. Each case must be examined individually and with whole watershed impact evaluated. A watershed analysis is needed for major restoration efforts and funding on a watershed basis to look at major water management problems.

#### **Reconstruction and Enhancement of Storm Ponds**

Several hundred storm ponds were constructed during the building boom in New Castle County during the 1980s. Many of these ponds had no provisions or directions for maintenance. The ownership was retained by the developer and when the development was built out, the developer left the scene. The ownership fell to homeowner associations who had no idea of what was needed or required to make the pond serve the

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<sup>&</sup>lt;sup>38</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 9

<sup>&</sup>lt;sup>39</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 15-17

intended purpose. As a result, pond maintenance was negligent and resulted in storm pond failure or greatly diminished its effectiveness. During the floods in the early years of the 21<sup>st</sup> Century, it became apparent that extensive maintenance was critical to the flooding issue in the County. This is a continuing need and will be a need for great expenditures of money, expertise and manpower.

#### **Habitat Restoration**

Open space makes up a significant percentage of land-use in many New Castle County subdivisions. Much of this is former agricultural fields and/or forested fringe areas that can quickly be taken over by invasive species or are kept in a mowed lawn condition. These are areas that should be managed for habitat restoration to link them together or to the existing natural riparian corridors adjacent to the community. Several programs and entities exist to provide some assistance, but additional funding and program support is needed to meet the future needs.

#### **Invasive Species Management**

Invasive Species management is becoming a necessity and a more integral part of most habitat restoration projects. While the Delaware Invasive Species Council has a statewide management plan, little state funding exists to provide adequate support for an overall coordinator to manage invasive species removal projects and to have the funds and manpower to implement such efforts. Coordination is needed among the various state agencies and private entities engaged in invasive species control and removal. Noxious invasive weeds need to be identified and corresponding laws or regulations need to be adopted and enforced.

#### **Stormwater Utility**

A stable funding and maintenance mechanism is required to facilitate the long term stormwater infrastructure needs in New Castle County. One method [that] is being considered to address that need is through the establishment of a stormwater utility. This process, closely following the historic Delaware Tax Ditch Law, will provide for owners to pay for the modifications to the water management and drainage infrastructure and address the water management, flooding and drainage needs in cooperation with state and county governments.

#### **Urban Water Management**

The current issues of stormwater management, flooding, and water quality requirements under federal and state laws require some innovative thinking when it comes to water management. There are several techniques, both new and old, that need further review and demonstration projects to determine their feasible use in New Castle County. Limitations such as clay and impacted soils, small lot sizes, etc. will determine which course of action to take. Some of the new innovative methods that can be used to disconnect water from entering the storm sewer systems and thus entering local streams are:

- The use of rain barrels under downspouts to collect the first flush of rainfall from roofs of houses.
- The installation of dry wells in yards to collect water and let it slowly percolate back into the soil.
- The use of cisterns to hold larger amounts of water to be used for lawn and garden irrigation purposes. A homeowner in the Newark area has installed a 500 gallon cistern under the rear deck. The roof gutters drain into the cistern and there is a pump to use the water in the yard for irrigation.

- The installation of rain gardens to hold surface water and slowly percolate down through the soil horizon. This is a form of bio-infiltration. There are various low and high tech versions of this technique that could be demonstrated. Special soil mixes have been developed to facilitate water retention and percolation and subsurface tile drains could be included in the design. The rain gardens also include the use of native moisture tolerant plants. There are many outstanding publications now in print dealing with this practice. DNREC Division of Water Resources has hired an urban planner who has begun the implementation of rain gardens in Kent and Sussex counties. This service is not provided to New Castle County owners.
- Hooking household rain gutters directly to the storm sewer system should only be
  practiced after alternatives that recharge ground water have been employed. New
  Castle County currently has ordinances in place to eliminate the practice of
  allowing rain gutters or sump pumps to discharge into the County sanitary sewer
  system. A program needs to be developed that encourages practices for ground
  water recharge.

The point of these practices is again to try to reduce the amount of water entering a stream directly or by being connected to the storm sewer system in the street, thus reducing the flow of stormwater to area watercourses. A few projects have been completed by various entities in New Castle County but not many are on private residential lots.

#### **KCD**

The Kent Conservation District indicated the following as an area for improvement: 40

**Personnel Policy Manual** – A complete personnel policy manual has been in draft form since 1994. The purpose for the delay has been the inability of the District and State of Delaware staff to come to agreement on how the District's staff working in/around/and for State of Delaware staff will be addressed. In the meantime, policies for employee benefits, i.e. sick and annual leave, have been approved by the Board of Supervisors and made available to District employees. It would greatly benefit the employees of the Kent Conservation District to have a complete Personnel Policy Manual that is applicable to all employees, regardless of their immediate supervisor or location throughout the state.

#### KCD/SCD

Kent and Sussex Conservation Districts listed the following as areas for improvement: 41

Additional Cost-Share Assistance for Landowners – The current levels of Cost-Share dollars made available to landowners throughout the Districts do not meet the demand. As Kent and Sussex Counties become more populated, and we as a society learn more about the human impact on the environment, more landowners are tasked with installing conservation practices on their lands. Meeting the demand for cost-share dollars would have a direct positive impact on the environment in which we live.

**Stable Funding For Nutrient Management Planners** – The State of Delaware's Nutrient Management Law, Chapter 2247, section (j) states that the State shall make nutrient consultants available through the conservation districts to provide free nutrient

<sup>&</sup>lt;sup>40</sup> Kent Conservation District JSC Initial Questionnaire, pgs. 10-11

<sup>&</sup>lt;sup>41</sup> Sussex Conservation District JSC Initial Questionnaire, pgs. 8 - 9

management plans assistance to anyone requesting such assistance, however, the State does not offer stable funding for these positions. The Districts' Nutrient Management Planners are funded by grants through DNREC's Section 319 Non-Point Source Pollution Program and the State's General Fund. The Kent District planners also receive funding from the USDA-Natural Resources Conservation Service. These funding sources are being cut nationally every year, and the fear of this happening limits the number of quality candidates the Districts have to choose from. People are often too apprehensive of the "soft money" positions to apply for them. Stable state funding for these positions would help the Districts recruit and maintain good employees.

# **Coordination of Services with other Agencies NCCD**

New Castle Conservation District provided the following with regard to coordination of services with other agencies:<sup>42</sup>

The District coordinates responsibilities for drainage issues with New Castle County and the Delaware Department of Transportation (DelDOT). New Castle County handles drainage issues with new developments up to a year after completion. DelDOT handles drainage issues within their rights-of-ways. The District, when requested and funds are provided, handles drainage issues on private landowners no longer under the new development category. The District routinely handles issues after the problem is affected by DelDOT work but is on privately owned land. Cooperative projects between all three agencies take place on a regular basis. The New Castle County Executive or a designated representative is a member of the NCCD Board of Supervisors. The NCCD's Project/Urban Committee includes representatives from New Castle County and DelDOT.

The District works with [its] Federal partners at the USDA – Natural Resources Conservation Service and the Farm Service Agency to assist in the implementation of various conservation projects on private landowners and conservation programs under the Farm Bill. A formal agreement between the District and NRCS dates back to the federal law commonly referred to as "districts enabling law." Under this 1936 Law, USDA will provide technical assistance to cooperators with local conservation districts for the purposes of soil and water conservation. This same law provides the services of the Natural Resources Conservation Service in effect today...

The District works with DNREC to provide assistance for the implementation of various conservation projects such as flood abatement, drainage, wetland creation, and habitat restoration. Often federal programs or the State Conservation Cost-Share program provides financial assistance for the District to assist landowners.

The District provides assistance to communities for open space restoration projects that may not fit the eligibility requirements of existing programs offered under the DSWC's Coastal Zone Management (CZM) program or the state urban forestry program or as a way to supplement a community's grant requests for assistance from those programs. One example is the community of Meadowdale where CZM

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<sup>&</sup>lt;sup>42</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 18-20

program funds and District Cost-Share funds were used to facilitate a riparian corridor enhancement project.

The District is one of the sponsors of the First State Resource Conservation and Development Council, Inc., a non-profit council under the oversight of USDA-NRCS. The Council takes on natural and human resource projects state-wide – looking for issues and niche projects not being directly addressed by current programs or which can be supplemented by the Council.

The District is a local authorized recipient of funds from the Federal Emergency Management Administration to assist owners in flood proofing their structures against further flooding. FEMA provides financial assistance to mitigate future flood claims for flood damages.

The District has cooperated with the US Army Corps of Engineers in several projects dealing with sunken vessels and flooding problems. The District has served as the local sponsor for technical review and financial cost sharing.

The District has been able to utilize funds from the US Environmental Protection Agency to assist owners in conservation problems and develop remediation plans to promote good conservation on the land.

The District regularly cooperates with the Delaware Department of Agriculture in joint efforts assisting farmers and woodland owners with various joint interests.

The close cooperation with the University of Delaware Cooperative Extension Service, is on-going and effective in producing good conservation with farmer and non-farmer owners.

New Castle County is a close partner with the New Castle Conservation District. Many projects are jointly funded between the County and other interests. The County provides funding as required under Chapter 39 of Title 7 for Tax and Public Ditches as well as other projects throughout the year.

In 2005 the State allocated substantial funding to New Castle County to reconstruct failing stormwater ponds in New Castle County with the assistance of the New Castle Conservation District. This was intended to be a \$10 million infusion for this purpose over a three year span, however because of budget limitations, the state allocation was reduced for FY 08 and will extend the program for additional fiscal years. The New Castle Conservation District assisted with about 60 percent of these retrofits and is expected to continue this role for several years. The District is also cooperating with DNREC and the County in innovative methods for handling storm water that will reduce future maintenance expense.

New Castle County Code refers to the District in their Unified Development Code (UDC) as TAC (Technical Advisory Committee) and RPATAC (Resource Protection Area Technical Advisory Committee) member. This is to provide technical assistance in reviewing development plans. In the UDC §12.01.003, the District is listed as assistance for flooding problems. The District is routinely included in the

County's Capital Budget and Operating Budget for financial assistance to District programs and projects.

In summary, the District cooperates with many other agencies that are interested in having local sponsorship and coordination to serve landowners and promote good conservation.

#### **KCD**

Kent Conservation District provided the following with regard to coordination of services with other agencies:<sup>43</sup>

The Kent Conservation District is charged under state law with the responsibility to protect and enhance the soil and water resources of the State. It has been given broad authority, the most significant of which is to enlist the aid of state and federal agencies.

Districts were conceived as local bodies to bridge the gap between the landowner and the federal agency charged with protecting the nation's soil resources from erosion – the Natural Resources Conservation Service of the United States Department of Agriculture. The NRCS is a professional organization administering a number of federal soil conservation programs, some though the districts. The team of professionals reach the landowner through district memorandums of understanding with the USDA and the NRCS. A working relationship has developed that is mutually effective. The presence of USDA-NRCS in Delaware was a result of an initial request by the Conservation Districts.

Much of the Districts' effectiveness is due [to the] ability to work with local, state, and federal agencies to solve local environmental problems. As [previously] discussed, Kent Conservation District enters into agreements (memorandums of understanding) with cooperating agencies and organizations that outline the obligations of each party and the assistance available. Kent Conservation District operations are supported by federal, state and local governments and private individuals. In addition to the USDANRCS, DNREC also provides technical leadership to Kent Conservation District.

Additional cooperating agencies include:

- The University of Delaware's Cooperative Extension Service
- The USDA Farm Service Agency
- The Delaware Department of Agriculture (DDA)
- The United States Fish & Wildlife Service
- The First State Resource Conservation and Development Council
- EPA Chesapeake Bay Program
- Delaware Nutrient Management Commission
- National Association of Conservation Districts

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<sup>&</sup>lt;sup>43</sup> Kent Conservation District JSC Initial Questionnaire, pg. 12

#### **SCD**

Sussex Conservation District provided the following with regard to coordination of services with other agencies:<sup>44</sup>

The relationship between the SCD and NRCS began in the 1940s with the inception of the conservation districts. The NRCS provides technical supervision in efforts to protect and enhance our natural resources and improve water quality. NRCS manages several programs to protect natural resources, and the conservation district helps deliver these programs to the farming community. The success of these programs falls directly on the shoulders of both agencies and the working relationship that is in place ensures that these programs are delivered with great success.

Another agency that the SCD has a MOU is the Delaware Department of Natural Resources and Environmental Control (DNREC). There are agreements with several of the divisions within DNREC, including the DSWC, Nonpoint Source Program, and the Division of Water Resources. DNREC enters into these agreements with the conservation district because of the District's ability to work at the local level, with many organizations and government agencies. The SCD is very effective in coordinating efforts between more than one agency. For example, SCD has brought together representatives from the state, federal, and county government agencies with great success. This too is a long standing relationship. Also, the DSWC - District Operations provides guidance and leadership on many issues that face the district.

Following is a list of cooperating agencies that the SCD works closely with to meet its goals of improved and enhanced water quality and protection of natural resources:

- USDA Natural Resources Conservation Service
- USDA Farm Service Agency
- U.S. Fish and Wildlife Service
- DNREC Division of Soil and Water Conservation
- DNREC Division of Water Resources
- Delaware Department of Agriculture
- University of Delaware Cooperative Extension Service
- Sussex County Council
- Center for Inland Bays
- EPA Chesapeake Bay Program
- Delaware Nutrient Management Commission
- National Association of Conservation Districts

#### The Role of the Division of Soil and Water Conservation<sup>45</sup>

The DSWC is very diversified and many of its programs and functions do not involve the conservation districts. Of the four sections in the DSWC, the District Operations Section is naturally the most tightly bonded with the conservation districts. This section assumes the administrative oversight role for the Department, so interaction with and providing guidance to the conservation districts is in and of itself one of the primary objectives of this section.

<sup>&</sup>lt;sup>44</sup> Sussex Conservation District email dated January 23, 2008

<sup>&</sup>lt;sup>45</sup> Division JSC Initial Questionnaire, pgs. 58-59

The DSWC Director and the District Operations Section provide administrative overview for the conservation districts through the authority vested with the DNREC Secretary. In practice, DNREC approves conservation district budgets, authorizes budget adjustments, appoints Board members, and gives overall direction to the conservation districts. However, the districts are free to develop their own programs, provided they support the purposes spelled out in statute. The District Operations Environmental Program Administrator or designee attends all conservation district Board meetings to assist the Board members and ensure that all Board actions are enacted properly.

The District Operations Section also administers several programs that support the conservation districts.

#### **Delaware Association of Conservation Districts and the National Association of Conservation Districts**

Kent Conservation District's website provided the following information: 46

Delaware's district supervisors have a statewide organization known as the Delaware Association of Conservation Districts (DACD). DACD is a voluntary, non-profit alliance, providing a forum for discussion and coordination among the districts as they work to ensure the wise use and treatment of renewable natural resources.

The 3,000 conservation districts across the United States belong to the National Association of Conservation Districts (NACD). This organization's primary goal is the conservation, orderly development, and the judicious use of the nation's resources.

Both of these organizations make the effort of conservation districts more effective by providing a vehicle through which the conservation districts can band together to promote their causes at the state and national levels.

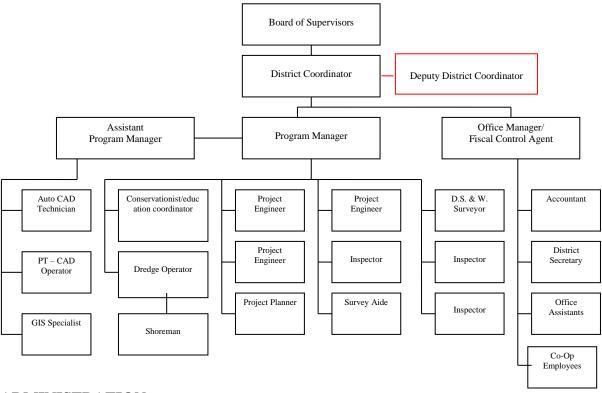
# The New Castle Conservation District

The New Castle Conservation District currently has 22 employees. These employees are not State merit employees but rather employees of the New Castle Conservation District.<sup>47</sup> All staff work for the Board of Supervisors, however no staff members are specifically assigned to assist the Board. The District Secretary prepares the board packet for the monthly Board meetings and makes appointments for Board members as needed.

<sup>46</sup> http://kentcd.org/aboutus.htm

<sup>&</sup>lt;sup>47</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 24 - 25

#### **New Castle Conservation District Organizational Chart**



#### **ADMINISTRATION**

- **District Coordinator** Manager of the Conservation District;
- **Deputy District Coordinator** Assists and advises District Coordinator;
- Office Manager/Fiscal Agent Responsible for fiscal administration, personnel, employee benefits, contract administration, and facilities management;
- Accountant Responsible for all accounting functions, payroll, cash management, and State and federal tax reports;
- **District Secretary** Provides administrative support for staff, maintains district website and program databases, serves as initial point of contact with public; and
- Office Assistants (part-time) Provides supplemental clerical and administrative support during high volume periods.

#### **CONSERVATION PROGRAM**

- Program Manager Manages all engineering assistance for planning, design and construction of projects;
- **Assistant Program Manager** Provides engineering & technical assistance for landowner and community conservation projects;
- Project Engineer Provides engineering services and contract administration on community and landowner conservation projects;
- Project Planner Coordinates project inspection and provides technical assistance to landowners;
- **Conservationist/Education Coordinator** Provides assistance for district education and outreach programs and assists with tax ditch and urban conservation projects;
- **Inspector** Performs inspection for construction of conservation projects;
- **Surveyor** Provides survey services for conservation projects;
- Survey Aide Provides field assistance to Surveyor;

- AutoCAD Technician Drafts technical plans and construction details for conservation projects;
- CAD (Computer Aided Design) Operator (part-time) drafts technical plans for conservation projects; and
- Geographic Information Specialist (GIS) vacant. This position provides assistance for locating all projects and location details for problem areas to determine better long range conservation assistance needs.

#### DREDGE PROGRAM

- Dredge Operator operates and maintains dredge and related equipment to remove accumulated sediment from Delaware's lakes, rivers, ponds, harbors, and other waters of the State;
- **Shoreman** Assists Dredge Operator as required including installing and maintaining pipeline from dredge to dredge spoil disposal sites.

The New Castle Conservation District indicated that staff is recruited through advertisements and referrals. Staff is eligible for and offered many professional training courses in specific technical fields. DNREC courses are also available to staff.<sup>48</sup>

When asked whether the effectiveness of the Conservation District is hampered by a lack of staff assistance, the District stated that it has the ability to outsource to cover peak workload periods.<sup>49</sup>

# **The Kent Conservation District Staff**

The Kent Conservation District currently has 71 employees, none of which are State merit employees, but are employed by the Kent Conservation District. These employees are not considered employees of the State, County, any municipality or any other agency or private entity. All staff work for the Board of Supervisors, however no staff members are specifically assigned to assist the Board.

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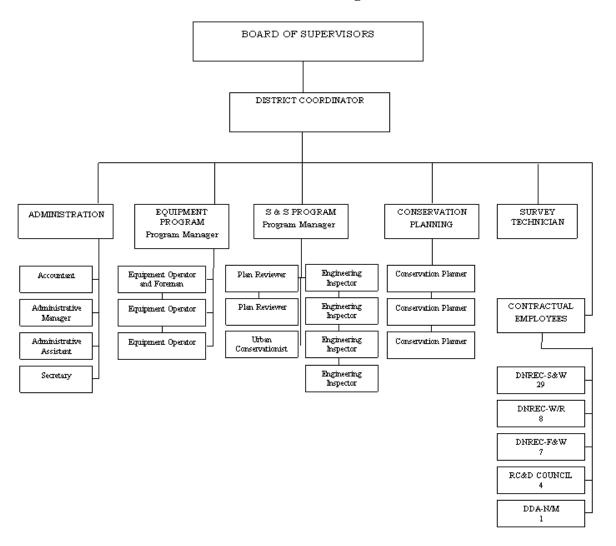
<sup>&</sup>lt;sup>48</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 24 - 25

<sup>&</sup>lt;sup>49</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 24 - 25

<sup>&</sup>lt;sup>50</sup> Kent Conservation District JSC Additional Questions, pg. 5

<sup>&</sup>lt;sup>51</sup> Kent Conservation District JSC Initial Questionnaire, pg. 21

#### **Kent Conservation District Organizational Chart**



#### **ADMINISTRATION PROGRAM**

- **District Coordinator** Oversees all programs of the Kent Conservation District.
- **District Accountant** Manages all of the fiscal activities of the Kent Conservation District.
- **Administrative Manager** Provides administrative support to the District Coordinator.
- **Receptionist** Office support for all Kent Conservation District programs.

#### AG CONSERVATION PROGRAM

• **Conservation Planners** - In-Field; Assists landowners in developing Conservation Plans.

#### **DRAINAGE & TAX DITCH PROGRAM**

• **Survey Technician** - In-Field; Plans and coordinates construction of conservation projects.

#### **EQUIPMENT PROGRAM**

- **Equipment Program Manager** In-Field; Supervises the construction and installation of conservation projects.
- Equipment Operator In-Field; Constructs and installs conservation projects.

#### SEDIMENT & STORMWATER PROGRAM

- **Program Manager/Stormwater Engineer** Oversees all activities of the KCD Sediment & Stormwater Program.
- **S&S Program Administrative Assistant** Office support for the Sediment & Stormwater Program.
- **S&S Engineer** Reviews submitted engineering plans for Sediment & Stormwater compliance.
- **S&S Plan Reviewer** Reviews submitted engineering plans for Sediment & Stormwater compliance.
- **Engineering Inspector** In-Field; Inspects construction activities for Sediment & Stormwater compliance.
- **Urban Conservationist** Assists Homeowners Associations in Kent County in developing Conservation Plans.

#### CONTRACTUAL EMPLOYEE PROGRAM

- Engineering/Planning/Surveying Technician II Support for Shoreline and Waterway Management Section; surveying, tracking, planning.
- **Environmental Scientist III** Oversees State Beach Preservation Act compliance for construction activities along the Coast.
- Planner II Drafts engineered plans for conservation projects.
- Engineering/Planning/Surveying Technician IV In-Field; Plans and inspects construction of conservation projects.
- Environmental Control Technician III Collects fish health data in-field, and tracks and analyzes it in the lab.
- **Environmental Scientist I** In-Field; Inspects State construction activities for Sediment & Stormwater compliance.
- Operations Support Specialist Office support for the Division of Soil & Water.
- **Environmental Scientist** Analyzes water quality data collected in-field, and assists in development of regulations.
- **Environmental Scientist IV** Plans and implements shoreline management projects.
- **Environmental Scientist I** Data collection and other support for the Avian Influenza Surveillance Program.
- **Environmental Scientist II** Support for all Fish & Wildlife Landowner Incentive Program activities.
- Administrative Specialist III Office support for the Watershed Assessment Section.
- **Zoologist** Studies animal and insect life throughout the state to determine health and population figures.
- **Environmental Scientist III** Studies plant life throughout the state to determine health and population figures.

- **Environmental Scientist II** Studies shorebird and aquatic life throughout the state to determine health and population figures.
- **Ecologist** Studies animal and plant life within selected watersheds to determine health and population figures.
- **Senior Application Support Specialist** Develops and maintains computer maps of conservation projects.
- Civil Engineer V Drafts and reviews engineering plans for conservation projects.
- Laborer/Truck Driver In-Field; Constructs and installs conservation projects.
- Laborer In-Field; Constructs and installs conservation projects.
- **Foreman** In-Field; Supervises the construction and installation of conservation projects.
- **Housing Programs Director** Oversees the entire Resource Conservation & Development Council's Emergency Home Repair Program.
- Office Assistant/Volunteer Coordinator Office support for the Resource Conservation & Development Council's Emergency Home Repair Program.
- Field Coordinator I Plans and manages Emergency Home Repairs.
- Carpenter Supervises and assists construction of Emergency Home Repairs.
- Engineering/Planning/Surveying Technician I CAD support for the computer mapping of conservation projects.
- **Engineering/Planning/Surveying Technician II** In-Field; Surveys land for the installation of conservation projects.
- Engineering/Planning/Surveying Technician II In-Field; Plans and inspects construction of conservation projects.
- Engineering/Planning/Surveying Technician III In-Field; Supervises surveying of land for the installation of conservation projects.
- Engineering/Planning/Surveying Technician III In-Field; Plans and inspects construction of conservation projects.
- **Engineer I** Engineers designs of conservation projects.
- Administrative Specialist I Office support for the State's Drainage Program.
- **Environmental Control Technician I** Support for Holding Tank Program; Performs annual inspections and maintains records.
- Sand Bypass Operations Manager Manages all in-field activities of the Beach Replenishment Program.
- **CREP Coordinator** Plans and coordinates Conservation Reserve Enhancement Program.
- Clerical Office Support for the State's Nutrient Management Program.
- **Environmental Scientist I** Support for Wetland Assessment Section; Collects, compiles, and analyzes data from wetlands.
- **Environmental Scientist I** Assists in; Development of Pollution Control Strategies, Implementation of Tributary Action Teams.
- **Environmental Scientist II** Support for Wetland Assessment Section; Process permits in accordance with state regulations.
- **Environmental Planner I** Provides outreach activities for; Tributary Action Teams, Implementation of Wetlands goals.
- **Environmental Planner** Assists Homeowners Associations statewide in managing open space.

The Kent Conservation District indicated that staff is recruited through open advertising in local and state newspapers, postings in appropriate locations, and word of mouth.

Interviews of potential candidates are conducted by Kent Conservation District staff, as well as staff representing the office in which the position is located.

District staff is eligible for and offered many training opportunities both through cooperating agencies and in the private sector. The State of Delaware, the University of Delaware, the USDA Natural Resources Conservation Service, and the U.S. Fish and Wildlife Service are just a brief listing of some of the agencies that in the past have offered training to Kent Conservation District staff.<sup>52</sup>

When asked whether the effectiveness of the Conservation District is hampered by a lack of staff assistance, the Kent Conservation District provided the following response:<sup>53</sup>

... the District Sediment and Stormwater Program can be hampered by a lack of staff. The volume of plan submission at times exceeds the ability of the District Stormwater Staff to get plans turned around within a 30-day time frame, which is the goal of the program.

The two main reasons the District has not remedied the situation by hiring additional staff are:

- 1. Additional staff would require the District to increase its fees, which receive a significant amount of criticism as they are now. The fees have been increased on a regular basis since the programs inception in 1990, and are at a level now the District Board feels the market can handle.
- 2. The position the District needs to remedy the plan turnaround issue is that of Engineer. Unfortunately, in terms of salary, the District cannot compete with private industry. Again, in order to do so would require an increase in fees beyond what the District Board feels appropriate for the market.

The Kent Conservation District indicated that in an effort to address this issue, the District "keeps a constant search for retired engineers looking for part-time work. This is an avenue that has proven very valuable in the past."

The Kent Conservation District does have a Personnel Policy Manual that has been in draft form since 1994, and has undergone various revisions. As explained in the "Opportunity for Improvement" section of this Report, the reason the manual has not been officially approved is due to the "inability of the District and State of Delaware staff to come to [an] agreement on how the District's staff working in/around/and for State of Delaware staff will be addressed. In the meantime, policies for employee benefits, i.e. sick and annual leave, have been approved by the Board of Supervisors and made available to District employees."<sup>54</sup>

## **The Sussex Conservation District** Staff

The Sussex Conservation District has 30 employees that are Conservation District employees and are not subject to the state merit rules. There are 26 full time and 4 part time employees. <sup>55</sup>

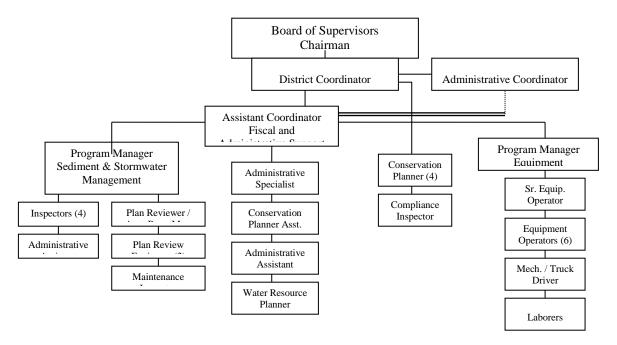
<sup>&</sup>lt;sup>52</sup> Kent Conservation District JSC Initial Questionnaire, pgs. 20 & 21

<sup>&</sup>lt;sup>53</sup> Kent Conservation District JSC Initial Questionnaire, pg. 21

<sup>&</sup>lt;sup>54</sup> Kent Conservation District JSC Initial Questionnaire, pgs. 10 & 11

<sup>&</sup>lt;sup>55</sup> Sussex Conservation Additional Questionnaire, pg. 4

#### **Sussex Conservation District Organizational Chart**



The Sussex Conservation District indicated that staff is recruited by posting the position in local papers and The Guide. Job announcements are also posted on the District's website.<sup>56</sup>

Each new employee undergoes a brief orientation session explaining policies, guidelines, site visits, etc. District staff is eligible for and offered many training opportunities both through cooperating agencies and in the private sector. The State of Delaware, the University of Delaware, the USDA Natural Resources Conservation Service, and the U.S. Fish and Wildlife Service are just a brief listing of some of the agencies that in the past have offered training to Sussex Conservation District staff. The staff is also encouraged to receive other training to improve their skills and abilities.<sup>57</sup>

Below is a listing and brief description of each position:<sup>58</sup>

#### **ADMINISTRATION**

- **District Coordinator** Manager of the Conservation District.
- **Assistant District Coordinator** Assistant manager, also responsible for the fiscal administration, i.e., accounting.
- **Administrative Coordinator** Administrative Asst. to the Coordinator. Responsible for cost-share program and benefits admin. i.e. health insurance.
- Conservation Planner Assistant Assists Conservation Planners in nutrient management and other facets for planning, administers State Revolving Loan Fund Program, assists with reception.
- Administrative Assistant General reception of the Berlin Road office. Provides administrative support to staff located at Berlin Road office.

<sup>&</sup>lt;sup>56</sup> Sussex Conservation Additional Questionnaire, pg. 7

<sup>&</sup>lt;sup>57</sup> Sussex Conservation District, edits Draft Report, pg. 30

<sup>&</sup>lt;sup>58</sup> Sussex Conservation District Additional Questionnaire, pgs. 6-7

• Administrative Specialist – Assists Assistant Coordinator with accounting and billing.

#### AG CONSERVATION PROGRAM

- **Sr. Planner** Performs conservation planning by providing technical assistance to landowners.
- Conservation Planner Performs conservation planning by providing technical assistance to landowners.
- **Compliance Inspector** Performs inspections on best management practices to ensure that they are being used as intended.

#### **EQUIPMENT PROGRAM**

- **Program Manager** Manages the District's Heavy Equipment.
- **Sr. Operator** Completes heavy equipment projects as assigned by the Equipment Manager.
- **Operator** Completes heavy equipment projects as assigned by the Equipment Manager.
- **Mechanic/Truck Driver** Moves equipment from site to site and performs necessary maintenance on an as needed basis.
- Water Resource Planner Works closely with Tax Ditch Officers by providing technical assistance for the tax ditch organizations in Sussex County.

When asked whether the effectiveness of the Conservation District is hampered by a lack of staff assistance, the Sussex Conservation District provided the following response:<sup>59</sup>

For the most part no. However, the stormwater program is extremely busy and could use additional staff members to provide better service to the citizens of Sussex County.

There are two reasons, funding and space.

[The District] is currently in the process of hiring a new stormwater plan review engineer to assist with the workload. The cost of an engineer is very expensive but it is necessary to have an engineer available on staff to handle any issues that may arise. Secure funding to hire this person isn't available. The stormwater program collects fees to run the program, however it must be run for perpetuity. Any fees that are collected for inspection and maintenance must be placed in a separate fund for the future.

The other reason is space. [The District] is currently investigating the possibility of a new building that would accommodate the entire district staff. There is not enough room in the current District building to hold the appropriate number of staff needed to effectively run this program.

## **Board of Supervisors**

Statute provides that each District have a Board consisting of up to 7 Supervisors. Four elected supervisors who are farmers residing in the respective County – in New Castle two farmers shall reside in the southern portion of the County and the remaining two members shall not be farmers and shall reside in the northern portion of the County. Each Board may also include an optional supervisor who, in Kent County shall be a member of Levy Court,

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<sup>&</sup>lt;sup>59</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 14

Sussex County a member of County Council (although statute refers to Levy Court) and in New Castle County the optional supervisor shall be the County Executive or his/her designee. Each Board shall also include 2 optional supervisors who shall not be farmers and may be appointed by the Secretary of DNREC upon request of the district involved. The vote and authority of each supervisor shall be equal except that the County Agricultural Agent shall serve as the secretary to the Board and not have a vote. The Chairperson shall be elected by the Board.

Statute provides that the term of office for each elected supervisor is 4 years and for each appointed supervisor the term is 3 years. The optional supervisor appointed by Levy Court shall hold office at the pleasure of the Board as long as the supervisor remains a member of Levy Court. The Secretary of DNREC has the authority to fill the vacancy of any elected or appointed supervisor.<sup>60</sup>

#### **NCCD**

New Castle Conservation District has 7 Board members. Appointed members serve a 3 year term. Regular members serve a 4 year term. 61

#### **KCD**

Kent Conservation District has 10 Board members. Appointed members serve a 3 year term. Elected Farm members serve a 4 year term. Associate (non-voting) members - Approved by DNREC serve a 3 year term. 62

The KCD Board of Supervisors includes three more members than provided for in statute. The DSWC indicated that these are Associate Members with no voting authority who were appointed to lend their particular expertise to the Board of Supervisors. The DSWC also indicated that this is common practice by conservation districts across the country and the practice is also endorsed by the National Association of Conservation Districts.<sup>63</sup>

#### **SCD**

Sussex Conservation District has 8 Board members, which is one more member than prescribed by statute. Appointed members serve a three year term. Elected members serve a 4 year term.<sup>64</sup>

## Removal from Office NCCD/KCD/SCD

Any member of the Board of Supervisors for each conservation district may be removed from office by the Department of Natural Resources and Environmental Control, upon notice and hearing for neglect of duty or misconduct.

<sup>60 7</sup> Del. C. § 3906

<sup>&</sup>lt;sup>61</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 23

<sup>&</sup>lt;sup>62</sup> Kent Conservation District JSC Initial Questionnaire, pg. 18

<sup>&</sup>lt;sup>63</sup> Division of Soil and Water Conservation, edits Draft Report, pg. 56

<sup>&</sup>lt;sup>64</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 13

#### **NCCD**

New Castle Conservation District indicated that a Board member was removed as a result of personal misconduct resulting in the Board member's arrest and conviction of offenses unrelated to Board activities and NCCD programs. <sup>65</sup>

#### KCD/SCD

Kent<sup>66</sup> and Sussex<sup>67</sup> Conservation Districts indicated that a Board member has never been removed.

#### Compensation

#### **NCCD**

Members are compensated at the rate of \$100 per Board meeting and reimbursed for expenses related to Board activities (mileage). 68

#### <u>KCD</u>

Members are on the District payroll as part time employees and receive a stipend of \$125 per meeting attended on behalf of the District. <sup>69</sup>

#### **SCD**

Board members are on the District payroll and are compensated at the rate of \$100 per Board meeting. The Board Chair receives \$150 per meeting. The treasurer receives \$25 per visit to the office once a week to sign checks. If there are special meetings, all Board members that attend receive \$50 for a meeting that is less than a half a day long, and \$100 for meetings that last all day. The stream of the payroll and are compensated at the rate of \$100 per Board meetings. The treasurer receives \$25 per visit to the office once a week to sign checks. If there are special meetings, all Board members that attend receive \$50 for a meeting that is less than a half a day long, and \$100 for meetings that last all day.

#### **Training**

#### NCCD/KCD/SCD

All three conservation districts indicated that Board members are offered the following training opportunities:

- National Association of Conservation Districts (NACD)
- The Delaware Association of Conservation Districts
- Miscellaneous workshops held by cooperating agencies

Board members are also provided a copy of the *Delaware Supervisors' Handbook* from the Delaware Association of Conservation Districts.

<sup>&</sup>lt;sup>65</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 24

<sup>&</sup>lt;sup>66</sup> Kent Conservation District JSC Initial Questionnaire, pg. 19-20

<sup>&</sup>lt;sup>67</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 14

<sup>&</sup>lt;sup>68</sup> New Castle Conservation District JSC Revised Section 4, pg. 6

<sup>&</sup>lt;sup>69</sup> Kent Conservation District JSC Initial Questionnaire, pg. 20

<sup>&</sup>lt;sup>70</sup> Sussex Conservation District, edits Draft Report, pg. 32

<sup>&</sup>lt;sup>71</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 14

**Board of Supervisors - New Castle Conservation District**72

NAME/ADDRESS	POSITION	OCCUPATION	ORIGINAL ELECTION/ APPOINTMENT DATE	TIME REMAINING IN CURRENT TERM
Josef A. Burger Townsend,	Chair Farm Member	Retired Farmer	7/1/1972 (Elected)	1 year 12/31/2008
Anthony Schiavi New Castle County Dept. of Special Services; Environmental Operations Division	Member County Executive's Designee	Assistant County Engineer	1/1/2005 (Appointed)	Serves as County Executive's Designee
Robert Baker Odessa	Vice Chair Farm Member	Farmer	1/1/2000 (Elected)	4 years 12/31/2011
Anna Stoops University of DE	Board Secretary	County Agricultural Agent	12/1/2007 (Appointed)	n/a
Dariel C. Rakestraw Hockessin	Treasurer Non-Farm Member	Retired	1/1/1978 (Elected)	2 years 12/31/2009
<b>David Woodward</b> Middletown	Appointed Member	Retired	1/1/1995 (Appointed)	2 years 12/31/2009
Kathy Klein Wilmington	Appointed Member	Environmental Consultant	2/1/2008 (Appointed)	12/31/2010

**Board of Supervisors - Kent Conservation District**73

NAME/ADDRESS	POSITION	OCCUPATION	ORIGINAL ELECTION/ APPOINTMENT DATE	TIME REMAINING IN CURRENT TERM
Robert Killen Felton	Chairman Farm Member	Farmer	November 1994 (Elected)	1 yr. 4 mos.
Edwin Alexander Camden-Wyoming	Vice-Chairman Farm Member	Poultry Farmer & Maintenance Staff	January 1987 (Elected)	3 yrs. 4 mos.
Gordon Johnson Dover	Secretary	County Agricultural Agent	May 1996	n/a
Fred Mott Dover	Treasurer Appointed Member	Retired, USDA	August 1989 (Appointed)	3 yrs.
Alfred Moor III Smyrna	Farm Member	Farmer	October 1991 (Elected)	2 yrs. 4 mos.
Bruce Snow Smyrna	Farm Member	Farmer	January 2004 (Elected)	4 mos.
Terry Pepper Camden-Wyoming	Appointed Member	Governor's Local Government Liaison	January 1995 (Appointed)	1 yr.
Eric Buckson Camden-Wyoming	Levy Court Representative	Teacher	January 2007	n/a
Bruce Carlson Dover	Associate Member	Crop Consultant	October 1987	1 yr.
Barbara Reed Dover	Associate Member	Retired Teacher	December 1999	2 yrs 4 mos.

 $<sup>^{72}</sup>$  New Castle Conservation JSC Additional Questionnaire, pg. 1  $^{73}$  Kent Conservation District JSC Initial Questionnaire, pgs. 18-19

Board of Supervisors - Sussex Conservation District74

NAME/ADDRESS	POSITION	OCCUPATION	ORIGINAL ELECTION/ APPOINTMENT DATE	TIME REMAINING IN CURRENT TERM
William Vanderwende	Chairman	Farmer	January 1, 1978	2 years
Bridgeville	Farm Member		(Elected)	
Fred West	Vice Chairman	Farmer	January 1, 2000	4 years
Frankford	Farm Member		(Elected)	
Donald Collins, Jr.	Treasurer	Farmer/Developer	January 1, 2001	1 year
Millsboro	Farm Member		(Elected)	
Dale Ockels	Member	Farmer	January 1, 2007	3 years
Milton	Farm Member		(Elected)	
William McGowan	Secretary	County	April 30, 1991	n/a
Georgetown		Agricultural Agent		
Ronald Breeding		Special Assistant		
Seaford	Appointed Member	Nemours Health &	July 1, 1999	2.5 years
		Prevention	(Appointed)	
		Services.		
Dean Belt	Appointed Member	Retired, Coop. Ext.	November 22, 1991	2.5 years
Lewes			(Appointed)	
Finley Jones	County Council	Self-Employed	January 1, 1997	n/a
Greenwood	Representative			

## **Programs**

#### **Urban Water Management Program**

This is part of the Water Management cost-share category. Urban water management is a large part of NCCD's program, and to a lesser degree part of KCD's operations. At this time it plays a minor role at SCD.<sup>75</sup>

#### **NCCD**

DSWC assists the NCCD with urban water management by occasionally assisting to facilitate coordination with the EPA or the Army Corps of Engineers. Additionally, DSWC provides one full-time State employee, and an Engineering Technician IV to perform drainage investigations and construction surveys for water management projects. <sup>76</sup>

Additional information about the New Castle Conservation District projects:<sup>77</sup>

One of the larger projects worked on is the Little Mill Creek flooding problem in which the NCCD, in cooperation with DNREC, New Castle County, the Town of Elsmere and a special committee created by State law, applied to the US Army Corps of Engineers for assistance under their Small Watershed Program. The special committee, "Little Mill Flood Abatement Committee" was formed in 1990 and helped steer the effort to construct a floodway through Elsmere to alleviate the severe flooding that has been historically devastating to residents.

<sup>&</sup>lt;sup>74</sup> Sussex Conservation District JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>75</sup> Division JSC Additional Questionnaire, pgs. 2 - 3

<sup>&</sup>lt;sup>76</sup> Division JSC Additional Questionnaire, pgs. 2 - 3

<sup>&</sup>lt;sup>77</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 7-8

Another effort lead by the NCCD was the Shellpot Creek Flood Abatement Study which was carried out in cooperation with the Shellpot Flood Abatement Committee which was created by State Law. This Study was carried out with extensive public involvement and dealt with the entire Shellpot watershed.

The Shellpot Creek Flood Abatement Study area included the entire area draining surface water runoff to Shellpot Creek and its tributaries. The Shellpot Creek Watershed is composed of three principal subwatersheds:1) Shellpot Creek, 2) Matson Run and 3) Turkey Run.

Another effort lead by the NCCD was the Naaman's Creek Flood Abatement Study. A committee was created by legislature to oversee and direct the investigations and evaluations of flooding in the Naaman's Creek Watershed. A final report was prepared in December 1999 and NCCD is still implementing recommended projects as funding is provided.

Other studies dealing with Urban Water Management include Mill Creek, Perkins Run and Back Creek watersheds.

#### KCD/SCD

DSWC assists KCD and SCD with urban water management by occasionally assisting to facilitate coordination with the EPA or the Army Corps of Engineers. <sup>78</sup>/<sup>79</sup>

#### **Conservation Cost-Share**

The DSWC distributes conservation cost-share funding to each of the conservation districts in Delaware on an annual basis. These funds originate annually from the Bond Bill. A portion of these funds are considered general cost-share funds and may be used for any conservation practices which support the purposes of 7 *Del. C.* Chapter 39. The remaining conservation cost-share funds are to be used for nutrient management. The table below summarizes FY07 cost-share appropriations.

Conservation Cost-Share				
	NCCD	KCD	SCD	Total
Nutrient	\$170,000	\$365,000	\$745,000	\$1,280,000
Management				
General Cost-	\$500,000	\$500,000	\$500,000	\$1,500,000
Share				
Failed Ag				\$150,000
Waste				
Systems*				
Special				\$275,000
Initiatives *				
TOTAL	\$670,000	\$865,000	\$1,245,000	\$3,205,000

<sup>\*</sup>Cost-share funding for failed agricultural waste systems and special initiatives (as determined by DNREC) are held by the DSWC until specific projects have been identified.

When cost-share funding is issued to each conservation district, the Board for each district approves a cost-share budget and authorizes appropriations for a number of cost-share

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<sup>&</sup>lt;sup>78</sup> Division JSC Additional Questionnaire, pgs. 2 - 3

<sup>&</sup>lt;sup>79</sup> Division JSC Additional Questionnaire, pgs. 2 - 3

categories. Examples of cost-share categories are agricultural and animal waste systems, water management practices, covercrop, and erosion and sediment control practices. These cost-share budgets are then sent to DSWC for final approval by the DSWC Director.<sup>80</sup>

#### **NCCD**

The NCCD participates with landowners to address specific conservation problems. The NCCD completes projects for long term benefit for the resource being protected. The landowner handles the contract administration with their selected contractor. <sup>81</sup>

#### KCD/SCD

The KCD assists landowners with the installation and/or completion of conservation practices. <sup>82</sup> In Sussex County, applicants are ranked by conservation planners, as more requests are received than money is available. <sup>83</sup>

#### Agricultural Nonpoint Source Pollution State Revolving Loan Fund (AgNPS Fund)

The AgNPS Fund provides a source of low-interest loans to landowners seeking funds to install conservation practices that will reduce nonpoint source pollution. Currently there is up to \$400,000 committed to this fund annually. If cost-share is being used for these practices, AgNPS funds can be used for the remaining balance not covered by cost-share dollars. Thus, the conservation districts usually identify the need for AgNPS funding to help a landowner install a practice. The conservation districts then determine the eligibility of the applicant to participate in the program. The district assists the landowner with completing the application. The application is then sent to the poultry integrator or dairy cooperative for approval. Following this step, the application is sent to the DSWC for final approval. Upon approving the practice, the DSWC sends an approval letter to the landowner and the conservation district.

After the practice has been installed, the landowner provides invoice(s) to the conservation district. The district then inspects the completed project, and upon approval, forwards the invoice(s) to the DSWC. The DSWC then records all information, approves the payment for the practice, and sends the paperwork to the Financial Assistance Branch of the Division of Water Resources for processing and payment.<sup>84</sup>

#### **NCCD**

Qualified New Castle Conservation District farm cooperators are eligible to participate in the AgNPS Fund program. There are no NCCD farm cooperators currently participating in this program. <sup>85</sup>

#### KCD/SCD

The KCD and SCD's involvement with this program is limited to assisting cooperating landowners in ensuring that they qualify for the program, and assisting them through the application process. The districts receive an administrative fee from DNREC's Division of Water Resources for their services.<sup>86</sup>

<sup>&</sup>lt;sup>80</sup> Division JSC Additional Questionnaire, pg. 2

<sup>81</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 8

<sup>82</sup> Kent Conservation District JSC Initial Questionnaire, pgs. 7 - 8

<sup>83</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 6

<sup>&</sup>lt;sup>84</sup> Division JSC Additional Questionnaire, pgs. 6-7

<sup>85</sup> New Castle Conservation District, edits Draft Report pg. 38

<sup>&</sup>lt;sup>86</sup> Kent Conservation District, edits Draft Report, pg. 37

#### **Conservation Reserve Enhancement Program (CREP)**

This program is a partnership between DNREC and FSA (Farm Services Agency) designed to retire marginal tilled land from agriculture and devote it to one of five conservation practices for a period of 15 years. Approximately 80% of the funding for practices and land rental rates is provided by FSA with the balance provided by the State. DSWC employs a CREP Coordinator who is paid through an EPA grant. This employee is a KCD Contractual employee, meaning that DSWC contracts with KCD for employment services but DSWC provides supervision for the position. The CREP Coordinator works statewide making landowner contacts, writing contracts, and overseeing planting and project monitoring. The CREP Coordinator also processes landowner payment documentation to DSWC and FSA. Each conservation district assists the CREP Coordinator by making additional landowner contacts and assisting with processing contracts.

To date, over 6,000 acres have been enrolled in the Delaware CREP, with over \$8 million of Federal and State monies expended.<sup>87</sup>

#### NCCD/KCD/SCD

The Conservation District's involvement with this program is limited to the utilization of it as a tool for the District Planners to use when assisting cooperating landowners in the development of a conservation plan for their property. 88 89

#### **Debris Pit Program**

This program remediates buried wood debris on residential lots that are the result of land clearing and developing projects in the 1970s and 1980s. Buried wood debris is mechanically removed, clean fill is replaced, and yards are restored. It is important to remediate these pits to mitigate the hazards posed by open sinkholes and methane production and congregation usually associated with these pits. <sup>90</sup> The Debris Pit Program is operated by the DSWC.

#### **NCCD**

DSWC employs three full-time NCCD contractual employees who work out of the NCCD office building in Glasgow. Funding for this program is appropriated annually through the State Bond Bill. New Castle County also contributes \$250,000 annually to the program. Employees of the program respond to constituent requests to investigate sinkholes and other evidence of buried wood debris. If a debris pit is discovered, the homeowner has three options for remediation. First, they can go on a waiting list to have the state fix the problem free of charge. Second, they can fix the problem themselves and, provided the work meets program standards and has been inspected by NCCD staff, may be eligible for reimbursement of up to \$10,000. Finally, the owner can have the problem fixed immediately if he/she is willing to provide 25% of the cost of remediation. The balance of this cost-share (75%) originates from State funding and is issued by NCCD.

<sup>&</sup>lt;sup>87</sup> Division JSC Initial Questionnaire, pg. 62

<sup>&</sup>lt;sup>88</sup> New Castle Conservation District Additional Questionnaire, pg. 6

<sup>&</sup>lt;sup>89</sup> Kent Conservation District JSC Initial Questionnaire, pg. 8

<sup>&</sup>lt;sup>90</sup> Division JSC Initial Questionnaire, pgs. 62-63

<sup>&</sup>lt;sup>91</sup> Division of Soil and Water Conservation, edits Draft Report, pg. 39

#### KCD/SCD

The majority of the debris pits discovered to date are in New Castle County, as such KCD and SCD currently do not offer a cost-share program for this practice. However, as debris pits in the lower two counties mature and sinkholes start to develop, it is anticipated that these two conservation districts will get involved with this program. <sup>92</sup> In the meantime, the State Program is offered state-wide.

#### **Drainage Program**

The drainage program in Delaware is effective due to a strong partnership between the DSWC and the conservation districts. Each conservation district's interaction with the DSWC is different, but inextricably linked. The DSWC hosts a drainage help line that is designed to receive all drainage complaints or concerns from the public.

The DSWC creates an "assistance list" and puts projects on the 21<sup>st</sup> Century Fund list to await funding. The DSWC then receives and allocates 21<sup>st</sup> Century funding for a variety of drainage projects. In New Castle County, 21<sup>st</sup> Century funds are allocated in one lump sum via a purchase order to the conservation district. The district then invoices DSWC for payment on a job by job basis. In Kent and Sussex counties, 21<sup>st</sup> Century funds are allocated on a job by job basis. Matching funds, including Community Transportation funds, are managed by the conservation districts. However, in Kent and Sussex counties, the DSWC solicits Community Transportation funds for the conservation districts.

Like the Tax Ditch program, the DSWC provides engineering assistance to the conservation districts. 93

#### **NCCD**

In New Castle County, the DSWC provides one full-time State employee, an Engineering Technician IV, to perform drainage investigations and construction surveys. The NCCD plays a role in project administration for New Castle County and municipal capital improvements related to drainage and water management.

The NCCD performs a large amount of contract administration for both engineering and construction of projects.

#### **KCD**

The KCD receives funding from Kent County Levy Court each year to be the lead agency in performing the initial drainage investigation following notification of a drainage complaint in Kent County. From the initial investigation, KCD determines whether the complaint needs to be addressed by a program within KCD, DSWC, DelDOT, or DDA. Many of the drainage complaints involve a new subdivision and are handled by KCD's stormwater program since KCD oversaw the stormwater management in these subdivisions as they were built. Otherwise, KCD determines the jurisdiction of the problem and coordinates concerns involving multiple agencies and interacts w/ DSWC staff in Dover.<sup>94</sup>

<sup>92</sup> Division JSC Additional Questionnaire, pgs. 3 - 4

<sup>93</sup> Division JSC Initial Questionnaire, pgs. 5-6

<sup>&</sup>lt;sup>94</sup> Kent Conservation District, edits Draft Report, pg. 39

#### **SCD**

The DSWC performs the initial drainage investigation following notification of a drainage complaint in Sussex county. However, if the drainage complaint involves a new subdivision SCD performs the initial investigation. This stands to reason since SCD districts oversaw the stormwater management in these subdivisions as they were built. SCD determines the jurisdiction of the problem and coordinates concerns involving multiple agencies and interacts w/DSWC staff in Georgetown.

#### KCD/SCD

KCD and SCD provide financial and technical assistance to landowners. Financial management is through conservation or State and County Matching fund cost share, tax ditch and legislative funding programs. The SCD also works with the DSWC for planning, engineering and design. The Districts act as the contractor, performing the work 95/96

#### **Environment Quality Incentives Program (EQIP)**

This is a federal cost-share program managed by the USDA-Natural Resources Conservation Service (NRCS). The DSWC District Operations Administrator is a member of NRCS' State Technical Committee. This group sets policy for how the EQIP Program will operate in Delaware. Other than that, DSWC has little to do with EQIP.<sup>97</sup>

#### **NCCD**

NRCS can and does manage the EQIP workload in New Castle County.<sup>98</sup> This program is available to farm operators for implementation of conservation practices that address soil and water quality, forestry and wildlife habitat improvements.<sup>99</sup>

#### KCD/SCD

The conservation district conservation planners in Kent and Sussex counties, in concert with NRCS staff, are largely responsible for the delivery of this program in their respective counties. In fact, NRCS staff could not manage this workload without the conservation district planners. <sup>100</sup>

#### **Equipment Program**

Each of the conservation districts has an equipment program, although NCCD's program consists primarily of its dredge. The other two conservation districts have equipment programs geared more toward excavating, grading, pipe installation, and trucking. These programs perform functions like ditch dipout, spoil spreading, wetland construction. The conservation districts are largely on their own in regards to their equipment programs. However, the coordination between the DSWC's drainage and tax ditch staff and the conservation districts can lead to work on the part of the equipment programs. <sup>101</sup>

<sup>95</sup> Division JSC Initial Questionnaire, pg. 64

<sup>&</sup>lt;sup>96</sup> Kent Conservation District JSC Initial Questionnaire, pg. 8

<sup>&</sup>lt;sup>97</sup> Division JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>98</sup> Division JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>99</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 63

<sup>&</sup>lt;sup>100</sup> Division JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>101</sup> Division JSC Additional Questionnaire, pg. 6

#### **NCCD**

The New Castle Conservation District's equipment program includes a cooperative agreement with New Castle County per the NCC-NCCD July 26, 1984 MOU. Due to the growth and urbanization of the County, joint resources, equipment, technical assistance, personnel and materials, funding and administration are needed to implement sound conservation programs and projects. <sup>102</sup> Also, the DSWC provides \$225,000 annually to support their dredge operations. <sup>103</sup>

#### **KCD**

Assists cooperating landowners of Kent County in implementing conservation practices with heavy equipment purchased through the Revolving Equipment Loan Fund and maintained by KCD. <sup>104</sup> KCD charges fees to landowners for the construction/installation of the conservation practices. <sup>105</sup>

#### **SCD**

The program provides a service to the citizens of Sussex County by maintaining tax, public and private ditches, clearing land for agricultural purposes, stabilizing streambanks and through construction of wetlands and wildlife ponds, and replacing and repairing pipes. <sup>106</sup>

#### **Equipment Revolving Loan Fund**

The State Equipment Revolving Fund Program is administered by DNREC and has been in effect for over 20 years to assist the districts with initial funding to acquire equipment for the advancement of a conservation program to assure natural resource protection. The objective of the program is to get the appropriate equipment available and have the funds provided by the State. Loans are repaid into the revolving fund, which are loaned again to purchase equipment when the initial purchased equipment is worn out or obsolete. <sup>107</sup>

The Legislature has set aside \$1,900,000 in a revolving loan fund specifically to be used by the conservation districts to purchase heavy equipment for installing conservation practices. The DSWC holds the funding until a request for a loan is generated by one of the conservation districts. The loan request is then forwarded to the Governor's Soil and Water Advisory Council for approval. Upon approval, the loan is made to the conservation district with a 0% rate of interest. The loan amount is re-payable over a maximum 5 year period. 108

#### NCCD

Several pieces of equipment have been purchased by the NCCD under this program.

- 1. No Till Drills
- 2. Dredge

The NCCD has also entered into agreements with New Castle County regarding the purchase and use of other conservation equipment. <sup>109</sup>

<sup>&</sup>lt;sup>102</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 6

<sup>&</sup>lt;sup>103</sup> Division JSC Additional Questionnaire, pg. 6

<sup>&</sup>lt;sup>104</sup> Kent Conservation District JSC Initial Questionnaire, pgs. 6-7

<sup>&</sup>lt;sup>105</sup> Kent Conservation District, edits Draft Report, pg. 41

<sup>&</sup>lt;sup>106</sup> Sussex Conservation District JSC Initial Questionnaire, pgs. 5-6

<sup>&</sup>lt;sup>107</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 10

<sup>&</sup>lt;sup>108</sup> Division JSC Additional Questionnaire, pg. 6

<sup>&</sup>lt;sup>109</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 10

#### **KCD**

The KCD purchases and maintains heavy equipment with an inventory of 1 excavator, 2 dozers, a backhoe, a tractor and trailer, a dump truck, pick ups, and other miscellaneous equipment. <sup>110</sup>

#### **SCD**

The SCD purchases equipment under the heavy equipment section of this program. On inventory there are 4 excavators, 3 dozers, two tractors and trailers, dump trucks, a shop truck, and pick-ups for the equipment manager and operators to take to the job sites.<sup>111</sup>

#### **Nutrient Management Program**

This program operates from the Delaware Department of Agriculture under the direction of the Delaware Nutrient Management Commission (DNMC). The DSWC Director is a voting member of this commission. The Delaware Nutrient Management Law mandates that "The State will make nutrient management consultants available through the conservation districts to make free nutrient management plans assistance". <sup>112</sup>

#### **NCCD**

New Castle Conservation District fulfills State of Delaware Nutrient Management Act responsibilities through its partnership with the USDA-Natural Resources Conservation Service (NRCS) and Kent Conservation District. The DSWC provides neither General Funds nor federal CWA 319 grant funds to NCCD for nutrient management program staff or activities.

#### KCD/SCD

KCD and SCD are provided additional funding by the DSWC because those two conservation districts have more farms and poultry operations that are regulated under the Delaware Nutrient Management law. KCD and SCD have hired conservation planners who are required to attain nutrient management consultant certification to satisfy the mandate. DNREC and USDA-NRCS provide funding for these positions. For instance, DSWC funded the KCD planners with \$42,800 in general funds and \$70,670 in Clean Water Act (CWA) Section 319 grant funds, while USDA-NRS provided the same amount. DSWC also provided \$137,200 in general funds and \$206,331 in CWA Section 319 funds for SCD planners during the same time frame. These conservation planners report accomplishments to both the DSWC and the DNMC. 113

#### **Sediment and Stormwater Program**

The Sediment and Stormwater program was established in 1990 and Regulations were promulgated in 1991. In the law<sup>114</sup> there were criteria established for delegation of each of the program elements to be delegated to local agencies and governments. The program delegation priority was given to the conservation districts and since 1991, all three conservation districts have been involved in administering the Sediment and Stormwater Law and Regulations as a delegated agency of the DSWC.<sup>115</sup>

<sup>&</sup>lt;sup>110</sup> Kent Conservation District, edits Draft Report, pg. 41

<sup>&</sup>lt;sup>111</sup> Sussex Conservation District email January 23, 2008

<sup>&</sup>lt;sup>112</sup> Division JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>113</sup> Division JSC Additional Questionnaire, pg. 4

<sup>&</sup>lt;sup>114</sup> 7 *Del. C.* Chapter 40

<sup>&</sup>lt;sup>115</sup> Division JSC Initial Questionnaire, pgs. 63-64

#### **NCCD**

NCCD is involved with the State of Delaware Sediment and Stormwater Program through assistance provided to ten of the thirteen municipalities in New Castle County.

DNREC has delegated New Castle County responsibility for the Program for the unincorporated area of New Castle County. There are thirteen incorporated areas in the County and the Cities of Wilmington and Newark and the Town of Middletown. Each have been delegated responsibility for the Program in their municipal limits.

NCCD requested delegation of responsibility for the ten remaining municipalities which include New Castle City, Delaware City, Newport, Elsmere, Arden, Ardencroft, Ardentown, Townsend, Odessa and Bellefonte. These municipalities do not have adequate staff to carry out the Program and they would have to employ a private engineering firm at their expense to comply with the State mandate. NCCD assists these municipalities with this responsibility.

The program consists of evaluating plans submitted by owners desiring to disturb an area greater than 5000 square feet and evaluating the plans to assure adequate sediment and stormwater controls are planned to comply with Chapter 40 of the Delaware Code.

The NCCD then provides inspection services at the sites during construction to assure compliance with the approved plans. 116

#### KCD/SCD

The Kent and Sussex Conservation Districts operate a much larger program for DNREC in their respective jurisdictions as they administer the Sediment and Stormwater Program for their entire county regions including municipalities. Their programs are also very dependent on fee revenue generated for the thousands of projects administered each year.

#### **SCD**

The Sussex Conservation District has been contacted by conservation districts in three other states (New Jersey, New York and Connecticut) with regard to the operation of its Sediment and Stormwater Program.<sup>118</sup>

#### **Tax Ditch Program**

A tax ditch is defined as a governmental subdivision of the State.<sup>119</sup> It is a watershed-based organization formed by a prescribed legal process in Superior Court. Tax Ditches are managed by a tax ditch organization as established by Superior Court. The members of this organization are the landowners affected by the tax ditch, and those members elect officers for the organization. The Delaware General Assembly enacted the 1951 Drainage Law to establish, finance, and maintain drainage organizations (tax ditches). Formation of a tax ditch can only be initiated by landowners who petition Superior Court to resolve drainage or flooding concerns.

<sup>&</sup>lt;sup>116</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 9 - 10

<sup>&</sup>lt;sup>117</sup> Division JSC Initial Questionnaire, pgs. 63-64

<sup>&</sup>lt;sup>118</sup> Sussex Conservation District, edits Draft Report, pg. 42

<sup>&</sup>lt;sup>119</sup> 7 *Del. C.* Chapter 41

Delaware has 228 individual tax ditch organizations. They range in size from 56,000 acres as in Marshyhope Creek Tax Ditch in southern Delaware, to a two-acre system in Wilmington. These organizations manage over 2,000 miles of channels and provide benefits to over 100,000 people and almost one-half of the state-maintained roads. Tax ditch channels range in size from 6 to 80 feet wide and 2 to 14 feet deep. The dimensions depend on the acreage being drained and the topography. <sup>120</sup>

Currently, there is a legislative Right-of Way Tax Ditch Task Force to develop and submit appropriate procedures for the determination of maximum rights-of-way of tax ditch systems throughout the State of Delaware.

Both the DSWC Drainage and Stormwater Section and the conservation districts are very involved with tax ditch issues. KCD and NCCD operate very similarly, while SCD operates under a slightly different model.

#### KCD/NCCD

Both DSWC and the conservation districts offer technical assistance to landowners and tax ditch organizations. The DSWC frequently makes recommendations to the conservation district boards for their consideration regarding tax ditch issues. Additionally, the DSWC receives and approves requests for court ordered changes. These can occur for a number of reasons including changes in rights-of-way. Finally, the DSWC receives Section 3921 funds<sup>121</sup> from the Legislature and subsequently disperses them to the conservation districts.

In addition to providing technical assistance, the conservation districts receive requests to change tax warrants and the Boards will either approve or disapprove these changes. The tax warrant is the percent charged to landowners each year to be used by the tax ditch organization for maintaining the ditch. The conservation districts also receive requests from the tax ditch organizations for cost-share of maintenance projects like mowing, herbicide application, dipout, and spoil spreading. In Kent County, the KCD equipment program also performs most of the major maintenance on tax ditches.

#### **NCCD**

There are 26 active tax ditches measuring approximately 55miles in New Castle County, most of which were formed prior to development. Eleven urban/suburban tax ditches function to control their own maintenance. 122

### **KCD**

In Kent County, an annual bond allocation, with an equal match from the Community Service Grant Funding through the Kent County Levy Court, allows KCD to assist 75 tax ditch associations that manage 710 miles of ditches. 123

<sup>120</sup> http://www.swc.dnrec.delaware.gov/TaxDitches.htm

<sup>&</sup>lt;sup>121</sup> 7 Del. C. §3921

<sup>&</sup>lt;sup>122</sup> New Castle Conservation District JSC Initial Questionnaire, pg. 7

<sup>&</sup>lt;sup>123</sup> Kent Conservation District JSC Initial Questionnaire, pg. 7

#### **SCD**

In Sussex County, the DSWC provides more assistance directly to the tax ditch managers, including providing assistance with warrant, court order changes, maintenance inspections, and environmental permitting. As in Kent and New Castle Counties, the DSWC also reviews land development projects on behalf of the tax ditch managers. This is to try and prevent right-of way encroachments by new development. Additionally, the DSWC provides construction stakeout services to SCD and other contractors doing major maintenance on dipouts.

The SCD administers the State and County Matching Fund cost-share program (3921) and their equipment program does a substantial amount of major maintenance on Tax Ditches (dipouts). The SCD also has a weed wiper bar that helps with vegetative maintenance on tax ditches.

The SCD assists about 136 tax ditch associations that manage approximately 1,400 miles of tax ditches in Sussex County. The State and Sussex County provide matching funds to help cost-share with the tax ditch organizations for maintenance. 124

## **Education Initiatives and Awareness NCCD**

The New Castle Conservation District provides educational outreach through publications, fairs and festivals, school programs, and cooperative ventures with conservation partners. 125

#### • Delaware Envirothon

The Delaware Envirothon is sponsored by the Delaware Association of Conservation Districts (DACD). It is an Environmental Challenge for teams of high school students in the areas of aquatic ecology, soil/land use, forestry, wildlife, public speaking and special environmental topics. The program is used to instruct high school students and their team advisor in conservation methods to promote the conservation message and potential career choices to students. Currently, a New Castle Conservation District employee chairs the Delaware Envirothon Planning Committee. For more information see: www.delawareenvirothon.org

#### • Newsletters and Annual Report

The District publishes a quarterly newsletter entitled "Conservation News" and an annual report. The most recent issue or archived issues can be viewed by visiting the NCCD's web site at www.newcastleconservationdistrict.org

#### • Educational Programs and Materials

The District has a variety of educational materials that appeal to children from K through adults. There are conservation activity booklets, posters, bookmarks, etc. geared to various conservation topics. The District promotes and provides materials for the yearly observance of Soil and Water Stewardship Week, sponsored for over 50 years by the National Association of Conservation Districts. The theme for 2008 will deal with the importance of water. Other well received materials include the "Backyard Conservation" guidebook. Materials from other conservation agencies and organizations are also obtained for wider distribution such as the "Livable Delaware" plant guides. Educational materials provided free of charge to teachers include:

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<sup>&</sup>lt;sup>124</sup> Sussex Conservation District JSC Initial Questionnaire, pg. 6

<sup>&</sup>lt;sup>125</sup> New Castle Conservation District JSC Initial Questionnaire, pgs. 10-13

#### • Non-Point Source Pollution Model

A program can be scheduled to present the Non-Point Source Pollution model where children can learn about watersheds, where water goes, and how what we do to the land affects our water quality. The program usually lasts around 20-30 minutes. The model is used each year at the annual "Hands Across the Brandywine" program sponsored by the Friends of Wilmington Parks and is requested by schools, scouts, 4-H clubs and other groups. It is also used at the annual "Make A Splash" Watershed Festival sponsored by DNREC.

#### • BIE Alliance "What in the World" Career Awareness Program

The District is a regular participant in the Business/Industry/Education Alliance program where students have the opportunity to visit 4 different presenters for 10 minutes to learn about careers involving math, science and technology. The program is run out of the University of Delaware's School to Work program. The District presentation provides each child with an overview of the importance of soil conservation, conservation projects, surveying, use of maps, etc.

#### Public Events

The District exhibits at many public events around New Castle County and in Dover at special functions. Some of these include Astra-Zeneca Earth Day, AG Day at the University of Delaware, Tree Spree Fair, public forums and meetings, and other special events.

#### • Cooperative Conservation Efforts

The District's information and education coordinator serves on the education committees/public awareness committees of the White Clay Creek Wild and Scenic River Management Committee, the Delaware Community Forestry Council, and the Trees for Wilmington program through the Delaware Center for Horticulture.

The Conservation District's federal partners at the USDA-Natural Resources Conservation Service participate in many agricultural oriented field workshops such as pasture walks, conservation best management practices and field days. These are geared to the farm community and are usually organized by the University of Delaware Cooperative Extension.

#### • Conservation Tours

Conservation tours are made available to groups and elected public officials to learn about conservation projects and programs affecting their areas of interest or district. These are offered on an as needed and requested basis.

#### • Awards and Recognition

The District recognizes an outstanding Cooperator with the annual Cooperator of the Year award. Nominees are provided to DNREC and the Governor's office for the annual Governor's Conservation Awards. Awards are given out to deserving recipients in the area of Agricultural Conservation and Urban Conservation.

#### **KCD**

Kent Conservation District staff serves on the planning committees and provides volunteers for the following programs: 126

- Delaware Envirothon
- Make-a-Splash Water Festival
- Science, Math and Technology Alliance's 'What in the World' career awareness programs throughout the school year. The programs are designed to educate elementary and middle school students about the use of science, math and technology in various careers. The KCD's focus is on the use of these skills in conservation efforts.
- **In-class presentations** on topics such as soils, water quality, conservation efforts, etc.
- **Sponsors a conservation-themed poster contest** for all school-aged students.
- State Fair Display planning committee and staffs the state fair display.
- Stormwater maintenance workshops

#### **SCD**

The SCD has several Education Initiative and Awareness programs. 127

- **Delaware Envirothon**: The SCD staff assist on the planning committee, as well as volunteer at the state competition every year.
- Education Display: The District also takes an educational display to various events throughout the year. Some of the events that the SCD attended were Autumn at Abbott's Mill, Earth Day Eco Walk, State Fair, River Fest, Coast Day, as well as others.
- Soil and Water Stewardship Program: The SCD also participates in the Soil and Water Stewardship program sponsored by NACD and local conservation districts.
- **Educational materials** are distributed to local churches, libraries, and schools to promote this important program.
- Newsletter The SCD publishes a quarterly newsletter (Crossroads), and distributes it to a mailing list of 3,000.
- **Stormwater Maintenance Workshops** Presentations and workshops are given several times a year to homeowners associations and civic organizations throughout the county.

### **Fiscal**

#### **NCCD**

The New Castle Conservation District determines needs and priorities based on services and assistance provided in prior years, including anticipated needs. Projects are based on customer requests and priority is based on funding availability. 128

Revenue by Fiscal Year

	Source(s) of Funds	Amount
FY 08 (budgeted)	Federal Funds	\$ 1,381,369
	State Funds	4,883,676
	County Funds	225,000
	Private Funds	460,456

<sup>&</sup>lt;sup>126</sup> Kent Conservation District JSC Initial Questionnaire, pg. 9

<sup>&</sup>lt;sup>127</sup> Sussex Conservation District JSC Initial Questionnaire, pgs. 7-8

<sup>&</sup>lt;sup>128</sup> New Castle Conservation District JSC Revised Section 6, pg. 1

	Office Rental Income		110,000
			110,000
	Equipment Rental Income		45,000
	No Till Income		6,000
	Storm Water Review Fees		2,500
		TOTAL	\$7,114,001
FY 07	Federal Funds		\$ 1,173
	State Funds		11,263,095
	County Funds		1,123,643
	Private Funds		117,181
	Office Rental Income		105,276
	Equipment Rental Income		45,000
	No Till Income		5,301
	Storm Water Review Fees		7,140
		TOTAL	\$12,667,809
FY 06	Federal Funds		\$ 138,727
	State Funds		7,750,803
	County Funds		1,900,899
	Private Funds		10,551
	Office Rental Income		91,039
	Equipment Rental Income		45,000
	No Till Income		7,565
	Storm Water Review Fees		1,250
		TOTAL	\$9,945,834

### Total Expenditures by Fiscal Year<sup>129</sup>

NCCD – Expenditures by Fiscal Year (detail provided as requested by JSC on 2/27/08)

Fiscal Year	Source(s)	Amount \$\$
FY 08(budgeted)	Salaries & Wages	1,400,000
, ,	Payroll Taxes	112,000
	General & Admin	13,000
	Construction Payments	4,258,770
	Depreciation	165,000
	Employee Benefits	205,000
	Pension	92,000
	Equipment Rentals	10,100
	Transportation	1,251
	Insurance	115,000
	Interest Expense	24,000
	Office Supplies & Postage	17,000
	Meetings, Travel	21,000
	Training/Tuition Employees	8,000
	Supervisors	10,000
	Utilities	45,000
	Repairs & Maint. Bldg	50,000
	Repairs & Maint. Vehicles	6,000
	Misc Expenses	39,000
	Office Equipment	4,000
		TOTAL:\$6,596,121

<sup>&</sup>lt;sup>129</sup> New Castle Conservation District JSC Additional Questionnaire, pg. 8

Fiscal Year	Source(s)	Amount \$\$
FY 07(actual)	Salaries & Wages	1,390,913.51
1107(400441)	Payroll Taxes	111,605.74
	General & Admin	13,342.88
	Construction Payments	9,592,440.46
	Depreciation	164,861.16
	Employee Benefits	202,564.78
	Pension	91,648.16
	Equipment Rentals	10,079.66
	Transportation	1,586.67
	Insurance	115,255.70
	Interest Expense	27,251.26
	Office Supplies & Postage	17,709.27
	Meetings, Travel	23,266.27
	Training/Tuition Employees	8,484.75
	Supervisors	9,600.00
	Utilities	37,405.67
	Repairs & Maint. Bldg	59,990.83
	Repairs & Maint. Vehicles	14,010.06
	Misc Expenses	31,165.32
	Office Equipment	4,213.85
		TOTAL: \$11,927,396.00
Fiscal Year	Source(s)	Amount \$\$
EV 06(41)	C-1	1 501 720 40
FY 06(actual)	Salaries & Wages	1,501,739.40
	Payroll Taxes General & Admin	112,963.80
		18,035.21
	Construction Payments	8,396,536.29
	Depreciation Employee Panefits	166,217.76 212,437.53
	Employee Benefits	
		85 080 17
	Pension  Equipment Pentals	85,089.17 11,601.25
	Equipment Rentals	11,601.25
	Equipment Rentals Transportation	11,601.25 1,285.39
	Equipment Rentals Transportation Insurance	11,601.25 1,285.39 119,718.22
	Equipment Rentals Transportation Insurance Interest Expense	11,601.25 1,285.39 119,718.22 23,938.88
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees Supervisors	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64 8,900
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees Supervisors Utilities	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64 8,900 39,476.57
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees Supervisors Utilities Repairs & Maint. Bldg	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64 8,900 39,476.57 61,085.01
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees Supervisors Utilities Repairs & Maint. Bldg Repairs & Maint. Vehicles	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64 8,900 39,476.57 61,085.01 12,397.18
	Equipment Rentals Transportation Insurance Interest Expense Office Supplies & Postage Meetings, Travel Training/Tuition Employees Supervisors Utilities Repairs & Maint. Bldg	11,601.25 1,285.39 119,718.22 23,938.88 27,915.53 20,985.63 2,166.64 8,900 39,476.57 61,085.01

FY'07 Fees collected by the New Castle Conservation District<sup>130</sup>

Description of Fee	Current Fee \$	Number of Persons/Entities Paying Fee	Fee Revenue	Where the Fee Revenue is Deposited
E & S Fees	\$80.00/acre with a \$250 Minimum	6	\$ 7,200	E & S Fund
Tech Assistance for retrieving archival aerial photos for consultants	\$50.00 per visit	75	3,750	General Fund

When asked whether there were any external factors that have impacted NCCD's revenue and expenditures, NCCD responded, "In Fiscal Years 2006, 2007 and proposed for 2008, the New Castle County Storm Water Pond Restoration (New Castle County Program) has provided additional County funding to the district to aid the County in carrying out their restoration program. In fiscal years 2007 and 2008, the NCCD applied for FEMA Grant Programs to aid in funding flood mitigation practices." <sup>131</sup>

#### **KCD**

The Kent Conservation District determines budgetary needs and priorities by comparing program goals to funding proposed. The District receives funding for several programs including; cost-share, tax ditches and urban drainage. The budgeting of the funding is prioritized based on size of practice or problem, location of practice or problem and environmental impact of practice or problem.<sup>132</sup>

#### Revenue by Fiscal Year

	Source(s) of Funds	Amount
FY 08 (budgeted)	Federal	\$ 103,000
r r vo (buageteu)	State	2,800,000
	County	95,000
	Private	100,000
	Pass-Through Grants	0
	Equipment Charges	410,000
	Erosion & Sediment Chgs	670,000
	Interest	150,000
	Gain/Loss on Sale	0
	Other	333,800
		TOTAL: \$4,661,800
FY 07 (actual)	Federal	\$ 100,870
	State	2,748,365
	County	97,696
	Private	105,298
	Pass-Through Grants	Waiting on Audit

<sup>&</sup>lt;sup>130</sup> New Castle Conservation District JSC Additional Questionnaire, pg. 8

<sup>&</sup>lt;sup>131</sup> New Castle Conservation District JSC Additional Questionnaire, pg. 9

 $<sup>^{\</sup>rm 132}$  Kent Conservation District JSC Initial Questionnaire, pg. 22

	Equipment Charges	418,894
	Erosion & Sediment Fees	738,400
	Admin Overhead Chgs	320,823
	Interest	147,641
	Gain/Loss on Sale	2,708
	Other	18,910
	I	TOTAL: \$4,699,605
FY 06 (actual)	Federal	\$ 81,315
, ,	State	2,973,335
	County	87,782
	Private	86,512
	Pass-Through Grants	902,718
	Equipment Charges	574,810
	Erosion & Sediment Fees	578,948
	Admin Overhead Chgs	332,833
	Interest	91,777
	Gain/Loss on Sale	12,362
	Other	18,347
		TOTAL: \$5,740,739

Total Expenditures by Fiscal Year

Fiscal Year	Source(s)	Amount \$\$
FY 08(budgeted)	Salaries & Wages	\$ 2,731,000
11 oo(saagetea)	Payroll Taxes	224,000
	General & Admin	73,700
	Cost-Share Payments	0
	Depreciation	145,000
	Employee Benefits	704,200
	Equip Rentals	5,000
	Fuel Expense	55,500
	Insurance	49,500
	Materials	77,000
	Meeting, Travel & Edu	40,100
	Other	46,500
	Rent	82,030
	Repairs & Maint	38,000
	Section 3921 Match	0
	Subcontracting	240,000
		TOTAL: \$4,511,530
FY 07(actual)	Salaries & Wages	\$ 2,660,156
	Payroll Taxes	217,160
	General & Admin	58,166
	Cost-Share Payments	Waiting on Audit
	Depreciation	140,953
	Employee Benefits	676,259
	Equip Rentals	0
	Fuel Expense	47,087
	Insurance	45,646
	Materials	50,847
	Meeting, Travel & Edu	38,454
	Other	41,680

	Rent	80,067
	Repairs & Maint	25,279
	Section 3921 Matching	Waiting on Audit
	Subcontracting	212,270
	·	TOTAL: \$4,294,024
FY 06(actual)	Salaries & Wages	\$ 2,608,559
, ,	Payroll Taxes	205,921
	General & Admin	274,556
	Cost-Share Payments	1,056,159
	Depreciation	137,156
	Employee Benefits	608,597
	Equip Rentals	20,361
	Fuel Expense	56,698
	Insurance	99,211
	Materials	91,665
	Meeting, Travel& Edu	20,943
	Other	59,209
	Rent	61,451
	Repairs & Maint	35,371
	Section 3921 Matching	162,939
	Subcontracting	295,502
		TOTAL: \$5,794,298

FY 08 Budgeted Expenditures by Line Item

Line Item	Amount of Expenditures
Salaries & Wages	\$ 2,731,000
Payroll Taxes	224,000
Employee Benefits	704,200
General & Admin	73,700
Rent	82,030
Meeting, Travel & Edu	40,100
Depreciation	145,000
Repairs & Maint	38,000
Insurance	49,500
Fuel Expense	55,500
Subcontractor	240,000
Materials	77,000
Equipment Rental	5,000
Tools	5,000
Other	41,500
	TOTAL: \$4,511,530

FY'07 Fees collected by the Kent Conservation District<sup>133</sup>

Description of	Current	Number of	Fee Revenue	Where the Fee Revenue
Fee	Fee	Persons or	<b>\$\$</b>	is Deposited (i.e., general
	<b>\$\$</b>	Entities		fund, special fund)
		Paying Fee		
General Permit	\$ 50.00	563	\$ 28,150	General Funds
Trailer Permit	25.00	45	1,125	General Funds
Comm Permit	500.00	11	5,500	General Funds
Temp Permit	75.00	155	11,625	General Funds
Temp Permit	150.00	166	24,900	General Funds
Review Fees		130	189,000	General Funds
Const Fee		101	447,350	General Funds
Maintenance		37	29,750	General Funds
Fee				
Utility Fee	200.00	5	1,000	General Funds
Lien Fee	30.00	28	840	General Funds
Mortality Fee	25.00	172	4,300	General Funds
Mortality Fee	35.00	1	35	General Funds
Mortality Fee	40.00	1	40	General Funds

When asked whether there have been any external factors that have impacted the KCD's revenue and/or expenditures, KCD responded, "... Construction on the Jackson Tax Ditch positively impacted the revenue of our equipment program. The growth spurt in Kent County has positively impacted the revenue of our Sediment & Stormwater program." <sup>134</sup>

#### **SCD**

SCD determines needs and priorities based on services and assistance provided in prior years, including anticipated needs based on the current economical conditions, existing conservation practices, and the availability of governmental grants. SCD's fiscal year ends December 31.

#### Revenue by Fiscal Year

	Source(s) of Funds	Amount		
FY 07 (budgeted)	Contract Income	\$508,400		
	Equipment Income		907,000	
	Pipe Sales		52,000	
	Stormwater Fees		1,320,000	
	Administrative Overhead Income		512,400	
	Maps and Rent		15,000	
	Miscellaneous		3,000	
		TOTAL	\$3,380,800	
FY 06 (actual)	Contract Income		\$685,862	
	Equipment Income		507,074	
	Pipe Sales		41,065	
	Stormwater Fees		1,257,778	
	Administrative Overhead Income		432,113	
	Maps and Rent		12,785	
	Miscellaneous		0	
		TOTAL	\$2,936,677	

<sup>&</sup>lt;sup>133</sup> Kent Conservation District JSC Initial Questionnaire, pg. 23

<sup>&</sup>lt;sup>134</sup> Kent Conservation District JSC Initial Questionnaire, pg. 25

FY 05 (actual)	Contract Income		387,138
	Equipment Income		563,461
	Pipe Sales		48,255
	Stormwater Fees		1,165,424
	Administrative Overhead Income		430,873
	Maps and Rent		15,743
	Miscellaneous		184
		TOTAL	\$2,611,078

Total Expenditures by Fiscal Year

	Total Expenditures by Fiscal Year				
Fiscal Year	Source(s)	Amount \$\$			
FY 08 (budgeted)	Cost of Sales	223,700			
,	Salaries/Wages	1,492,900			
	OEC	157,500			
	Pension	80,100			
	Supplies	76,100			
	Insurance	49,500			
	Vehicle Exp./Ins.	76,000			
	Repairs – Bldg.	35,300			
	Repairs – Equipment	23,700			
	Depreciation	160,200			
	Utilities/Phones	31,100			
	Travel	22,500			
	Equipment Fuel	65,700			
	Training/Dev.	18,600			
	Rent	35,200			
	Prof. Fees/Dues	52,700			
	Public Relations	35,500			
	Pass through Grants	1,500,000			
	Supervisors	11,000			
		TOTAL \$4,147,300			
FY 07 (actual)	Cost of Sales	199,124			
	Salaries/Wages	1,37,115			
	OEC	138,018			
	Pension	74,841			
	Supplies	66,874			
	Insurance	38,978			
	Vehicle Exp./Ins.	70,231			
	Repairs – Bldg.	26,939			
	Repairs – Equipment	27,276			
	Depreciation	151,801			
	Utilities/Phones	27,338			
	Travel	13,295			
	Equipment Fuel	58,459			
	Training/Dev.	8,739			
	Rent	48,604			
	Prof. Fees/Dues	84,369			
	Public Relations	23,566			
	Pass through Grants	1,948,666			
	Supervisors	12,451			
	1 4	TOTAL \$4,391,684			

FY 06(actual)	Cost of Sales		\$193,896
	Salaries/Wages		1,255,368
	OEC		113,315
	Pension		63,521
	Supplies		59,106
	Insurance		33,178
	Vehicle Exp./Ins.		53,728
	Repairs – Bldg.		14,420
	Repairs – Equipment		24,080
	Depreciation		112,854
	Utilities/Phones		23,433
	Travel		9,765
	Equipment Fuel		41,462
	Training/Dev.		3,284
	Rent		24,619
	Prof. Fees/Dues		71,148
	Public Relations		17,693
	Pass through Grants		1,486,392
	Supervisors		6,981
	· •	TOTAL	\$3,608,243

FY 08Budgeted Expenditures by Line Item

Line Item	Amount of Expenditures	
Cost of Sales	\$ 223,700	
Salaries/Wages	1,492,900	
OEC	157,500	
Pension	80,100	
Supplies	76,100	
Insurance	49,500	
Vehicles Exp./Inc.	76,000	
Repairs – Bldg.	35,300	
Repairs- Equipment	23,700	
Depreciation	160,200	
Utilities/Phones	31,100	
Travel	22,500	
Equipment Fuel	65,700	
Training/Development	18,600	
Rent	35,200	
Prof. Fees/Dues	52,700	
Public Relations	35,500	
Pass Through Grants	1,500,000	
Supervisors	11,000	
	TOTAL \$4,147,300	

SCD has three fees, review fee, construction inspection fee, and maintenance inspection fee for the stormwater management program.

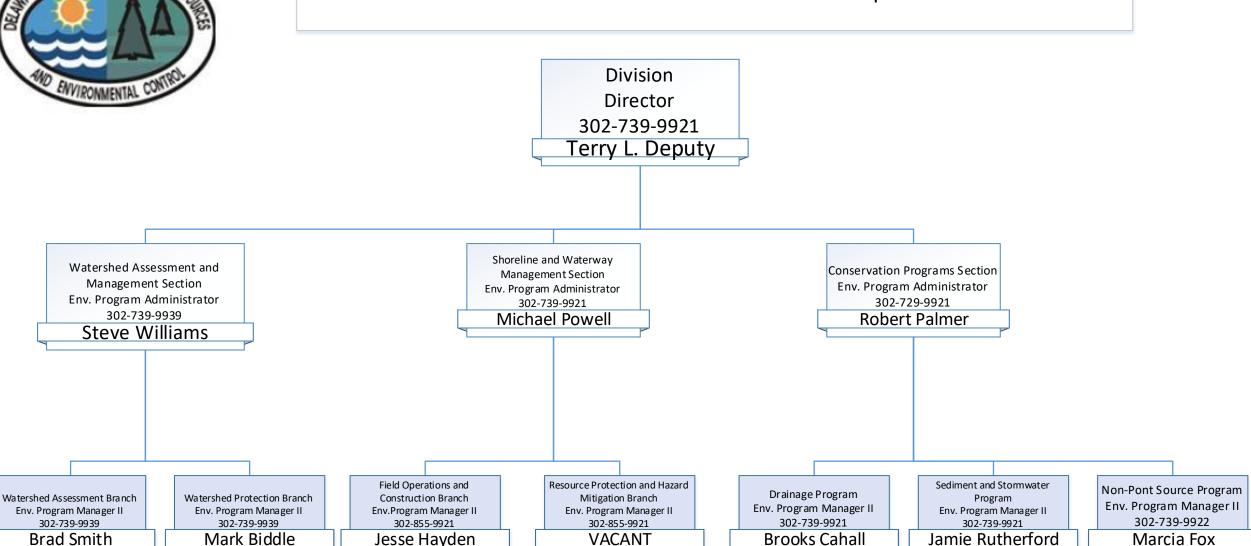
FY 07 Fees collected by the Sussex Conservation District: 135

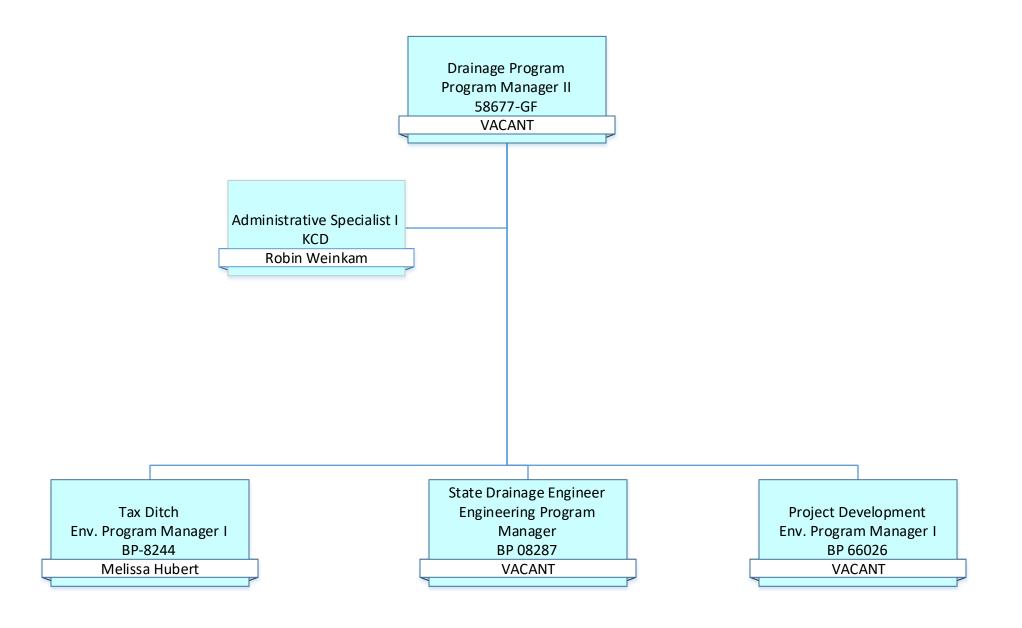
Description of Fee	Current Fee \$\$	Number of Persons or Entities Paying Fee	Fee Revenue \$\$	Where the Fee Revenue is Deposited (i.e., general fund, special fund)
Review Fees	\$364,380	252	\$ 268,576	General Fund
Construction Inspection	719,537	138	530,464	Special Fund
Maintenance Inspection	109,653	98	80,960	Special Fund

<sup>&</sup>lt;sup>135</sup> Email – dated Jan. 9, 2008



## Division of Watershed Stewardship



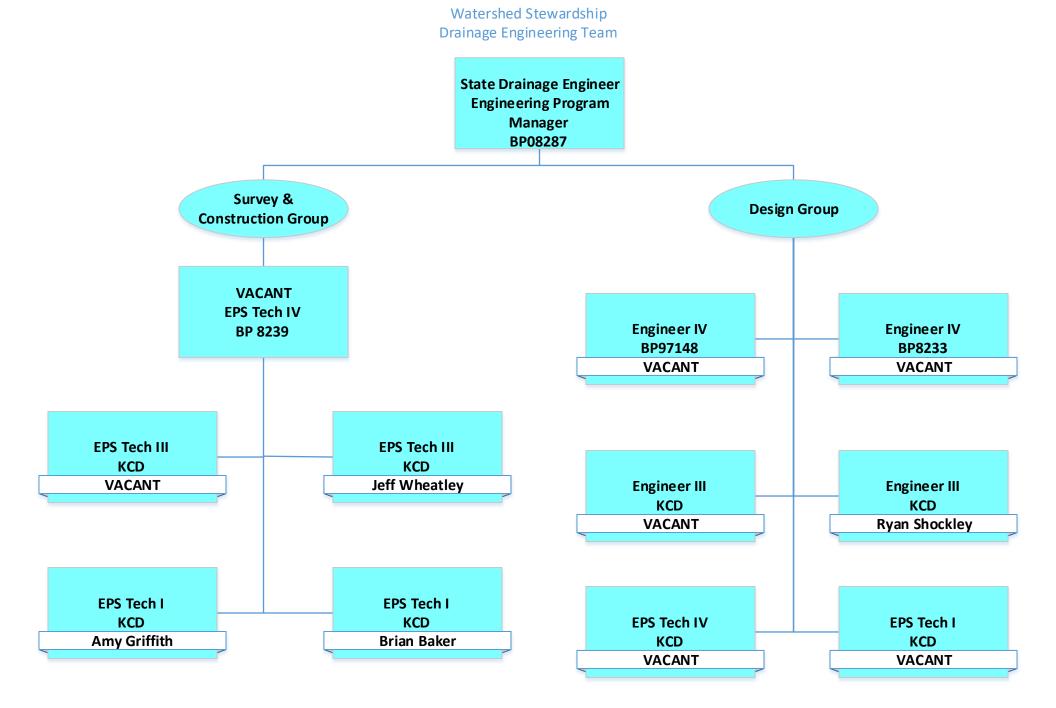


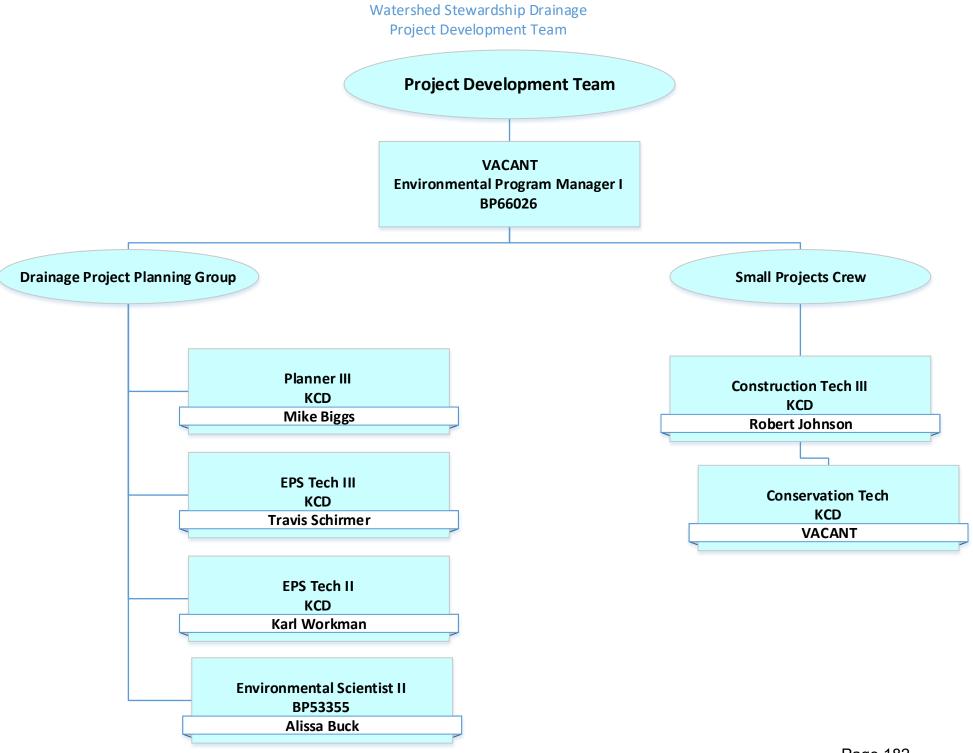
## Watershed Stewardship Tax Ditch Team Tax Ditch Team Env. Prog. Mgr I BP 8244 Melissa Hubert TD Technical Asist. TD Admin. Assist. Coordinator Planner III Coordinator Planner III KCD NCCD Aaron Gorka Michele Garner Sr. Application Sup. **EPS Tech III** EPS Tech II Specialist KCD BP 8237 KCD

John Inkster

**Greg Allis** 

Heather Hitchens





# Appendix G RC&D 21<sup>st</sup> Century Fund Expenditure Report

### 21st CENTURY DRAINAGE EXPENDITURE REPORT BY FISCAL YEAR BY COUNTY ALL BALANCES REPORTED ARE ACCURATE AS OF 6/10/2019

	<b>NEW CASTLE</b>	KENT	SUSSEX	TOTAL			
ALLOCATIONS							
Allocated - FY1996-FY2009	44,552,468	6,503,823	11,311,984	62,368,276			
Allocated FY2016	1,350,458	427,730	1,221,812	3,000,000			
Allocated FY2017	1,795,962	533,784	1,483,054	3,812,800			
Allocated FY2019	1,890,000	756,000	1,554,000	4,200,000			
Total Allocated	49,588,888	8,221,337	15,570,850	73,381,076			
	EXPEN	DITURES					
Expended FY1996 - FY2000 <sup>1</sup>	8,915,505	459,453	2,794,700	12,169,659			
Expended FY2001	2,828,048	1,002,740	1,034,838	4,865,626			
Expended FY2002	2,032,709	368,542	1,073,955	3,475,206			
Expended FY2003	2,294,881	408,426	657,955	3,361,262			
Expended FY2004	3,822,121	289,670	516,528	4,628,319			
Expended FY2005	3,351,504	199,982	521,912	4,073,397			
Expended FY2006	3,424,161	257,838	94,697	3,776,696			
Expended FY2007	6,103,468	150,146	219,644	6,473,257			
Expended FY2008	2,866,457	177,040	360,432	3,403,928			
Expended FY2009	1,523,193	51,199	424,434	1,998,825			
Expended FY2010	356,680	97,795	359,653	814,128			
Expended FY2011	1,958,028	279,399	199,291	2,436,717			
Expended FY2012	705,171	223,112	108,293	1,036,576			
Expended FY2013	747,352	342,501	690,257	1,780,111			
Expended FY2014	527,924	421,171	282,913	1,232,008			
Expended FY2015	1,309,287	563,513	586,974	2,459,775			
Expended FY2016	1,448,683	568,644	1,187,668	3,204,996			
Expended FY2017	1,315,066	460,894	541,334	2,317,294			
Expended FY2018	1,364,087	256,508	716,598	2,337,193			
Expended FY2019	838,392	326,556	1,529,364	2,694,312			
Total Expended	47,732,715	6,905,130	13,901,440	68,539,286			
Allocated Unexpended Balance	1,856,173	1,316,207	1,669,410	4,841,790			
Allocated Open Encumbrances	1,856,173	326,556	580,555	2,763,283			
Allocated Unencumbered Balance	0	989,651	1,088,855	2,078,506			

<sup>&</sup>lt;sup>1</sup> Not tracked by fiscal year by county for first 5 years



## DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL DIVISION OF WATERSHED STEWARDSHIP

89 Kings Highway
DOVER, DELAWARE 19901

OFFICE OF THE DIRECTOR

PHONE: (302) 739-9921 FAX: (302) 739-6724

### **MEMORANDUM**

TO:

Secretary Shawn M. Garvin

THRU:

Terry L. Deputy, Director 🔾 🛴

FROM:

Robert R. Palmer, Administrator

SUBJECT:

State and County Matching Funds (3921 Funds)

DATE:

August 28, 2019

Funding in the amount of \$225,000, as required by 7 Del. C. § 3921, is annually provided to the Department for distribution to New Castle, Kent and Sussex Conservation Districts. This equates to \$75,000 for use in in each County for the purpose to pay or assist in paying all costs including personnel required for planning, construction, installation and maintenance of tax ditches, public group ditches, highway ditches and resource conservation projects in Sussex, Kent and New Castle Counties. This funding is matched by the County government and then used as part of a Cost Share program that further leverages the funding by requiring matching funds from the tax ditch organization or landowners using the funding.

7 Del. C. § 3923 states: "The money appropriated pursuant to § 3921 of this title shall be used by the Division of Watershed Stewardship to pay or assist in paying all costs including personnel required for planning, construction, installation and maintenance of tax ditches, public group ditches, highway ditches and resource conservation projects in Sussex, Kent and New Castle Counties, which tax ditches shall be organized under Chapter 41 of this title; Article 2, Chapter 65, and Article 1, Chapter 105 of the 1935 Revised Code of Delaware; and which public group ditches shall be ditches providing water management and drainage for groups of landowners and for landowners and portions of state highways and for which necessary construction permits, easements or rights-of-way for construction and maintenance operations shall have been acquired by this State or by Sussex, Kent or New Castle County, and which highway ditches shall be ditches maintained by the public on state or county-owned easements or rights-of-way adjacent to the roads of Sussex, Kent or New Castle County, and which resource conservation projects shall be defined in applications or project plans submitted to the Secretary of the United States Department of Agriculture for Watershed Planning or Resource

Conservation and Development assistance. The money appropriated shall be paid from time to time by the State Treasurer and the governments of Sussex, Kent and New Castle Counties to the Division of Watershed Stewardship, or to the Sussex Conservation District, the Kent Conservation District, or the New Castle Conservation District, or directly to the contractors and suppliers furnishing work, labor, services and materials for such projects or to landowners for rights-of-way or easements, or shall be paid or otherwise made available to other state agencies for work, labor, services and materials for certain portions of such projects as shall be determined by the Division and upon certification by the Division that such payments are proper and for the purposes authorized by this section"

Since this funding is stipulated by State of Delaware statute the funding should not be delayed. More importantly this funding is desperately needed to allow the Conservation Districts to assist Tax Ditch Organizations and other landowners in maintaining drainage infrastructure and alleviating drainage problems.

The importance of the 3921 funds are to assure the implementation of agriculture best management practices (BMPs) essential to provide environmental protection in specific areas of Delaware watersheds including the geographic areas the drain to the Chesapeake Bay, Delaware Bay and/or the Inland Bays.

Secretary

\_\_\_\_ Approved\_\_\_\_\_\_ Disapproved

Attachment



## STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL DIVISION OF WATERSHED STEWARDSHIP

OFFICE OF THE DIRECTOR

89 Kings Highway
DOVER, DELAWARE 19901

PHONE: (302) 739-9921 FAX: (302) 739-6724

### **MEMORANDUM**

TO:

Secretary Shawn M. Garvin

THRU:

Terry L. Deputy, Director

FROM:

Robert R. Palmer, Administrator

SUBJECT:

Conservation Cost Share Program

DATE:

September 5, 2019

Using funds provided through the FY2020 Delaware Bond Bill, the Conservation Districts will manage appropriations of funding dedicated to the Tax Ditch organizations as detailed within Senate Bill 180, Section 88. The section appropriates \$500,000 to the Department of Natural Resources and Environmental Control (DNREC) for the purpose tax ditch maintenance work projects in Sussex, Kent and New Castle Counties.

Section 88 states: "Tax Ditches. Section 1 Addendum of this Act makes an appropriation to the Department of Natural Resources and Environmental Control for Tax Ditches. Of this amount, \$500,000 shall be divided at a rate based on the total number of miles of tax ditch statewide and distributed to the three conservation districts based on the number of miles of tax ditch in each county. This funding shall be used for tax ditch maintenance work to be completed at the direction of the tax ditch organizations and/or their managers who are in compliance with 7 Del. C. c. 25."

In accordance with the language above, the funds will be distributed to the three Conservation Districts based on the number of miles of tax ditch in each county. Funds will be distributed according to the following table:

County	Tax Ditch Miles	FY2020 Bond Bill Funding
New Castle County	57	\$ 14,095
Kent County	751	\$ 185,707
Sussex County	1214	\$ 300,198
Totals	2022	\$ 500,000

Since this funding is stipulated by statute the funding should not be delayed. More importantly this funding is desperately needed to allow the Conservation Districts to assist Tax Ditch Organizations and other landowners in maintaining drainage infrastructure and alleviating drainage problems.

The importance of the additional funding as appropriated through FY2020 Bond Bill, Senate Bill 180, Section 88 is a critical step to assure organizations overseeing Delaware's tax ditch systems can initiate much needed and important maintenance projects.

Approved Disapproved Shawn M. Garvin Date Secretary
---

Attachment

### INTERAGENCY PROJECT AGREEMENT

### NEW CASTLE COUNTY RESOURCE, CONSERVATION & DEVELOPMENT PROJECT IMPLEMENTATION N-FY2020-001

## TWENTY-FIRST CENTURY FUND RESOURCE CONSERVATION AND DEVELOPMENT PROJECT (FY20) NEW CASTLE COUNTY, DELAWARE

THIS AGREEMENT, made this day of day of day, 2019, BY AND BETWEEN, the Department of Natural Resources and Environmental Control, hereinafter called "The Department" and the New Castle Conservation District hereinafter called "NCCD".

#### WITNESSETH THAT:

WHEREAS; Senate Bill 180 of the 150<sup>th</sup> General Assembly, appropriated funds for Resource Conservation and Development Projects dedicated to improve the health of communities by addressing a variety of State-wide watershed and drainage issues consistent with the policies of the Cabinet Committee on State Planning Issues; and

WHEREAS, said appropriations provide funds for projects located in New Castle County; and

WHEREAS, House Bill 410, Section 76 of the 146<sup>th</sup> General Assembly requires that monies appropriated from the Twenty-First Century Fund have a funding match of at least 10%; and

WHEREAS, Resource Conservation and Development Projects have been approved by the Joint Legislative Committee on the Capital Improvements Program;

NOW, therefore, in consideration of the premises and of the several promises to be faithfully performed by the parties hereto as set forth, The Division and NCCD do hereby agree as follows:

- A. It is agreed that the NCCD will provide project management and construction using NCCD or contractor resources for any Twenty First Century Fund Project approved by the Joint Committee for Capital Improvement at an estimated total cost of \$2,555,556.
- B. It is agreed that this project will utilize Twenty-First Century Funds and non Twenty-First Century Funds for the required match as shown in the table below:

Project Name	Resource Conservation and Development Funds	Funds provided by the NCCD	Description
Approved New Castle Resource, Conservation, and Development Projects	FY2020 \$2,300,000	\$255,556	Project Management and Construction

### C. The Department will:

- 1. Provide \$2,300,000 toward the cost of the work described in "A" and "B".
- 2. Pay for the cost of said work up to \$2,300,000, directly to the NCCD on a monthly basis upon receipt of a statement for works performed or supplies purchased.
- 3. Provide administration and technical assistance as required.

### D. NCCD will:

- 1. Obtain and provide \$255,556 toward the cost of construction of the projects described in item "A".
- 2. Obtain and provide the necessary land rights needed for the construction of said projects.
- 3. Be responsible for obtaining any and all applicable permits.
- 4. Be responsible for complying with all relevant State and Federal laws.
- 5. Be responsible for undertaking, implementing and supervising all aspects related to said projects including but not limited to project planning, design, bid preparation and award, construction and inspection.
- 6. Arrange for final inspection of and certification that the projects meet the construction plans and specifications.
- 7. Keep accurate records of the expenditure of these funds and notify The Department in writing when the project is completed, such notification shall include the above stated inspections and certification documents.
- 8. Assure that these funds will only be on projects that have been approved by the Joint Committee for Capital Improvement.
- 9. Supply to The Department documentation of the required 10% match.

New Castle County RC&D Implementation Project Agreement Page 3

### E. It is mutually agreed that:

- Financial commitments are contingent upon the continuing availability of appropriations by the Legislature and County Government from which payment may be made. The Department or NCCD shall not be obligated if the Legislature or the County fails to appropriate funds.
- 2) The Department, nor NCCD, shall assume any responsibilities for future maintenance.
- 3) All parties hereby acknowledge that this Agreement has financial limits that cannot be exceeded except by agreement of all parties in writing.

New Castle County RC&D Implementation Project Agreement Page 4

**NEW CASTLE CONSERVATION** 

DISTRICT

DEPARTMENT OF NATURAL

RESOURCES AND

Date:

ENVIRONMENTAL CONTROL

District Coordinator

Secretary, Shawn M. Garvin

Date:

### Department of Natural Resources and Environmental Control (DNREC) Division of Watershed Stewardship

### Tax Ditch Internal Controls Advice & Audit Procedures Guide

DNREC provides administrative and technical assistance to tax ditch organizations. As a joint effort with the State of Delaware Office of Auditor of Accounts (AOA), we have developed this document to provide guidance in matters of internal controls, financial statement preparation, and audit procedures.

Tax ditch organizations are governmental subdivisions of the State of Delaware that are required by law to hold annual meetings, elect officers, keep meeting minutes, prepare financial statements, have financial statements audited, and secure bond for the secretary-treasurer. Once elected, tax ditch officers have a fiduciary responsibility to the landowners, also known as the taxables, to ensure the tax ditch functions properly and to ensure adequate safeguards are in place over tax ditch assets. A system of internal control that promotes efficiency, yet minimizes risk, is essential.

### **Internal Controls**

As management and the fiscal stewards of the tax ditch, the managers are responsible for the creation and maintenance of a system of internal controls to ensure effective and efficient organizational operations. However, internal controls are not foolproof. Management's monitoring of and attitude towards the adherence to control procedures are critical to making controls work. Support for good controls must come from all levels of the organization without regard to title, position, or contribution to the organization. Support includes the willingness to recognize and take corrective steps when fraud, waste, or abuse is suspected or has occurred.

A well-designed system of internal controls must include written policies and procedures and good supporting documentation to ensure each control objective is met. Failure to meet control objectives constitutes a weakness in an entity's internal controls system. The three categories of objectives, as defined by COSO<sup>1</sup>, are as follows:

- Operations objectives relate to the overall operations of the entity.
- Reporting objectives ensure that all information used and output by the entity are accurate and reliable.
- Compliance objectives relate to the entity's compliance with laws and regulations.

There are five components of internal control which include the control environment, risk assessment, control activities, information and communication, and monitoring. All of these components should be evident in each entity's system of internal controls.

- Control Environment
  - o Sets the tone of the organization;
  - o Provides discipline and structure;

<sup>&</sup>lt;sup>1</sup> The Committee of Sponsoring Organizations of the Treadway Commission (COSO), *Internal Control – Integrated Framework* has been used as a blueprint for the private and public sectors to establish internal controls that promote efficiency, minimize risks, promote the accuracy and reliability of financial statements, and encourage compliance with laws and regulations. In addition to COSO, the tax ditch should consider the *Standards for Internal Control in the Federal Government* (known as the Green Book), issued by the United States Government Accountability Office (GAO), which may be adopted by state, local, and quasi-governmental agencies, as well as not-for-profit organizations. The Green Book can be found at <a href="http://www.gao.gov/assets/670/665712.pdf">http://www.gao.gov/assets/670/665712.pdf</a>.

o Factors include: integrity, ethical values, competence, management's philosophy and operating style, and attention and direction provided by leadership.

#### • Risk Assessment

- o External and internal sources;
- o Identification and analysis of relevant risks;
- o Basis to determine how the risks should be managed.

#### Control Activities

- o Policies and procedures that help ensure management directives are carried out;
- o Ensure that necessary actions are taken to address risks;
- o Includes: approvals, authorizations, verifications, reconciliations, reviews of operating performance, security of assets, and segregation of duties.

#### • Information and communication

- o Pertinent information must be identified, captured and communicated in a form and timeframe that enable people to carry out their responsibilities;
- o Effective communication flows down, across, and up the organization.

### Monitoring

- o A process that assesses the quality of the system's performance over time;
- o Ongoing monitoring activities such as review of monthly bank reconciliations;
- o Separate evaluations such as financial audits.

No organization is immune to the potential threat of fraud. Losses due to fraud can be especially devastating to smaller companies, especially non-profits, which have limited resources and smaller revenue streams. This makes the identification, mitigation, and deterrence of fraud risk for smaller organizations crucially important to their very survival.

Any employee, no matter what level they are in an organization, that has sufficient *opportunity* coupled with real or perceived economic pressure or other *motivation* and who can *rationalize* the criminal behavior can commit fraud. Those employees organizations consider "highly trusted" undertake a high percentage of fraud schemes because of the increased opportunity inherent in the trusted employee position.

It is much easier to prevent fraud than to detect fraud. Most experts agree that the single most effective way to prevent fraud is to increase the perception that fraud will be detected if perpetrated. This decreases the fraudster's perceived opportunity that the fraud will be successful. Effectively designed and implemented controls used for the detection of fraud are a good way to decrease the fraud risk in any organization. Below are some controls that could minimize the risk of fraud which should be adopted by the tax ditch:

- All accounts (including CD's and savings accounts) shall have at least two authorized signers who are current officers.
- Require two (2) officers to sign checks or withdraw funds.
- Checks should not be pre-signed.
- The officers should see a valid invoice or receipt prior to issuing/signing a check.
- Checks should never be written to cash.
- No debit cards or credit cards shall be issued.
- No cash payments.
- No petty cash.
- Personal reimbursement may be made only with supporting documentation (i.e., a detailed receipt) within 60 days of the expense.

### Financial Statement Preparation

The excerpt of Delaware Code below describes the duties of the tax ditch secretary-treasurer.

### Per 7 Del. C. §4163 (2) and (3). Duties of secretary-treasurer of tax ditch.

- "(2) Prepare a complete financial statement at the end of each calendar year, including therein an itemized report of all funds received, all funds expended, all funds due from taxes not yet collected and all sums due and owing by the tax ditch, and this statement and the records of the secretary-treasurer shall be audited annually by 2 qualified persons and shall become part of the permanent records of the tax ditch:
- (3) Provide for the safekeeping of any funds of the Tax Ditch which are placed in his or her custody."

The fiscal year of a tax ditch is from January 1<sup>st</sup> to December 31<sup>st</sup>. DNREC and AOA developed the financial statement form at Appendix A to assist the tax ditch in the preparation of the annual financial statement. The form shows beginning and ending balances, receipt/disbursement amounts with explanations, fixed assets belonging to the tax ditch, funds due to or owed by the tax ditch (uncollected taxes, loans, outstanding bills, etc.), and a description of any related party transactions that have occurred.

Related parties may be defined as affiliates of the tax ditch (such as a smaller tax ditch that feeds into a larger tax ditch), management of the tax ditch and members of their immediate families, other parties the tax ditch may transact with if the party has control or significant influence over the management or operating policies of the tax ditch, or a tax ditch officer that has ownership interest in a transacting party. Transactions that, because of their nature, may be indicative of the existence of related parties include: borrowing or lending on an interest-free basis or at a rate of interest significantly above or below market rates prevailing at the time of the transaction, making loans with no scheduled terms for when or how the funds will be repaid, exchanging property for similar property in a nonmonetary transaction, and services received without charge. These transactions must be disclosed on the financial statement form.

A manager and the secretary-treasurer shall sign the financial statement when completed and then submit the complete financial statement package for audit. The audited financial statement package should be presented at your annual meeting.<sup>2</sup>

### Audit Procedures

Delaware Code requires that an annual financial statement be prepared by the secretary-treasurer and that this statement be audited by two qualified persons. AOA recommends auditors are:

- Not tax ditch officers
- Not signers on the bank account
- Not related to signers on the bank account
- Two persons with a financial background (DNREC can assist with this upon request 302-855-1930)
- Accountants with the Conservation District
   Kent Conservation District, Gayle Wills, 302-741-2600
   New Castle Conservation District, Bonnie Weiskott, 302-832-3100
   Sussex Conservation District, Dan Lee, 302-856-2105
- A Certified Public Accountant (CPA) with a private accounting firm (paid or voluntary)

<sup>&</sup>lt;sup>2</sup> Tax ditches which meet in early January may not be able to present an audited financial statement due to not having the December bank statements on hand. In these cases, the secretary-treasurer can present an un-audited statement at the meeting.

A *Tax Ditch Audit Checklist* is included as Appendix B of this document and is to be used by the auditors to document the procedures performed. Below is a general overview of what procedures should be included in a tax ditch audit:

- 1) Review financial statement and examine financial records and supporting documents (i.e. reconciled bank statements, invoices/bills, receipts, canceled checks front and back, payment authorization for officer compensation/reimbursement such as current meeting minutes reflecting approval of compensation).
- 2) Verify all authorized signers on the accounts are current (obtain from the bank).
- 3) Verify that fixed assets are accounted for. For example, if the tax ditch owns an all-terrain vehicle, computer, printer, etc., its whereabouts are known; the item is secure; and it is available for the managers to use. Current year purchases of items costing more than \$50 that are expected to last more than one year should be included in the list of fixed assets.
- 4) Should there be any discrepancies in the record, a meeting with the managers and the auditors is recommended.
- 5) Provide an overall assessment of the audit: Pass/Pass with immaterial deficiencies/Fail. Immaterial deficiencies are defined as differences attributable to rounding or unsupported expenditures less than \$100 (single item or aggregate). Any differences above these amounts constitute a "Fail" rating.
- 6) If there is an apparent or a suspected misappropriation of funds, we recommend that the auditors contact the DNREC Division of Watershed Stewardship immediately at 302-855-1930.

A copy of the audited financial statement, including the Audit Check List, reconciled December bank statements (checking, savings, CD), and meeting minutes must be submitted to the DNREC Division of Watershed Stewardship (see address below). This will assist in meeting eligibility requirements for State and County cost share funds for maintenance activities such as mowing, cleanout, pipe replacement, etc.

DNREC, Division of Watershed Stewardship 21309 Berlin Road, Unit #6 Georgetown, DE 19947 (302) 855-1930 e-mail: michele.garner@state.de.us

### **Bonding of Secretary-Treasurer**

Delaware Code requires that the secretary-treasurer of a tax ditch be bonded. A bond is basically an insurance policy.

#### Per 7 Del C. §4164. Bond of secretary-treasurer.

"The secretary-treasurer shall, before assuming the duties of his office and within 15 days after his election, furnish a bond in favor of the tax ditch, in an amount satisfactory to the ditch managers and with a surety to be approved by the ditch managers, conditioned for the faithful performance of his duties and for the payment to his successor of all tax ditch funds. If any person elected secretary-treasurer neglects or refuses to give bond as aforesaid within the time specified, his right to hold such office shall be terminated, and the ditch managers shall call a special meeting of the taxables to elect a new secretary-treasurer who shall give bond and security as provided in this section."

DNREC and AOA recommend that all tax ditch officers be bonded. The tax ditch can choose the insurance agent or bonding company preferred. DNREC maintains a list of various companies that offer bonding. Costs vary between companies and by the type of bond purchased.

- Blanket Position Bond (Government Crime Policy) bonds each officer position.
- Fidelity Bond bonds each officer (an application must be completed for each officer with personal information such as name, address, occupation, and, with some companies, social security number).

The managers should ensure that the bond has been renewed annually. A copy of the Bond Certificate (proof of bonding) should be kept by each officer and an additional copy sent to the DNREC Division of Watershed Stewardship.

For questions regarding any of the above information, please contact:

DNREC, Division of Watershed Stewardship 21309 Berlin Road, Unit #6 Georgetown, DE 19947 (302) 855-1930 e-mail: <a href="michele.garner@state.de.us">michele.garner@state.de.us</a>

	Tax Ditch				
	J	anuary 1 through December 31,	Financial Statement		
Account #	1: (Bank name and ty	pe of account)	Accou	ınt #:	
			Beginning Balance January 1	\$	
	(agrees to bank sto	atement and ending balance of pric	or year Financial Statements)		
Receipts:		Received from	Activity/Item	Amount	
Date	Treasury Division		Deposit of Tax Funds (Jan)	Amount	
	Treasury Division		Deposit of Tax Funds (July)		
	Treasury Division		Deposit of Tax Funds (Nov)		
	Interest (checking/		1/1/ to 12/31/		
	Cost Share Funds				
			1	1	
			Total Receip	sts \$	
Disbursem	nents:		_		
Date	Check #	Payment To	Activity/Item	Amount	
			Total Disbursemen	ts \$	
		_	December 31 (agrees to bank statement)	<u> </u>	
	(Beginning Balance	ce, plus Total Receipts, less Total I	Disbursements should equal Ending Bala	ance)	
	*At	tach copy of bank statement.			

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Tax Ditch				
Ja	nuary 1 through December 31,	Financial Statement		
: (Bank name and typ	be of account)	Acco	ount #:	
		Beginning Balance January 1	\$	
(agrees to bank sta	tement and ending balance of pri	or year Financial Statements)		
	Received from	Activity/Item	Amount	
Interest (checking/s	savings)	1/1/ to 12/31/		
		Total Recei	ipts \$	
	Payment To	Activity/Item	Amount	
CHECK II	Tayment 10	7 tetrvity/tem	Amount	
			Г.	
		Total Disburseme	ents \$	
	Ending Balance l	December 31 (agrees to bank statemen	t)* \$	
(Beginning Balance	_			
	1 /	1 8	,	
	: (Bank name and type (agrees to bank state)  Interest (checking/sents:  Check #	: (Bank name and type of account)  (agrees to bank statement and ending balance of price  Received from  Interest (checking/savings)  ents:  Check # Payment To  Ending Balance I	January 1 through December 31, Financial Statement  : (Bank name and type of account) Acco  Beginning Balance January 1 (agrees to bank statement and ending balance of prior year Financial Statements)  Received from Activity/Item  Interest (checking/savings)	

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January 1 through December	31, Financia	al Statement	
Certificates of Deposit	<del>,</del>		
Account #			
Opened Date Matures			
Beginning Balance January 1 (agrees to bank statement			
and ending balance of prior year Financial Statements)			
Interest earned			
Ending Balance December 31 (agrees to bank statement)*	\$		
Account #			
Opened Date Matures			
Beginning Balance January 1 (agrees to bank statement			
and ending balance of prior year Financial Statements)			
Interest earned			
Ending Balance December 31 (agrees to bank statement)*	\$		
*Attach copy of bank statement.			
Cash Summary			
Account #1	\$		
Account #2	\$		
CD #1	\$		
CD #2	\$	1	
Total tax ditch cash (ending balance of all accounts)	\$	:	
Fixed Assets: items that cost more than \$50 and have a useful life	a greater than one year (ave	umplace ATV tracto	or computer printer etc.)
Description	Date Acquired	Acquisition Cost	Location
Description	1	1	
Receivables/Liabilities (cost share due, uncollected taxes, loans, c	eredit cards, bills to be paid	, etc.)	
		Receivable (R) or	
Description (include statement)		Liability (L)?	Balance as of 12/31

\_ Tax Ditch

 $If \ tax \ ditch \ has \ applied \ for \ cost \ share \ funds, \ attach \ approval \ letter(s) \ from \ the \ respective \ conservation \ district.$ 

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		Tax Ditch	
January 1 through Decembe	r 31, Fir	nancial Statement	
Related Party Transactions (see description in <i>Tax Ditch Interna</i>	ıl Controls Advice & A	udit Procedures Guide	)
			Actual Cost or Estimated
Description of Transaction and Relationship		Date	Value
		<u> </u>	
We have read the Tax Ditch Internal Controls Advice & Audit P			
procedures. We also have prepared and reviewed the records a	nd Financial Statemen	t of	Tax Ditch and
believe them to be true and accurate.			
Secretary/Treasurer (sign above)	Manager (sign above	e)	<del></del>
Print Name	Print Name		
Contact #	Contact #		
Date	Date		
<u>Assemble Audit Package</u>			
Complete Financial Statement.	Assemble all st	tatements for Certificat	es of Deposit.
Provide prior year audited Financial Statement.	Provide a list o	f authorized signers fro	om each bank.
Assemble all bank statements for the year for all accounts.	Attach meeting	g minutes for the year.	
Provide check register or ledger.	Attach cost sha	are funds approval letter	r from conservation district.
Provide all invoices and receipts.	Attach Expecte	ed vs. Actual Received I	Revenue (from DNREC).
	Attach Bond C	ertificate.	

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### **Tax Ditch Audit Check List** Audit of \_\_\_\_\_\_(year) Financial Statement of the \_\_\_\_\_\_ Tax Ditch

Tox	T
9 V	Ditcl

	Yes (Y), No (N),			
Not-applicat Auditor #1	Auditor#2			
Auditor #1	Auditor#2	Varify and house statement already shows the toy ditch account in held in the		
		Verify each bank statement clearly shows the tax ditch account is held in the		
		name of the tax ditch (and is spelled correctly) and is not shown as "Trading		
		As" (T/A), "Doing Business As" (DBA), or as a joint account. Verify the		
	<u> </u>	authorized signers are current officers of the tax ditch.		
Jan	Jan	Examine Bank statements Jan – Dec (year) for all deposits and		
Feb	Feb	withdrawals along with supporting documentation. See below:		
Mar	Mar	<ul> <li>Receipts/Deposits – check for County deposits, bank interest, cost</li> </ul>		
Apr	Apr	share funds, etc. and are reflected on the Financial Statement.		
May	May	<ul> <li>Invoices/Bills – check to see that expenses are legitimate and</li> </ul>		
June	June	reflected on the Financial Statement.		
July	July			
Aug	Aug	Auditor #1 & #2 check off in box to the left as you examine each statement.		
Sept	Sept	·		
Oct	Oct	Verify the December bank statement has been reconciled to the checkbook		
Nov	Nov	register or ledger.		
Dec	Dec			
		Certificate of Deposit (CD) Look at prior year Financial Statement to make		
		sure CDs not cashed in are still in existence and inquire if any new CDs have		
		been purchased. Verify all CDs are reported on the Financial Statement.		
		Agree amounts to the bank statement.		
		Verify all amounts on the Financial Statement add properly.		
		Agree the ending balance per account listed in the Financial Statement to the		
		ending balance per the bank statement.		
		Account Closed - Type of Account Acct #		
		Verify ending balance of closed account matches the deposit into a new		
		account or explain circumstances.		
		Closing Balance \$ Date New Account Beginning Balance \$ Date		
		New Account Deginning Datance \$ Date		
		DNREC notified Y/N (circle)		
		County notified Y / N (circle)		
		<u>Fixed Assets</u> Compare to last year's list to ensure it is complete and verify current year asset purchases have been included.		
		<u>Receivables/Liabilities</u> Agree amounts reported to a statement of account,		
		loan agreement, invoice, or other source as applicable.		
<u> </u>	ı	•		
		h Internal Controls Advice & Audit Procedures Guide and acknowledge that		
we have follo	wed these pro	cedures. We have examined the records and Financial Statement of the		
		Tax Ditch and have assessed an overall rating of:		
	$\Box$ Pas	$\Box$ Pass with immaterial deficiencies $\Box$ Fail		
Auditor #1 _		Date		
Print name &	contact #			
Auditor #2 _		Date		
Print name &	contact #			

Submit completed audit form and Financial Statement to DNREC, Division of Watershed Stewardship, 21309 Berlin Road, Unit #6, Georgetown, DE 19947.

# Appendix L Projects Completed in FY2019

### **Completed** Resource Conservation and Development Projects 21st Century Fund

**New Castle County** 

2018 Pig 2017 W 2018 As 2018 10 2018 Pe 2018 Pc 2017 Gr 2018 Th 2018 Tig 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	Completed Projects FY2019 Vestminster Community Bridge Repairs geon Run - 115 Pigeon Run Drive Vestwoods SWMP Shland Nature Center Drainage DO5 North Bancroft Parkway ennrock - 1711 Pennrock Road Dort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle Dongmeadow - 706 Pinewood Drive ickory Woods - Longleaf Lane	Expended  \$200,000.00 \$53,000.00 \$175,000.00 \$93,500.00 \$24,000.00 \$15,000.00 \$48,500.00 \$48,800.00 \$48,800.00 \$50,000.00 \$24,200.00 \$16,400.00	12 12 4 7 9 10 18 23 11	7 13 4 4 1 14 1 9 8
2018 Pig 2017 W 2018 As 2018 10 2018 Pe 2018 Pc 2017 Gr 2018 Th 2018 Tig 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	Vestminster Community Bridge Repairs geon Run - 115 Pigeon Run Drive Vestwoods SWMP Shland Nature Center Drainage DO5 North Bancroft Parkway ennrock - 1711 Pennrock Road ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$200,000.00 \$53,000.00 \$175,000.00 \$93,500.00 \$24,000.00 \$15,000.00 \$8,500.00 \$48,500.00 \$48,800.00 \$48,800.00 \$50,000.00 \$24,200.00	5 12 12 4 7 9 10 18 23 11	13 4 4 1 1 14 1 9 8
2018 Pig 2017 W 2018 As 2018 10 2018 Pe 2018 Pc 2017 Gr 2018 Th 2018 Tig 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	geon Run - 115 Pigeon Run Drive Vestwoods SWMP shland Nature Center Drainage D05 North Bancroft Parkway ennrock - 1711 Pennrock Road ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$53,000.00 \$175,000.00 \$93,500.00 \$24,000.00 \$15,000.00 \$8,500.00 \$48,500.00 \$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	5 12 12 4 7 9 10 18 23 11	13 4 4 1 14 1 9 8
2017 W 2018 As 2018 10 2018 Pe 2018 Pc 2017 Gr 2018 Th 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	Vestwoods SWMP Shland Nature Center Drainage 205 North Bancroft Parkway ennrock - 1711 Pennrock Road ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch endy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$175,000.00 \$93,500.00 \$24,000.00 \$15,000.00 \$8,500.00 \$48,500.00 \$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	12 12 4 7 9 10 18 23 11	1 14 14 1 9 8
2018 As 2018 10 2018 Pe 2018 Pc 2017 Gr 2018 Th 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	shland Nature Center Drainage 205 North Bancroft Parkway ennrock - 1711 Pennrock Road ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$93,500.00 \$24,000.00 \$15,000.00 \$8,500.00 \$48,500.00 \$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	12 4 7 9 10 18 23 11	1 14 1 9 8
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2018 Per 2018 Per 2018 Per 2018 The 2018 Sar 2018 Sar 2018 Lorent 2018 Per 2016 Per 2016 Per 2016 Per 2016 Per 2018 Per 2016 Per	ennrock - 1711 Pennrock Road ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$15,000.00 \$8,500.00 \$48,500.00 \$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	7 9 10 18 23 11	14 1 9 8
2018 Pc 2017 Gr 2018 Th 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	ort Penn - Merchant Street reentree Section 2 - Appletree Court ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$8,500.00 \$48,500.00 \$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	9 10 18 23 11	14 1 9 8
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2018 Th 2018 Tij 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	ne Woods - 122 W. Seneca Drive p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$4,800.00 \$48,800.00 \$50,000.00 \$24,200.00	18 23 11	9
2018 Tij 2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	p Top Farm - 23 Virginia Place andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$48,800.00 \$50,000.00 \$24,200.00	23 11	8
2018 Sa 2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	andom Tax Ditch andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$50,000.00 \$24,200.00	11	
2018 Sa 2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	andy Brae - Highland Circle ongmeadow - 706 Pinewood Drive	\$24,200.00		14
2018 Lo 2018 Hi 2018 Be 2017 M 2016 M	ongmeadow - 706 Pinewood Drive		1 20	10
2018 Hi 2018 Be 2017 M 2016 M		5 15 400.00		14
2018 Be 2017 M 2016 M	ickory woods Longical Lanc	\$9,300.00		12
2017 M 2016 M	entley Place - 344 Owls Nest Drive	\$24,300.00		12
2016 M	Iontchanin Road and Rockland Road	\$44,000.00		4
	leadow Glen - 326 Meadow Glen Drive	\$14,200.00		12
2015 79	98 Blackbird Station Road	\$186,000.00		14
	regg Avenue Drainage	\$23,500.00		4
	aravel Farms - Debra Drive	\$29,000.00	-	12
	200 Gilpin Avenue	\$10,750.00		1
	42 Black Diamond Road	\$128,000.00	-	14
	lbertson Park - 2158 Lori Drive	\$33,350.00		7
	ppoquin Farms - Kingfisher Court	\$25,000.00	-	14
	he Oaks - Community Drainage	\$92,500.00		11
	arlano - 11 Dawes Drive	\$4,500.00		11
	arrcroft Drainage Improvements	\$210,000.00		1
	unleith Community Drainage	\$200,000.00		2
	ockessin Hunt - Alexander Court	\$41,500.00	Li-	4
	ity of New Castle - The Strand between	\$20,000.00		12
	hellpot Creek - Turkey Run from Washingto			1
	hornwood - Charles Pointe/Four Seasons	\$106,000.00		10
	2 Projects	\$2,005,100.00		
	Projects Recommended for Dis			Upara de la composição de

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### **Completed** Resource Conservation and Development Projects 21st Century Fund

**Kent County** 

Fiscal Year Approved	Project Name Total Expended		Rep. Dist	Sen. Dist
	Completed Projects FY2019	to date		
2004	Rt. 44 / Altemus Phase 1*		11	15
1998	Bowers Beach, Town of*		33	16
1999	Peach Basket Road / Rt. 12*		30	15
2013	Hopewell Drive / Gadaingan*		11	15
2014	Viola Phase II drainage improvements**		30, 34	15, 16
2018	Prospect Tax Ditch Main**		30	15 & 18
2003	Willow Grove Road / Blackwell**		29	15
2017	Leipsic Tax Ditch Dip Out**		28	14
1999	Bowers Beach Road / Mallek Phase II**		33	16
* Constructio	n complete waiting on final invoices			
** Active Con	struction wil be complete by June 30			
Totals	9 Projects	\$0.00		
	Projects Recommended for Disc	continuation	, i	Lvet it n
2011	Walnut Street, Felton / Crisco issue resolved by work done as part of Town of Felton L	Orianage Improvements	30	15

### **Completed** Resource Conservation and Development Projects 21st Century Fund

**Sussex County** 

Fiscal Year Approved	Project Name	Total Expended	Rep. Dist	Sen. Dist
	Completed Projects FY2019	to date	19 T 11 12	
2017	Elliott-Nichols Tax Ditch Main Channel Pipe			
	Replacements**		40	21
2006	Highland Acres Tax Ditch Maintenance			
	Dipout**		20	6
1997	Johnson Development Phase II**		39	21
2012	Silver Lake / Rehoboth, Phase 2**		14	6
	Selbyville Flood Drainage Project Phase II		41	20
1996	Railroad Avenue**		41	20
** Active Con	struction wil be complete by June 30			
Totals	5 Projects	\$0.00		
	Projects Recommended for Disco	ontinuation		



## STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL DIVISION OF WATERSHED STEWARDSHIP

89 Kings Highway Dover, Delaware 19901

OFFICE OF THE DIRECTOR

#### MEMORANDUM

TO: Secretary Shawn M. Garvin

THRU: Terry L. Deputy, Director

FROM: Robert R. Palmer, Administrator

SUBJECT: Drainage Program Realignment

DATE: August 20, 2019

### **Executive Summary**

Via this Memo, request approval for the realignment of the Drainage Program to function as two separate and distinct operating units within the Conservation Programs Section of the Division of Watershed Stewardship (the Division). The units will be titled: 1) the Tax Ditch Program, and 2) the Public Ditch Program. The names are subject to change but for the purpose of this discussion will remain as labeled. Each program will be led by an Environmental Program Manager II (EPMII) that will report directly to the Administrator of the Conservation Programs Section. As proposed, the Tax Ditch Program will have an estimated 15 positions focused on tax ditch organization support as well as the survey and construction of related projects. The Public Ditch Program will focus on the design and planning of projects and manage the small projects crew. The Public Ditch Program will also have 14 positions.

It should be noted, both programs will have some over lapping responsibility with interactions on both RC&D and tax ditch projects. In doing so, project funding will be split proportional to the tasks and relative projects. Staff resources will continue to be funded through the General Fund (Merit employees) and the Tax Ditch and Resource Conservation and Development (RC&D) Bond Bill appropriations (District employees).

The realignment will create the immediate need for a reclassification of an existing PMI position to a PMII within the Public Ditch Program. The PMII position vacated by Brooks Cahall will be processed immediately to manage the Tax Ditch Program.

Additionally, the Debris Pit Program and the New Castle County Surveying position will transition under the management of the Tax Ditch Program.

Delaware's good nature depends on you!

PHONE: (302) 739-9921

FAX: (302) 739-6724

### **History**

The Delaware General Assembly enacted the 1951 Delaware Drainage Law to establish ditch companies and to resolve related financial and maintenance issues. As an outgrowth of this Law, the Division was mandated to carry out a comprehensive drainage program through Title 7, Chapter 41 of the Delaware Code. In response, the Drainage Program was established and housed within the Conservation Programs Section.

Since inception, the Drainage Program has significantly grown. The largest programmatic growth occurred as a result of a \$220 million legal settlement in the mid-1990s, the State of Delaware had an unprecedented opportunity to use one-time monies (21st Century – RC&D funds) to make critical long-term investments to meet the economic challenges of the next century. Some of this funding became earmarked to focus on the management, oversite and implementation targeted drainage projects. This led to the creation of "*Public Ditch Team*" within the Drainage Program.

The size and scope of the drainage projects considered for the RC&D fund fluctuate wildly. Current projects range from \$500 to \$4 million dollars. Annual Bond Bill appropriations also vary ranging from \$0 up to \$5 million. No appropriations were made from FY2009 to FY2016. In recent years, allocations of at least \$3 million have been invested by the General Assembly. As such, the Drainage Program has maintained a heavy reliance on Tax Ditch Bond Bill appropriations to support staff and other programmatic needs.

### **Current Status**

The Drainage Program is currently divided into three distinct teams: Tax Ditch, Engineering, and Project Development (see attached). Functions and position numbers are summarized below:

- Tax Ditch 6 positions focused on tax ditch organization support.
- Engineering 12 positions split into equal groups focused on: 1) survey and construction, and 2) design of projects.
- Project Development 7 positions focused on: 1) project planning group, and 2) the small projects crew.

Not represented above are the PMII and an Administrative Assistant I. Staffing levels currently include 27 positions (10 Merit and 17 District) of which 11 are currently vacant. In the past, as many as 35 FTE were appointed to the Drainage Program. These numbers have declined as budget conditions have demanded reductions.

### **Funding**

Merit positions within the Drainage Program are funded through the General Fund appropriations to the Department. District positions are supported by the annual Bond Bill, Tax Ditch appropriation. The FY20 Bond Bill, Tax Ditch appropriation was \$1,148,700 and has remained unchanged for 10+ years.

### **Issues**

Issues facing the Drainage Program are similar to those for many agency led programs. More responsibilities have evolved and budgetary constraints continue to be a challenge. Specifically, a major shift in RC&D project locations has demanded a ramp up of staff and resources to address this shift. Use of the funds is directly tied to development trends. In recent years, the development growth has shifted from its peak in New Castle County years ago to the recent boom in Sussex County. The need to solve drainage and watershed issues has, in turn, increased in the southern region of the state. As such, the Drainage Program responded by adding positions and resources. Management of RC&D projects and drainage issues in New Castle County are administered by the New Castle Conservation District and New Castle County respectively. Other issues include:

- Large staff numbers with lower than average management positions. Organizationally, the Drainage Program has 27 positions. Of these positions, there is one PMII, two PMIs and one Environmental Engineer Program Manager I (EEPMI).
- High turnover of staff resulting in elevated vacancy rates. In recent years, the growth of
  the development community in Sussex County has created a high demand for engineering
  and surveying positions. As such, the Drainage Program has faced ever increasing
  vacancy rates.
- Although allowable, to date the Drainage Program has not billed against the RC&D Bond Bill appropriations. Instead, a greater reliance on the Tax Ditch appropriation has perpetuated. This places an undue burden on the Tax Ditch resources and removed potential funding opportunities for much needed program activities including tax ditch assessment and maintenance.
- Facing historically high rainfall events in 2018 and 2019, the Drainage Program was
  responsible to manage record numbers of drainage complaints. This shift of duties,
  combined with high vacancy rates, has drawn attention away from critical project
  management and oversight.
- Increased scrutiny by the Conservation Districts as well as members of the General Assembly.

### **Needs**

To move forward and gain progress, some basic needs must be fulfilled to assure the Drainage Program is effectively and efficiently maintained:

- 1. Mechanism to accommodate variable workload and ever-changing staff resources. The program is made up of highly sought after engineering and surveying staff. As such, the Drainage Program faces many staff challenges.
- 2. Steady funding source to support RC&D projects, tax ditch and related activities.
- 3. Strengthened partnership with Conservation Districts.

#### **Options**

Although there are certainly many options and paths forward, I am limiting my consideration to three. These are:

- Reclassify the vacant PMII position to an Administrative level position. The position
  Brooks Cahall occupied was originally an Administrator position that was cut as vacated
  during past budget challenges. No formal evaluation was conducted to demonstrate the
  efficiencies lost it just happened to be a vacancy that existed when a position needed to
  be cut.
- 2. Divide and support programs by function (Public Ditch Program and Tax Ditch Program). Contract much of our needed engineering and survey work. Evaluate and distribute current and vacant staff to accommodate needs. Anticipate no net loss of FTEs.
- 3. Leave as is and rehire PMII immediately.
- 4. Transition RC&D responsibility to Kent and Sussex Conservation Districts (the NCCD model). In doing so, the size, scope and scale of the Drainage Program would need to be evaluated and re-organized to accommodate the shift of workload.

### **Recommendation**

If the reclassification of the PMII to an Administrator position is unlikely, I recommend consolidation of the Drainage Program from three teams to two distinct, independently operational, and separate programs. The appropriate split would be transitioned into the Public Ditch Program and a Tax Ditch Program. I am not set on the names and the realignment certainly could warrant a name change. However, as it's best to convey the path forward under familiar nomenclature, I am leaving the program names as those easily recognized.

The foundation for the Public Ditch Program will be the Project Development Team as is currently staffed and the addition of the Design Group split from the Engineering Team. Overall, I anticipate very few changes will be required for the Tax Ditch Program with the exception of the inclusion of the Survey & Construction Group as split from the Engineering Team. In so doing, the currently vacant PMI within the Project Development Team will warrant a reclassification to a PMII or potentially an Environmental Engineering PMII. The PMII vacated by Brooks Cahall will be immediately posted to serve as the manager for the Tax Ditch Program. While there will ultimately be overlap of tasks and responsibility, transition would make the broad responsibilities of what is now the Drainage Program more manageable on a day to day basis. As proposed, both PMII positions will report directly to the Administrator of the Conservation Programs Section.

Management of RC&D projects will transition from reliance on in-house resources to contracting and outsourcing the necessary activity including engineering and surveying. While this does not preclude internal staff from providing such services, this transition will simply relieve the reliance of such. Funding for the newly formed programs will be split accordingly between the Bond Bill allocation for tax ditches and RC&D. Staff will record activity to accurately support billing.

Staffing needs will be reviewed and assessed to assure adequate positions and resources are available to efficiently and effectively manage the tax and public ditch projects. For example, I would suggest a shift from multiple Design Engineers to positions that include project and budgetary oversight responsibilities as the transition will place a higher accountability on these activities. It should be noted, Engineers will continue to play a valuable role in the newly formed Tax Ditch and Public Ditch Programs and the numbers within the programs will more

than likely remain unchanged as it is advantageous for the Department to provide quality engineering oversight for many of the projects undertaken.

Additionally, I would suggest we expand the Small Projects Crew to provide for a more immediate response to small scale remedies. Addressing small concerns promptly, historically allowed the Drainage Program to keep small scale projects off the RC&D list by responding efficiently to such concerns.

To give an idea of the future responsibilities of the formed Programs, I am highlighting the activities below. Where appropriate, I highlighted the common overlapping activities:

### Tax Ditch Program Tasks

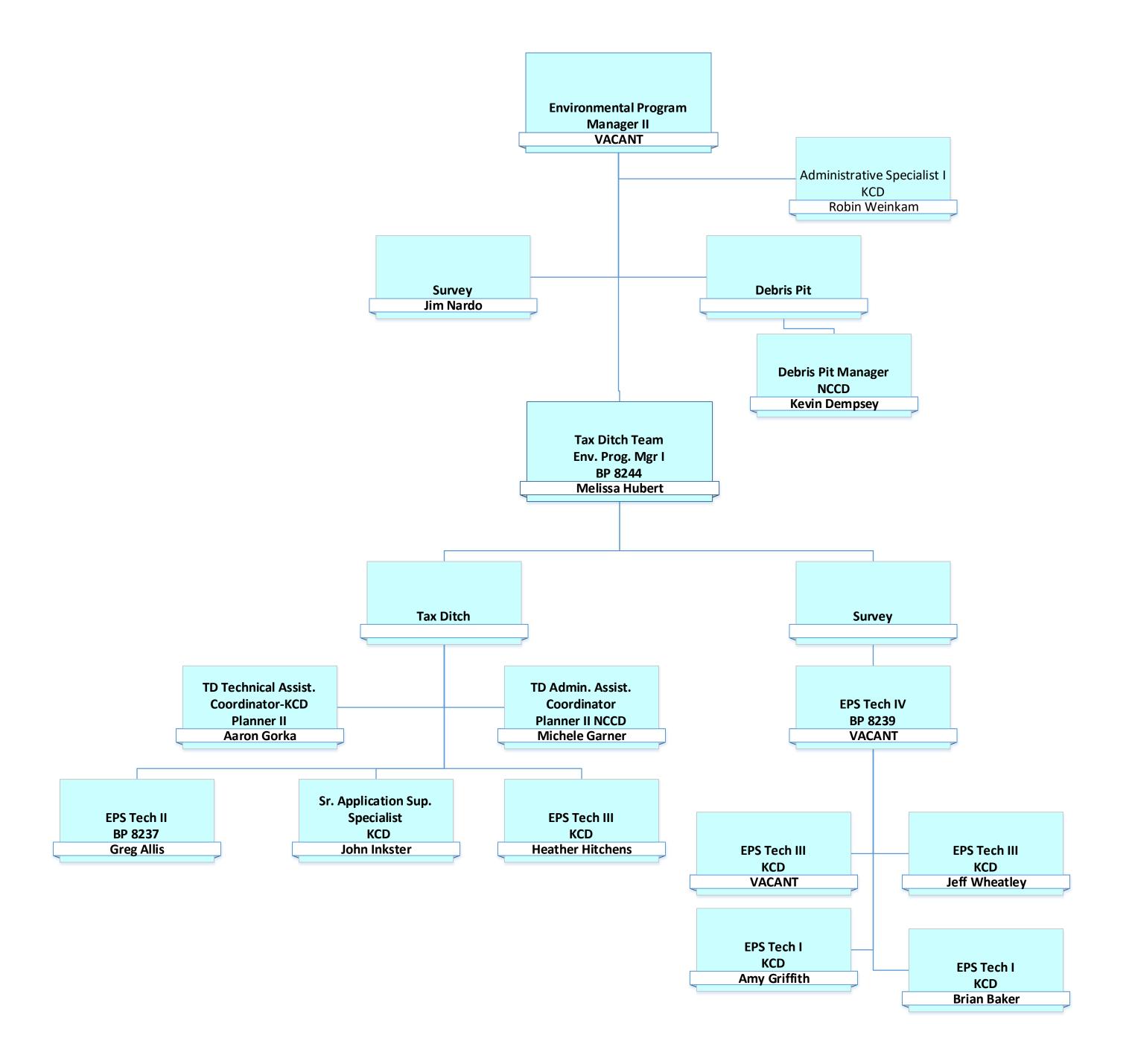
- Tax Ditch Law implementation
- Tax Ditch organization support
- Tax Ditch outreach and education
- Tax Ditch assessment and maintenance evaluations
- Statewide survey work for DNREC and District managed projects (including RC&D)
- Statewide permitting for DNREC and District managed projects (including RC&D)
- Debris pits

### Public Ditch Program Tasks

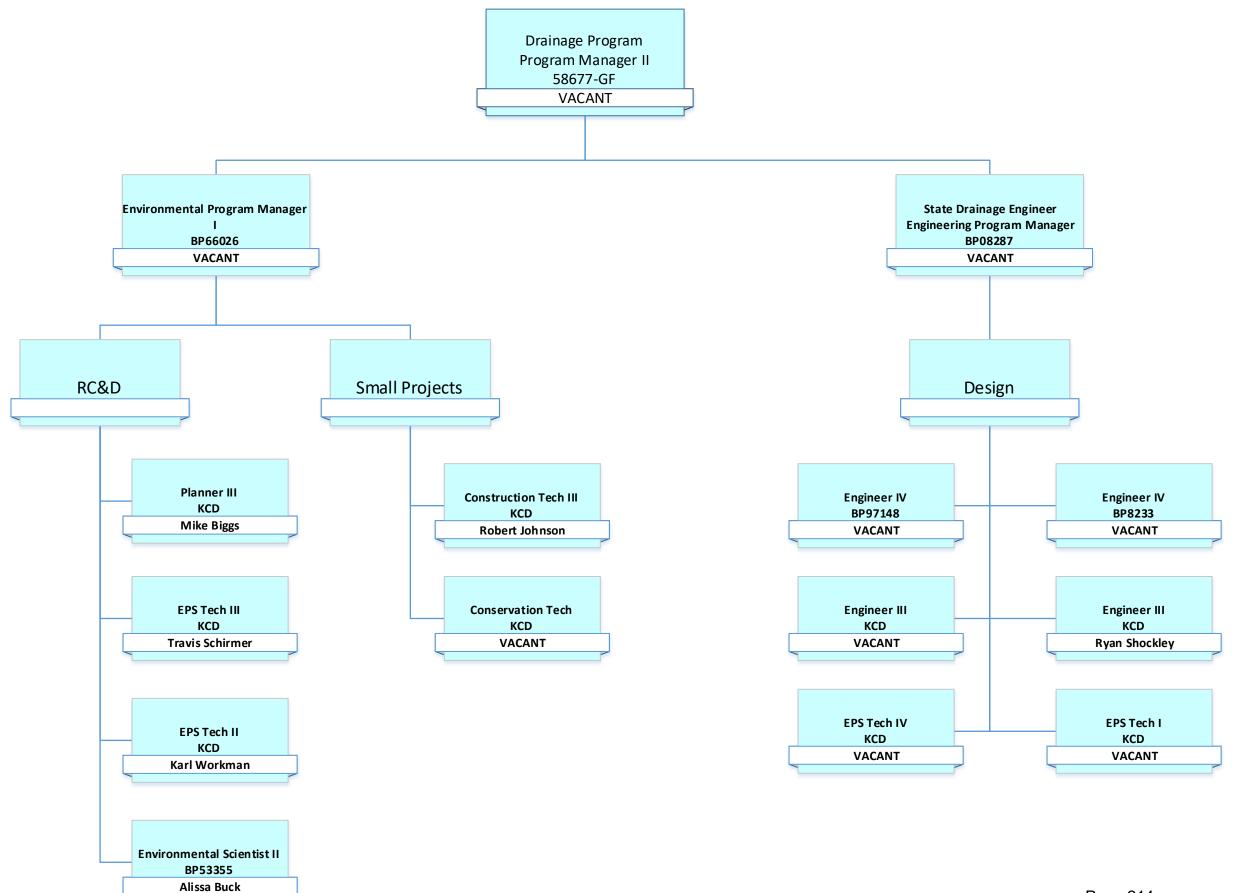
- RC&D Program
- Coordination with Districts for drainage projects
- Drainage concerns
- Project development (including Tax Ditch projects)
- Contract development and oversight (including Tax Ditch projects)
- Landowner permission (including Tax Ditch projects)
- Project oversight
- Small projects (including Tax Ditch projects)

Other notable changes will include the Debris Pit Program and the New Castle County Surveying position currently filled by Jim Nardo transitioning under the management of the Tax Ditch Program. This transition will allow more support for these single position programs.

# Watershed Stewardship Drainage Tax Ditch Program



## Watershed Stewardship Drainage Public Ditch Program



## SYNOPSIS OF ISSUES FACING TAX DITCH ORGANIZATIONS TODAY

### PREPARED BY:

Delaware Department of Natural Resources and Environmental Control Conservation Program Section- Drainage Program

### Members:

Brooks Cahall- Drainage Program Manager

Melissa Hubert- Tax Ditch Program Manager

Michele Garner- Tax Ditch Planner II

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Gregory Allis- Tax Ditch EPS Technician

Aaron Gorka- Tax Ditch Planner II

Delaware has 234 individual tax ditch organizations. These organizations manage over 2,000 miles of channels and provide drainage benefits to 46,292 properties in Delaware and almost one-half of the State-maintained roads. The Uniform Drainage Law also known as the Tax Ditch Law was passed to create a system of watershed based organizations to maintain drainage ditches throughout the state in perpetuity. This law replaced previous "Ditch Company" legislation that created ditch companies which only lasted for 7 years. Tax Ditch organizations were primarily created to provide agricultural drainage and were designed by the Soil Conservation Service (now known as the Natural Resources Conservation Service) for this purpose. However, Delaware has changed a lot in the last 68 years and the majority of tax ditch systems (90%) are at least 35 years old. Some aspects of the tax ditch system are not functioning well in the today's environment. This report identifies reasons the tax ditch infrastructure has become degraded and suggests potential solutions for addressing each.

### **Degraded and Aging Tax Ditch Infrastructure**

As mentioned above over 90% of tax ditch channels were constructed prior to 1985. The recommended major maintenance or "dipout" cycle is every 15-20 years. This means that if maintained as prescribed most tax ditches have undergone major maintenance between two to four times to date. What we have observed is after multiple maintenance cycles ditches can experience significant bank stability issues. In addition, many ditches have not been maintained on the expected cycle as tax ditch managers have chosen to react to problems instead of planning for maintenance. Both scenarios contribute to the current state of tax ditches. It is also important to note that while this report provides a general characterization of the systems there are tax ditch organizations that are doing an excellent job managing their infrastructure.

There are a variety of causes that have led to the current state. This document looks at them in four major groups:

- Funding
- Operational
- Environmental
- Administrative

The Drainage Program is recommending a task force be established to investigate these causes and propose solutions that would benefit the diverse range of stakeholders. Stakeholders that should be represented on the task force include:

- Members of each caucus of the General Assembly
- Delaware's County Conservation Districts
- Tax Ditch Officers
- Tax Ditch Commissioners

- Delaware Farm Beau
- Land Development Community
- Homeowner Associations
- Banking Commissioner
- State Auditor's Office
- Insurance Commissioner

## **Cause A: Insufficient Funds for Maintenance**

Tax ditch organizations across the State of Delaware do not have adequate funds to perform necessary maintenance activities. The lack of funds available to address routine needs is only compounded when issues arise that require significant funding and effort to address. Bank erosion and control of invasive species are two examples of high cost and/or high effort issues tax ditch organizations are facing. The urbanization of tax ditch watersheds and climate change are some of the drivers that cause these issues.

The Tax Ditch Law created a model where the construction cost estimate was established as the assessment base of the tax ditch. That base was then distributed to all of the properties in the watershed based on the benefit each property received. Annually, the tax ditch sets the warrant rate which is the percentage of the assessment base that will be collected each year. This warrant rate concept was established to adjust the taxes collected annually as funds are needed and as a method to adjust for inflation. Since maintenance costs are independent of the year a tax ditch is formed, older ditches require a higher warrant rate than newer ditches.

#### **Potential Solutions**

1. Update tax ditch assessment bases, across all tax ditches, using current year dollar values and benefit received based on current land use.

Assessment bases assigned are based on relative benefit received by each specific property in the tax ditch watershed. The relative benefit calculations utilized today are the same and cannot be changed from the methodology used at formation for consistency and equitable distribution. However, when properties are subdivided and landuse changes so does the expectations and relative benefit of the parcel in regards to the existence of the tax ditch system and/or maintenance. There are concerns from tax ditch officers that the relative benefits established at formation do not accurately reflect the relative benefits of the parcels after landuse changes occur.

An update of tax ditch assessment bases, across all tax ditches, in the same manner would allow the relative benefits received and expectations of today's landuses/properties within tax ditch watersheds to be more accurately depicted. Geographic Information Systems (GIS) data including landuse/landcover and impervious area data that are currently available would assist this effort and allow for a consistent process. This would make explaining assessment bases and tax ditch warrants more understandable to the general public and future officers.

#### 2. Tax Ditch officers should levy effective tax ditch warrants

A discussion of the tax ditch warrant rate is to be conducted at each tax ditch annual meeting. Adjusting the tax ditch warrant levied is a means to provide adequate funds for proposed maintenance plans and is the only way for tax ditch organizations to account for inflation. Levying appropriate and effective tax ditch warrants is essential to perform necessary maintenance activities. There is a process established by the Tax Ditch Law. However, convincing tax ditch managers that are often among the largest tax payers to raise their taxes has proven to be difficult.

#### 3. Establish minimum ditch tax warrants to levy

While it is an expectation of tax ditch organizations to levy effective warrants, it does not always occur. Tax ditch officers and taxables are often reluctant to propose and approve increasing warrant rates due to increased taxation on themselves. Changing the law to establish a minimum warrant rate or collection amount would establish a floor that would force organizations to collect enough funds to complete at least the minimum necessary maintenance annually. Although difficult because of the varying dollar basis for assessments a minimum warrant rate could be established based on the fact that 90% of tax ditches were formed prior to 1985.

# 4. Increase State and County funds available for Cost Share Programs to reestablish the historical bench mark ratio of 50% Tax Ditch: 25% State: 25% County.

State and County matching funds were first passed by the General Assembly and signed by the governor in 1947. This law stated "neither State nor County funds can be expended until the landowners benefiting from such drainage raise an amount equal to both the State and County appropriations. In other words for every dollar raised by landowners, fifty cents (50¢) can be expended from State funds and fifty cents can be expended from County funds." This was passed and implemented prior to passing of the current Tax Ditch Law in 1951. Therefore, every tax ditch was established with an understanding that State and County funds would be available to assist with maintenance because it has long been recognized that tax ditches provide benefits that extend beyond the landowners in the watershed.

Tax ditch organizations across the State rely on cost share assistance in order to perform necessary maintenance activities. Most tax ditch organizations have not been successful in levying tax ditch warrants that would allow them to save and pay for routine maintenance activities without outside funding sources. The assistance cost share funds provide varies across tax ditch organizations and Counties. Some tax ditches in Kent and Sussex County rely on cost share to perform mowing, dipout, pipe crossings, etc. while others, like the tax ditches in New Castle County are required to collect sufficient funds to perform routine maintenance with cost share only being provided when major or infrequent maintenance activities are required.

#### 5. Develop additional options for tax ditch organizations to borrow money.

Tax Ditch organizations are able to borrow money. However, recently the DNREC Drainage Program has been working to assist a tax ditch organization in obtaining a loan they have requested and need in order to perform planned maintenance. This tax ditch organization has been trying for months to obtain the loan with more issues arising due to new bank requirements and fees that seem excessive for a \$15,000 loan. When a tax ditch organization needs a loan in order to perform routine maintenance activities, they do not have the funds to spend on expensive bank fees and/or high interest rates (as recently quoted). Alternative options need to be developed including:

- Identify new commercial lending options than those that currently exist.
- Establish eligibility guidelines for government lending options including the State Revolving Loan Fund and Rural Development Loan Programs
- Establish a Revolving loan for use by the Conservation Districts/Tax Ditches similar to the Heavy Equipment Revolving Loan fund already established.

# 6. Create an achievable method for tax ditches to combine/merge to allow organizations to take advantage of economies of scale.

Small tax ditch organizations have a real challenge maintaining their infrastructure because of modern costs associated with maintenance. Establishing a method including referendum requirements that would allow two organizations to merge would provide a tool for addressing this issue if the tax ditch officers and landowners so desire.

# 7. Create an achievable method for tax ditches to hand over their responsibilities to another agency (i.e. Municipality, Conservation District, DNREC)

The tax ditch law currently provides tax ditch organizations the ability to turn the operation of the tax ditch over to DNREC. However, the requirements set by the law make this nearly impossible to happen. When tax ditches become inactive it is generally because of lack of interest. Obtaining written consent of half the landowners, owning at least half of the land in a watershed is not achievable. Therefore, the law should be changed to an acceptable but obtainable level. One option would be at least 50% of the votes cast similar to that of a municipal or school referendum. Additionally, the law only provides DNREC as an option for taking over the responsibility of the tax ditch organizations (if desired and approved). This should be expanded to include the Conservation Districts and Municipalities especially since many Towns have grown to the point that entire tax ditch systems are within municipal boundaries.

# **Cause B: Operational Issues**

The current maintenance needs on the majority of tax ditch systems across the State of Delaware are significant. Tax Ditch organizations are managed largely by three volunteer

officers; two managers, one is designated chairman, and a secretary-treasurer. Some larger organizations do have additional manager positions. Some tax ditches also pay their officers a small stipend. However, these volunteers struggle to meet the more sophisticated needs of the current era. The lack of annual inspections, maintenance planning, and record keeping regarding the condition of the tax ditch channels, banks, and associated rights-of-ways as a whole system may have resulted in maintenance decisions made and prioritized ineffectively.

#### **Potential Solutions**

#### 1. Perform Annual Inspections

#### a. Develop and provide inspection training to tax ditch managers and chairmen.

The only requirement for an individual to hold a tax ditch officer position is to own property located within the tax ditch watershed. Currently, there is no formal training provided to individuals who become a tax ditch officer. With little to no formal training on the responsibilities of their positions and/or needs of the tax ditch organizations, it is difficult for tax ditch officers to have a clear understanding of what they are supposed to do without the DNREC Drainage Program's direct assistance. A clearer understanding of responsibilities and needs of the tax ditch organizations would result in officers being more active and confident when making tax ditch maintenance and management decisions.

# b. Increase staffing at the DNREC Drainage Program and/or Conservation Districts to perform annual tax ditch inspections.

Currently, the DNREC Drainage Program staff is comprised of 6 individuals who assist the 234 tax ditch organizations as requested. Of our 6 staff members only 2 of them are field staff and even those 2 individuals have office responsibilities. The Drainage Program does not have the staff to complete tax ditch system inspections in a timely manner as they are requested now and this would only become more difficult if inspection requests were made to us by even more tax ditch organizations. The Conservation Districts each have a person responsible for working with tax ditch officers. However, the needs and therefore the responsibilities vary across the three counties. It should be noted that it is the responsibility of the Drainage Program to provide technical assistance. If each tax ditch requested assistance with inspections neither the Drainage Program nor the Conservation Partnership could meet that need at current staff levels.

#### c. Utilize drone technologies to increase effectiveness

The DNREC Drainage Program has been exploring the potential of utilizing drones to perform tax ditch inspections. Utilizing drones and their associated technologies may be a way to increase staff effectiveness and improve reporting and communicating existing conditions and maintenance needs for the tax ditch officers. Drones may allow the condition of inaccessible areas due to the lack of maintenance to be noted.

#### 2. Enhance Planning and/or Establish Tax Ditch Maintenance Plans

 Identify and communicate responsibilities associated with culvert installation and replacement when located within tax ditch channels to both the landowner and tax ditch officers.

Inconsistencies across tax ditch organizations with regard to the maintenance of culverts located within tax ditch channels has caused confusion amongst landowners, tax ditch officers, and even legislators. It is imperative to review and document concisely the responsibility and guidelines of culvert installation and maintenance for those located within tax ditch channels. Original formation documents of each tax ditch organization need to be reviewed and stipulations regarding culverts need to be communicated clearly to the tax ditch officers even when they change. In addition, this information must be communicated to the taxables when requesting a new crossing and or replacement of an existing crossing. Not all tax ditch officers reach out to the Drainage Program for guidance and consequently replacements are often handled on a case-by-case basis. This can be a problem if organizations are spending their limited funds on items that are not the tax ditch organizations responsibility. It may be necessary to change the Tax Ditch Law to establish a consistent standard for all tax ditch organizations. It is understood that the cost to replace these culvert can be a burden on the tax ditch and the landowner.

#### b. Develop and provide maintenance planning training to tax ditch officers.

As noted in 1a above, training is needed for tax ditch officers. Training officers on how to plan for maintenance will include understanding how to think about maintenance in 5 year intervals. Additionally, this type of training will assist in calculating an appropriate warrant rate to collect in order to perform the maintenance needs identified. It should also help to ensure tax ditch officers are holding their annual meetings at an appropriate time for their proposed warrant change to go into effect when needed.

# c. Update operation and maintenance plans for all tax ditch organizations and continue to update in 5 year intervals.

At formation each tax ditch organization had an operation and maintenance plan (O & M Plan) developed. However, at this time these plans are outdated. This proposed solution will require all 234 tax ditch organizations to have their O & M Plan reviewed and updated based on the conditions of the tax ditch systems now. It is our recommendation to review and update the newly re-established plans on a 5 year basis.

#### 3. Enhance and/or Establish Record Keeping Guidelines

#### a. Develop a Tax Ditch Maintenance Database/GIS System

Development of a Geographic Information System (GIS) database to summarize tax ditch maintenance performed, conditions of the tax ditch channels inspected, tax ditch drainage concerns reported, and tax ditch channel and culvert stipulations would provide data in a visual

and reportable manner to pass along to new and existing tax ditch officers. This information would be useful for tax ditch officers as they work to prioritize maintenance needs and adjust warrant collection.

#### b. Require reporting and/or establish guidelines for Meeting Minutes

Tax Ditch organizations are ran by volunteers with a one year term. While more often than not a tax ditch officer serves multiple terms, when the records change hands so do the record keeping techniques. There is no defined standard for record keeping except for financial reporting and having a formal audit completed. Even though required these guidelines are not always followed.

In addition, the development of the tax ditch maintenance database would require a formalized procedure for reporting these items by tax ditch officers, DNREC Drainage Program staff, and/or tax ditch hired contractors to have work completed and existing conditions accounted.

#### 4. Removal of Tax Ditch Rights-of-Way Obstructions

a. Work with Deputy Attorney General (DAG) to define next steps if landowner is unwilling to remove obstructions.

Tax Ditches are unsure of the next step if a landowner does not willingly remove the obstructions. As neighbors they often are nervous about consequences. Working with the DAG's office to establish a protocol would provide a systematic process that would reduce uncertainty.

#### b. Define role of DNREC in removal of obstructions including enforcement options.

The current law does not provide DNREC a role in this process. We currently provide assistance to the tax ditch organization but there is no authority for DNREC to step in if the landowner is unwilling to remove the obstructions. Additionally, the Drainage Program believes there is a potential role for DNREC's enforcement arm to assist with compliance.

# c. Work to include tax ditch rights-of-way requirements in building permits and other regulatory processes (ex. wells and septics)

The Drainage Program has had mixed results working with building permit offices and other regulated agencies in incorporating tax ditch rights-of-way into their processes. This may require language in State statute that creates consequences for building permits that are issued for construction within tax ditch rights-of-ways.

# **Cause C: Changing Environment**

#### 1. Changes in Landuse

A quick review of historic aerial photography will show that the biggest change to tax ditch watersheds since the 1960's is the increase in development. Although most noticeable in

southeast Sussex County all tax ditches have seen an increase in impervious area. This is not all from commercial and residential development. Increases in the size and number of poultry houses and the conversion of dirt roads are two additional examples of major changes in the still rural areas of the State. Increased runoff from changes in land use were not regulated until 1991 well after the construction of the most of the tax ditches. Even after regulations were put in place the increased volume has not been managed. These hydrologic changes have increased the importance of the tax ditch systems while also causing increased bank instability. Additionally, since tax ditches were designed for agricultural drainage they do not necessarily meet the expectations of residential property owners unfamiliar with the system.

a. Incorporate the downstream impacts into stormwater review and approval provided by the DNREC Stormwater Program and its delegated agencies.

The Tax Ditch Program is not a regulatory program and does not have jurisdiction in this area. However, section 5.3.3.1 of the Delaware Sediment and Stormwater regulations limits the increase of downstream water surface elevations to 0.05 feet. However, the Drainage Program is unsure if a downstream analysis is being performed for all projects. This solution would require a downstream analysis for all projects in tax ditch watersheds.

b. Work with land use agencies to incorporate tax ditch considerations into the planning and zoning processes.

County and municipal planning agencies have many requirements for when land is being developed. These agencies need to take tax ditch rights-of-way into consideration to conflicts with lot lines and buffers for example.

#### 2. Climate Change

Changes in climate, whether it is an increase in frequency and intensity of storms and/or sea level rise, will increase the demands and stress on the tax ditch system. The tax ditch system is the backbone of drainage in many parts of the State and if not maintained the impacts of climate change will be magnified. Although, there are no proposed solutions to climate in this context the Drainage Program, Conservation Districts, and tax ditch organizations will be required to solve problems created by these stresses.

#### 3. Invasive Species

Phragmites has long been an issue in many tax ditches. However, many organizations are dealing with additional invasive threats that in some cases restrict access (Japanese Knotweed) and in other cases restrict flow (Parrott Feather). All invasive species require a lot of effort to get under control.

#### a. Annual Inspections

Early recognition and treatment is the best and most cost effective way to manage invasive species. With training and documentation tax ditch officers could be trained to identify common invasive species during annual inspections. This would allow issues to be identified early before they become a significant problem.

#### b. Annual Contracts for vegetation control

An alternative to annual inspections would be annual maintenance contracts where contractors would be hired to find and treat invasive species.

## **Cause D: Administrative**

The Tax Ditch Law requires the Division of Watershed Stewardship provide administrative assistance to the tax ditch organizations. This is becoming an increasingly challenging activity as officers are becoming difficult to retain and recruit, the banking industry enacts tighter privacy controls, and public awareness of tax ditches decrease. The outline below provides some of our Program's ideas for tackling these issues.

#### 1. Officer Recruitment

- a. Standardized Transition Plan
- b. Secession Planning
- c. Better Informed Public (See #3 Below)

#### 2. Banking

- a. Work with financial institutions to understand new banking regulations and requirements
- b. Update Tax Ditch Law to require compliance and reporting
- c. Give DNREC the legal authority to act as an agent on behalf of the tax ditch for banking issues
- d. Develop Option where tax ditch organizations can hand over financial management to another entity like the Conservation Districts

#### 3. Education of general public and taxable on Tax Ditch System

- a. Improve Tax Ditch Web Page
- b. Social Media Presence
- c. Outreach materials
- d. Change requirements for annual meeting advertisements
- e. Email list serve
- f. Outreach Events
  - i. HOA meetings
  - ii. Community Events

#### INTERAGENCY PROJECT AGREEMENT

# TWENTY-FIRST CENTURY FUND RESOURCE CONSERVATION AND DEVELOPMENT PROJECT IMPLEMENTATION (FY20) SUSSEX COUNTY, DELAWARE

THIS AGREEMENT, made this day of control, 2019, BY AND BETWEEN, the Department of Natural Resources and Environmental Control, hereinafter called "Department" and the Sussex Conservation District hereinafter called "SCD".

#### WITNESSETH THAT:

WHEREAS; Senate Bill 180 of the 150<sup>th</sup> General Assembly, appropriated funds for Twenty-First Century Fund - Resource Conservation and Development (RC&D) Projects dedicated to improve the health of communities by addressing a variety of Statewide watershed and drainage issues consistent with the policies of the Cabinet Committee on State Planning Issues; and

WHEREAS, said appropriations provide funds for projects located in Sussex County; and

WHEREAS, House Bill 410, Section 76 of the 146<sup>th</sup> General Assembly requires that monies appropriated from the Twenty-First Century Fund – RC&D Project list have a funding match of at least 10%; and

WHEREAS, RC&D Projects have been approved by the Joint Legislative Committee on the Capital Improvements Program;

NOW, therefore, in consideration of the premises and of the several promises to be faithfully performed by the parties hereto as set forth, the Department and SCD do hereby agree as follows:

- A. It is agreed that the SCD will provide management and construction of projects located in Sussex County using SCD or contractor resources for any RC&D Project approved by the Joint Committee for Capital Improvement at an estimated total cost of \$444,444.
- B. It is agreed that this project will utilize RC&D Funds and non-RC&D Funds for the required match as shown in the table below:

Project Name	RC&D Funds	Funds provided by the SCD	Description
Approved Sussex County – RC&D Projects	FY2020 \$400,000	\$44,444	Project Management and Construction

#### C. The Department will:

- 1. Provide \$400,000 toward the cost of the work described in "A" and "B".
- 2. Pay for the cost of said work up to \$400,000, directly to the SCD on a monthly basis upon receipt of a statement for works performed or supplies purchased.
- 3. Obtain and provide the necessary land rights needed for the construction of said projects.
- 4. Provide administration and technical assistance as required.

#### D. SCD will:

- 1. Obtain and provide \$44,444 as 10% project match toward the cost of construction of the projects described in item "A".
- 2. Be responsible for obtaining any and all applicable permits.
- 3. Be responsible for complying with all relevant State and Federal laws.
- 4. When deemed necessary, unless otherwise agreed upon, utilize Department approved Professional Service Agreement for Watershed Engineering Service contractor(s).
- 5. Be responsible for undertaking, implementing and supervising all aspects related to RC&D projects including but not limited to project planning, design, bid preparation and award, construction and inspection.
- 6. Arrange for final inspection of and certification that the projects meet the construction plans and specifications.
- 7. Keep accurate records of the expenditure of these funds and notify the Department in writing when the project is completed, such notification shall include the above stated inspections and certification documents.
- 8. Assure that these funds will only be on projects that have been approved by the Joint Committee for Capital Improvement.
- 9. Supply to the Department documentation of the required 10% match.

Sussex County RC&D Implementation Project Agreement Page 3

- E. It is mutually agreed that:
  - 1. Financial commitments are contingent upon the continuing availability of appropriations by the Legislature and County Government from which payment may be made. The Department or SCD shall not be obligated if the Legislature or the County fails to appropriate funds.
  - 2. The Department, nor SCD, shall assume any responsibilities for future maintenance.
  - 3. All parties hereby acknowledge that this Agreement has financial limits that cannot be exceeded except by signed Amendment of this Agreement.

SUSSEX CONSERVATION DISTRICT	DEPARTMENT OF NATURAL RESOURCES AND
Darow. Baro	ENVIRONMENTAL CONTROL
District Coordinator	Secretary, Shawn M. Garvin
Date: 9/3/19	_ Date: Degenoy 6, 2019

JLOSC Responses Prepared by DNREC's Division of Watershed Stewardship, Conservation Programs Section, Drainage Program March 6, 2020

## Clarification on the RC&D Project Timeline

#### Kent and Sussex Counties

#### Process for Addition to the RC&D List

- 1. Drainage Program receives initial drainage concern/issue from resident/landowner/legislator.
- 2. Drainage Program field technician is assigned to evaluate reported drainage concern.
- 3. If the Drainage concern affects more than one landowner and requires coordination with multiple landowners/properties, the project is considered for the RC&D List. If the issue only affects one landowner and/or a single property, the Drainage Program staff will provide technical assistance for resolution or recommend hiring a consultant/contractor and/or contacting a partner agency for further assistance.
- 4. Drainage Program staff performs field visits and develops preliminary project scope, potential solution, and cost estimate for the RC&D list.
- 5. The Drainage Program maintains a list of proposed projects which are added to the RC&D Annual Report and presented to the Bond Bill Committee for approval.

#### Once Added to the RC&D List

6. Project is ranked on the RC&D List based on project priority. Criteria used to prioritize projects include the following: public safety, frequency of flooding, project status, property damage, ability to leverage other funds, and project age. The project remains on the list until it receives a high ranking and funding is secured.

#### Scoping Phase

7. Drainage Program and/or Conservation District obtain landowner and then complete field survey work of the project area.

#### Engineering/Design Phase

8. Engineering is conducted by the Drainage Program, Conservation Districts, and/or subcontractors. This stage requires time and coordination with other state agencies for review.

#### Permitting Phase

9. Permitting is conducted by Drainage Program, Conservation Districts, and/or subcontractors. Permit applications can be submitted when the project is 90% engineered.

#### Funding Phase

- Cost estimates are secured based on design plans through Bid Process required (if applicable).
- 11. Requests for Community Transportation Funds (CTF) are made and commitments are received.
- 12. Drainage Program or Conservation Districts secure Landowner Agreements for Construction. If landowner agreements are not secured, the project does NOT move forward.
- 13. Bid Package completed (if applicable) or Vendor Selected.
- 14. Purchase Order secured by Drainage Program.

#### Construction Phase

- 15. Lead Agency coordinates construction with contractor, considering any requirements/stipulations received in any permits.
- 16. Project under construction and monitored during construction.
- 17. Final inspection required at the end of construction and any contractor issues are resolved.

#### Completion

18. Project monitored one year from successful final inspection and closed out.

#### New Castle County

#### Process for Addition to the RC&D List and Funding Phase

- 1. Project estimate is requested (via email or letter) by a State Senator or Representative.
- 2. NCCD visits project location, meets with landowner(s) to understand issue of concern.
- 3. Following this meeting(s) staff prepares a preliminary estimate letter which is reviewed by NCCD PE and District Coordinator.
- 4. Estimate letter is sent to Legislative member(s), their aide(s) & DelDOT CTF program representative. Project will be added to annual "New Project List" submitted to Bond Bill Committee.
- 5. Member(s) and NCCD agree on funding split between CTF and RC&D Funds; the agreed funding split is shared with DelDOT Community Transportation Fund (CTF) representative. Project must be listed on approved Resource Conservation & Development (RC&D) list of projects in order to be eligible for funding with CTF and/or RC&D funds.
- 6. Once 100% project funding is confirmed, DelDOT sends project agreement to NCCD.
- 7. NCCD returns project agreement signed by NCCD Board Chair back to DelDOT.
- 8. DelDOT sends NCCD the "Notice to Proceed" on the CTF share of the project funds.
- 9. With the Notice to Proceed, project is placed in NCCD's "active project" list. NCCD is required to have DelDOT's Notice to Proceed before NCCD can start any work on the project.

#### Engineering/Design Phase

- 10. NCCD Survey crew collects the field surveying information (slope and topography, landscape features, structures, etc.) to begin the layout and design of a project;
- 11. NCCD project P.E. prepares design/engineering plans which will be shared w/ affected property owners for review and approval. Plans can be modified based on landowner comments;
- 12. NCCD requires <u>signed</u> project construction easement agreements by <u>all</u> parties impacted by the project once there is agreement on the project design plans;
- 13. Construction plans & bid specifications will be prepared by NCCD based on the final design.

#### Vendor Selection Phase

- 14. Depending on estimated cost, and per State bid laws, project may be publicly advertised (twice over a 2-week period) by NCCD a mandatory pre-bid meeting for contractors may be scheduled depending on the complexity of the project;
- 15. All project bids are received and opened by NCCD bids submissions (bid bonds, etc.) are reviewed, and low bidder confirmed. Low bidder required to provide proof of insurance coverage(s) so that project can be awarded & contract between NCCD, and contractor can be signed:
- 16. NCCD issues Notice to Proceed to contractor/low bidder.

#### Construction Phase

- 17. Project starts subject to contractor schedule and weather.
- 18. NCCD will typically oversee construction and inspect project.
- 19. When project construction is completed by the contractor, NCCD PE will inspect project this is NCCD's "Semi-Final Inspection"; NCCD may require contractor to address any project construction related issues.
- 20. NCCD's Final Project inspection is completed approximately 6-months after "Semi-Final Inspection". NCCD may require contractor to return to address any project construction related issues. If project is deemed complete, NCCD notifies contractor in writing and releases final payment (5% of bid price) to contractor.
- 21. NCCD's role and responsibility for project concludes.

### **Prioritization Process**

#### **RC&D Projects**

The ranking and prioritization process for requests through RC&D are handled by DNREC's Drainage Program and the Conservation Districts. The following factors are considered for prioritization:

- Public Safety
- Frequency of Flooding
- Project Status (level of effort or legislator influence)
- Property Damage(s)
- Ability to leverage other funds
- Age of Project (length of time on the list)

Once all factors are considered, projects are ranked by New Castle Conservation District in New Castle County and coordinated with DNREC staff and the Conservation Districts in Kent and Sussex County.

#### Tax Ditch Projects

The Drainage Program addresses Tax Ditch related requests on a first come, first served basis. Initial inquiries typically require a site visit to provide a landowner or tax ditch officer technical assistance. However, the following factors may also contribute to the ranking of project requests:

- Date of request
- Amount of information provided in the request
- Timeline for project completion provided by the requestor
- Availability of funds for project completion

At times drainage concerns from legislators may be given higher priority in order to provide a timely response.

## **Drainage Concern Submission Process**

Drainage concerns are submitted in two ways: (1) a constituent call that is processed through a drainage and stormwater assistance hotline phone number or email, or (2) an inquiry from a legislator. New

Castle County concerns are handled by the New Castle Conservation District. Kent and Sussex County inquiries are handled by the Drainage Program Manager or the DNREC Director of Community Affairs. Once information is gathered, staff conduct a site visit to determine potential causes of poor drainage. The Drainage Program or Conservation Districts work with the landowner to determine if the problem can be resolved by the landowner. If the problem cannot be resolved and all causes are explored –i.e. outside of DelDOT right of way, outside of tax ditch organization watershed and/or tax ditch responsibility, outside of HOA responsibilities, outside of local municipality responsibilities - then DNREC can request to have the project added to the RC&D list.

## Tax Ditches by County

A total of 234 tax ditches exist within the State of Delaware, making up over 2,000 linear miles of ditches throughout the state (see map). Of those tax ditches, 78 are in Kent County, 26 in New Castle County, and 137 in Sussex County, as shown in the table below. However, seven (7) tax ditches have watershed boundaries in two counties – Kent and Sussex.

County	Number of Tax Ditches	
New Castle	26	
Kent	78*	
Sussex	137*	

<sup>\*</sup>Seven ditches reside within two counties – Kent and Sussex.

Citizens can use a web-based mapping application on their computer or smartphone. The map can be searched by street address or tax map number or tax ditch name to determine whether a property is located within a tax ditch watershed. The application illustrates approximate locations of tax ditch channels and their associated rights-of-ways for maintenance access and activities which may affect their property. https://de.gov/taxditchmap.



It should be noted that in addition to the 2,000+ miles of tax ditches throughout Delaware, there are also privately managed ditches that were created to address drainage problems. The privately managed ditches throughout the state are not a part of a Tax Ditch Association and are therefore not listed as a tax ditch. Despite this difference, the Drainage Program receives drainage concerns for both tax ditches and privately managed ditches.

## Leveraging federal dollars to support tax ditch or RC&D projects

The Drainage Program and Conservation Districts strive to leverage state funds with federal funds when possible; however, there is no specific federal program that provides annual funding for these types of projects. Recently, when both water quantity and quality can be improved, a small portion of federal funding sources have been used for drainage projects. The Nanticoke Tax Ditch project, completed in 2015, is an example of federal funds combined with state dollars to restore over 4,300 linear feet of a tax ditch. Projects, like this, are applicable for federal funding due to the water quality and wildlife

habitat benefits that are being provided, in addition to addressing the drainage problems. The amount of federal grant funding fluctuates yearly and is at the discretion of the grant manager.

More recently, the Drainage Program and Conservation Districts received a \$1.0 million federal award from USDA-NRCS for watershed planning funds in the Upper Nanticoke Watershed. The award will lead to watershed improvement projects that could be placed on the RC&D list. The award aligns Delaware nicely to pursue the next phase and request approximately \$15.0 million for design, permitting and construction. Of this amount, we expect the State of Delaware's portion to be \$3-4 million within 3-5 years.

To assist with identifying alternative funding sources, the Drainage Program hired an Environmental Scientist. The Scientist's primary job duty is to obtain permits for RC&D projects; however, a secondary duty is to acquire grant funding. Additionally, the Drainage Program, Conservation Programs Section, and Conservation District staff have increased participation in meetings where grant opportunities are discussed; staff look for additional opportunities where applicable.

However, routine maintenance projects like tax ditch dip outs, ditch crossing installations, etc. are not eligible for federal funding and are typically funded through 3921 State funds.

#### Additional comments

• The last paragraph on page 14 states the districts were established in 1953, which is incorrect. The act enabling the Districts to form was passed in 1943, but NCCD was formed in 1944, KCD and SCD were formed in 1943.