

Approval of FY2022 Project Recommendations for Funding from the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund

§ 10.1-611.1. Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund established; Department to manage; Board to expend moneys; regulations.

A. There is hereby created in the state treasury a special nonreverting fund to be known as the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund, hereafter referred to as "the Fund." The Fund shall be comprised of moneys appropriated to the Fund by the General Assembly and any other moneys designated for deposit to the Fund from any source, public or private. The Fund shall be established on the books of the Comptroller and the moneys shall be paid into the state treasury and credited to the Fund. Interest earned on moneys in the Fund shall remain in the Fund and be credited to it. Any moneys remaining in the Fund, including interest thereon, at the end of each fiscal year shall not revert to the general fund but shall remain in the Fund. Moneys in the Fund shall be used solely for (i) the maintenance and repair of any dams owned by soil and water conservation districts and (ii) the rehabilitation and major repair of Class I and Class II dams owned by soil and water conservation districts, in order to bring such dams into compliance with regulations promulgated pursuant to Article 2 (§10.1-604 et seq.) of Chapter 6 of this title. Expenditures from the Fund made under clause (ii) of this subsection may include, but are not limited to, the following repairs to the infrastructure of a dam: increasing the height of a dam, modifying the spillway, and reducing wave erosion of a dam's inside face. Expenditures and disbursements from the Fund shall be made by the State Treasurer on warrants issued by the Comptroller upon written request signed by the Director of the Department of Conservation and Recreation.

B. The Fund shall be administered and managed by the Department of Conservation and Recreation, subject to the right of the Board, following consultation with the Department of Conservation and Recreation, to direct the distribution of moneys in the Fund to particular soil and water conservation districts.

C. The Board is authorized to promulgate regulations for the proper administration of the Fund. Such regulations may include, but are not limited to, the type and amount of financial assistance, the terms and conditions of the assistance, and project eligibility criteria.

Chapter 552 of the 2021 Special Session 1 Acts of Assembly; Item 373

A.1. Out of the amounts appropriated for Financial Assistance to Virginia Soil and Water Conservation Districts, \$12,141,091 the first year and \$12,141,091 the second year from the general fund shall be provided to soil and water conservation districts for administrative and operational support as well as base funding for technical assistance. These funds shall be distributed upon approval by the Virginia Soil and Water Conservation Board to the districts in accordance with the Board's established financial allocation policy. These amounts shall be in addition to any other funding provided to the districts for technical assistance pursuant to subsection B of this Item for appropriations in excess of \$35,000,000. Of this amount, \$6,209,091 the first year and \$6,209,091 the second year from the general fund shall be distributed to the districts for core administrative and operational expenses (personnel, training, travel, rent, utilities, office support, and equipment) based on identified budget projections and in accordance with the Board's financial allocation policy; \$4,550,000 the first year and \$4,550,000 the second year for base technical assistance support; \$312,000 the first year and \$312,000 the second year from the general fund shall be distributed at a rate of \$3,000 per dam for

maintenance; \$500,000 the first year and \$500,000 the second year from the general fund for small dam repairs of known or suspected deficiencies; \$400,000 the first year and \$400,000 the second year from the general fund for the purchase and installation of remote monitoring equipment for District-owned high and significant hazard dams; and \$170,000 the first year and \$170,000 the second year to the department to provide district support in accordance with Board policy, including, but not limited to, services related to auditing, bonding, contracts, and training. The amount appropriated for small dam repairs of known or suspected deficiencies and the purchase and installation of remote monitoring equipment is authorized for transfer to the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.

Recommended Motion:

The Virginia Soil and Water Conservation Board (Board) approves funding for seven (7) projects in the amount of \$1,115,350.50, as presented and recommended by the Department. For FY2022, the Board also approves allocating \$129,592.25 for contingency funds and \$50,000 for emergency project funds.

Additionally, the Board ratifies the decision of the Department, after consulting with a majority of Board members, to provide payment to Culpeper Soil and Water Conservation District for the following projects up to the amount of \$411,000:

- Beautiful Run #5 primary conduit slip lining construction project (ID#20-12) in the amount of \$168,500;
- Beautiful Run #6 primary conduit slip lining construction project (ID#20-13) in the amount of \$168,500; and
- Beautiful Run #2A additional funds for wave berm construction project (ID#22-01) in the amount of \$74,000.

Further, the Board directs the Department to reimburse Soil and Water Conservation Districts for all eligible costs associated with the installation of the remote monitoring equipment as provided for in Chapter 552 of the 2021 Special Session 1 Acts of Assembly. The funding for the reimbursements shall be provided from the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.

FY 2022 PROJECT FUNDING RECOMMENDATIONS
Soil and Water Conservation District
Dam Maintenance, Repair, and Rehabilitation Fund
(Fund 09254)

TO THE VIRGINIA SOIL AND WATER CONSERVATION BOARD

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Introduction:

The Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund (the Fund) is established by § 10.1-611.1 (see below). The Fund is administered and managed by the Department of Conservation and Recreation (DCR), subject to the approval of the Virginia Soil and Water Conservation Board for the distribution of moneys from the Fund to Soil and Water Conservation Districts (SWCD).

§ 10.1-611.1. Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund established; Department to manage; Board to expend moneys; regulations.

A. There is hereby created in the state treasury a special non-reverting fund to be known as the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund, hereafter referred to as "the Fund." The Fund shall be comprised of moneys appropriated to the Fund by the General Assembly and any other moneys designated for deposit to the Fund from any source, public or private. The Fund shall be established on the books of the Comptroller and the moneys shall be paid into the state treasury and credited to the Fund. Interest earned on moneys in the Fund shall remain in the Fund and be credited to it. Any moneys remaining in the Fund, including interest thereon, at the end of each fiscal year shall not revert to the general fund but shall remain in the Fund. **Moneys in the Fund shall be used solely for (i) the maintenance and repair of any dams owned by soil and water conservation districts and (ii) the rehabilitation and major repair of Class I and Class II dams owned by soil and water conservation districts**, in order to bring such dams into compliance with regulations promulgated pursuant to Article 2 (§ 10.1-604 et seq.) of Chapter 6 of this title. Expenditures from the Fund made under clause (ii) of this subsection may include, but are not limited to, the following repairs to the infrastructure of a dam: increasing the height of a dam, modifying the spillway, and reducing wave erosion of a dam's inside face. Expenditures and disbursements from the Fund shall be made by the State Treasurer on warrants issued by the Comptroller upon written request signed by the Director of the Department of Conservation and Recreation.

B. The Fund shall be administered and managed by the Department of Conservation and Recreation, **subject to the right of the Board**, following consultation with the Department of Conservation and Recreation, to direct the distribution of moneys in the Fund to particular soil and water conservation districts.

C. The Board is authorized to promulgate regulations for the proper administration of the Fund. Such regulations may include, but are not limited to, the type and amount of financial assistance, the terms and conditions of the assistance, and project eligibility criteria.

In accordance with Chapter 854 of the 2019 Session Virginia Acts of Assembly:

A.1. Out of the amounts appropriated for Financial Assistance to Virginia Soil and Water Conservation Districts, \$7,191,091 the first year and \$7,591,091 the second year from the general fund shall be provided to soil and water conservation districts for administrative and operational support. These funds shall be distributed upon approval by the Virginia Soil and Water Conservation Board to the districts in accordance with the Board's established financial allocation policy. These amounts shall be in addition to any other funding provided to the districts for technical assistance pursuant to subsections B. and D. of this Item. Of this amount, \$6,209,091 the first year and \$6,209,091 the second year from the general fund shall be distributed to the districts for core administrative and operational expenses (personnel, training, travel, rent, utilities, office support, and equipment) based on identified budget projections and in accordance with the Board's financial allocation policy; \$312,000 the first year and \$312,000 the second year from the general fund shall be distributed at a rate of \$3,000 per dam for maintenance; **\$500,000 the first year and \$500,000 the**

second year from the general fund for small dam repairs of known or suspected deficiencies; \$400,000 the second year from the general fund for the purchase and installation of remote monitoring equipment for District-owned high and significant hazard dams; and \$170,000 the first year and \$170,000 the second year to the department to provide district support in accordance with Board policy, including, but not limited to, services related to auditing, bonding, contracts, and training. The amount appropriated for small dam repairs of known or suspected deficiencies and the purchase and installation of remote monitoring equipment is authorized for transfer to the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.

Additionally, in accordance with Chapter 56 of the 2020 Special Session 1 Virginia Acts of Assembly and Chapter 552 of the 2021 Special Session 1 Virginia Acts of Assembly:

A.1. Out of the amounts appropriated for Financial Assistance to Virginia Soil and Water Conservation Districts, \$12,141,091 the first year and \$12,141,091 the second year from the general fund shall be provided to soil and water conservation districts for administrative and operational support as well as base funding for technical assistance. These funds shall be distributed upon approval by the Virginia Soil and Water Conservation Board to the districts in accordance with the Board's established financial allocation policy. These amounts shall be in addition to any other funding provided to the districts for technical assistance pursuant to subsections B. and C. of this Item for appropriations in excess of \$35,000,000. Of this amount, \$6,209,091 the first year and \$6,209,091 the second year from the general fund shall be distributed to the districts for core administrative and operational expenses (personnel, training, travel, rent, utilities, office support, and equipment) based on identified budget projections and in accordance with the Board's financial allocation policy; \$4,550,000 the first year and \$4,550,000 the second year for base technical assistance support; \$312,000 the first year and \$312,000 the second year from the general fund shall be distributed at a rate of \$3,000 per dam for maintenance; **\$500,000 the first year and \$500,000 the second year from the general fund for small dam repairs of known or suspected deficiencies; \$400,000 the first year and \$400,000 the second year from the general fund for the purchase and installation of remote monitoring equipment for District-owned high and significant hazard dams; and \$170,000 the first year and \$170,000 the second year to the department to provide district support in accordance with Board policy, including, but not limited to, services related to auditing, bonding, contracts, and training. The amount appropriated for small dam repairs of known or suspected deficiencies and the purchase and installation of remote monitoring equipment is authorized for transfer to the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.**

In an effort to better allocate the funding and identify priority projects, DCR has developed a prioritization process for project requests. This process is detailed in Appendix I. The following report provides project funding recommendations for FY 2022. The report also includes a status update on the previous years' obligated funds.

FY 2022 Overview:

Soil and Water Conservation Districts (SWCDs) submitted to the District Dam Engineer requests for three (3) new projects in the amount of \$246,350.50 for consideration in FY 2022.

A total of eleven (11) projects in the amount of \$1,714,000 did not receive funding in FY 2021 and; therefore, were also considered for FY 2022 funding.

Additionally, funds have been allocated for the purchase and installation of remote monitoring equipment in the amount of \$400,000 in accordance with Chapter 56 of the 2020 Special Session 1 Virginia Acts of Assembly and Chapter 552 of the 2021 Special Session 1 Virginia Acts of Assembly. Funds in the amount of \$400,000 were previously allocated in accordance with Chapter 854 of the 2019 Session Virginia Acts of Assembly.

The fourteen (14) projects were prioritized using a point evaluation system and assigned a unique sequential ID#, the result of which are located in Appendix I. The projects were then evaluated based on the prioritization score, project scope and need, available funding and the SWCD's ability to complete the project if awarded funding. The evaluation and recommendation for each project is located in Appendix II.

FY 2022 Recommendations:

A total of seven (7) projects are recommended for FY 2022 funding in the amount of **\$1,115,350.50**. The project recommendations organized by SWCD for FY 2022 are as follows:

Culpeper SWCD (3 Projects - \$411,000)

- Beautiful Run #5 primary conduit slip lining construction project (ID#20-12) in the amount of \$168,500.
- Beautiful Run #6 primary conduit slip lining construction project (ID#20-13) in the amount of \$168,500.
- Beautiful Run #2A additional funds for wave berm construction project (ID#22-01) in the amount of \$74,000.

Hanover-Caroline SWCD (1 Project – \$117,050.50)

- South Anna River #52B wave berm construction project (ID22-02) in the amount of \$117,050.50.

Piedmont SWCD (1 Project – \$132,000)

- Bush River #7 storm damage and gate valve repair construction project (ID#21-11) in the amount of \$132,000.

Peter Francisco SWCD (1 Project – \$55,300)

- Willis River 2 access road crossing (ID#22-03) for engineering and construction in the amount of \$55,300

DCR Managed Project (1 Project – \$400,000)

- Remote monitoring equipment and installation project (ID#22-05) in the amount of \$400,000.

Project Contingency Funds:

Project contingency funds are used to address unexpected costs that could occur for an awarded project. For FY 2022, it is recommended that **\$129,592.25** be designated as contingency funds. This recommended amount is approximately 5.2% of current ongoing projects for which funds were obligated, but not yet paid or returned to the Fund in previous years, as well as FY 2022 project recommendations. Contingency funds for any one given project are limited to no more than 15% of the awarded funding amount.

Emergency Project Funds:

Emergency project funds are used to address conditions that may develop unexpectedly, which endanger the structural integrity of the dam and/or downstream life or property. Immediate action is required to protect the dam and/or downstream life or property. For FY 2022, it is recommended that **\$50,000** be designated as emergency funds. A balance of at least \$50,000 is desired to be maintained in this Fund each fiscal year for this purpose.

Reallocation of Funds:

Upon the final disbursement of project funds, any unexpended funds shall be returned to the Fund, shall be unobligated, and shall be available for subsequent project awards. The SWCD may request the unexpended funds to be reallocated to another SWCD project with a current Grant Agreement. The request for the reallocation of funds must be approved by the District Dam Engineer.

Remote Monitoring Project:

The 2020 General Assembly provided \$400,000 for the purchase and installation of remote monitoring equipment for SWCD-owned high and significant hazard dams. Additional funding was provided during both the 2020 Special Session and 2021 Special Session.

The District Dam Engineer, along with DCR procurement staff, will procure the needed remote monitoring equipment to be used at each dam. The District Dam Engineer will assist in the set-up and configuration of the system and training will be provided to SWCD staff on how to use and maintain the system.

Each District will be responsible for the installation of the remote monitoring equipment. Installation will include buried conduit with pull boxes, conduit in the permanent pool area, and a mounting pole on the crest of the dam. All installation costs will be reimbursed through the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.

Refer to Appendix III for additional information on this project.

FY 2021 Projects Summary:

A total of twelve (12) projects were allocated funds in FY 2021. Seven (7) of these projects are still in progress; four (4) projects have been completed; and one (1) project returned monies to the Fund.

Detailed information on the status of FY 2021 projects is located in Appendix IV.

FY 2020 Projects Summary:

A total of seventeen (17) projects were allocated funds in FY 2020. Five (5) of these projects are still in progress; eleven (11) projects have been completed; and one (1) project returned monies to the Fund.

Detailed information on the status of FY 2020 projects is located in Appendix V.

FY 2019 Projects Summary:

A total of twenty (21) projects were allocated funds in FY 2019. Six (6) of these projects are still in progress; fourteen (14) projects have been completed; and one (1) project returned monies to the Fund.

Detailed information on the status of FY 2019 projects is located in Appendix VI.

FY 2018 Projects Summary:

A total of twenty-five (25) projects were allocated funds in FY 2018. Seven (7) of these projects are still in progress; nine (9) projects have been completed; and nine (9) projects returned monies to the Fund.

Detailed information on the status of FY 2018 projects is located in Appendix VII.

FY 2017 Projects Summary:

A total of thirty-one (31) projects were allocated funds in FY 2017. Five (5) of these projects are still in progress; eighteen (18) projects have been completed; and eight (8) projects returned monies to the Fund.

Detailed information on the status of FY 2017 projects is located in Appendix VIII.

Account Summary:

The account information and proposed allocations for FY 2022 are as follows:

| | |
|----------------------------------|-----------------------|
| FY 2021 Ending Balance: | \$1,775,648.83 |
| FY 2022 Appropriations: | \$900,000.00 |
| FY 2022 Starting Balance: | \$2,675,648.83 |

**Includes accrued interest from FY2021*

| | |
|---------------------------------------|---------------------|
| FY 2017 Allocations: | \$498,938.00 |
| Payments from FY 2017 Allocations: | (\$263,067.00) |
| FY 2017 Allocations Returned to Fund: | (\$100,871.00) |
| FY 2017 Remaining Obligations: | \$135,000.00 |

| | |
|---------------------------------------|-------------------|
| FY 2018 Allocations: | \$553,973.00 |
| FY 2018 Reallocations: | \$3,000.00 |
| Payments from FY 2018 Allocations: | (\$261,997.20) |
| FY 2018 Allocations Returned to Fund: | (\$287,475.80) |
| FY 2018 Remaining Obligations: | \$7,500.00 |

| | |
|---------------------------------------|--------------------|
| FY 2019 Allocations: | \$523,377.00 |
| FY 2019 Reallocations: | \$235,405.00 |
| Contingency Funds: | \$2,510.00 |
| Payments from FY 2019 Allocations: | (\$672,073.44) |
| FY 2019 Allocations Returned to Fund: | (\$61,218.56) |
| FY 2019 Remaining Obligations: | \$28,000.00 |

| | |
|---------------------------------------|---------------------|
| FY 2020 Allocations: | \$865,250.00 |
| FY 2020 Reallocations: | \$33,043.52 |
| Payments from FY 2020 Allocations: | (\$587,704.14) |
| FY 2020 Allocations Returned to Fund: | (\$26,645.32) |
| FY 2020 Remaining Obligations: | \$283,944.06 |

| | |
|---------------------------------------|---------------------|
| FY 2021 Allocations: | \$1,043,675.00 |
| FY 2021 Reallocations: | \$44,399.00 |
| Payments from FY 2021 Allocations: | (\$381,095.10) |
| FY 2021 Allocations Returned to Fund: | (\$160,376.16) |
| FY 2021 Remaining Obligations: | \$546,602.74 |

| | |
|---|-------------------------|
| FY 2022 Starting Balance: | \$2,675,648.83 |
| FY 2022 Contingency Funds: | (\$129,592.25) |
| FY 2022 Emergency Funds: | (\$50,000.00) |
| Pending Project Disbursements: | (\$379,659.28) |
| FY 2021 Remaining Obligations: | (\$546,602.74) |
| FY 2020 Remaining Obligations: | (\$283,944.06) |
| FY 2019 Remaining Obligations: | (\$28,000.00) |
| FY 2018 Remaining Obligations: | (\$7,500.00) |
| <u>FY 2017 Remaining Obligations:</u> | <u>(\$135,000.00)</u> |
| FY 2020 Project Allocations: | \$1,115,350.50 |
| | |
| FY 2021 Unfunded Request: | \$1,714,000.00 |
| FY 2022 New Requests: | \$246,350.50 |
| <u>FY 2022 Remote Monitoring Funds:</u> | <u>\$400,000.00</u> |
| FY 2022 Total Project Requests: | \$2,360,350.50 |
| | |
| FY 2022 Total Project Requests: | \$2,360,350.50 |
| <u>FY 2022 Project Recommendations:</u> | <u>(\$1,115,350.50)</u> |
| FY 2022 Unfunded Project Requests: | \$1,245,000.00 |
| | |
| FY 2022 Project Allocations: | \$1,115,350.50 |
| <u>FY 2022 Project Recommendations:</u> | <u>(\$1,115,350.50)</u> |
| FY 2022 Unobligated Funds: | \$0.00 |

APPENDIX I
FY 2022
PROJECT PRIORITIZATION

Introduction:

Each project was prioritized using a scoring system and assigned a numerical final score. The scoring system considers the hazard class of the dam, the project type, specific project features, and project need in determine the final score.

The projects are sorted based on the final score and then assigned a project tracking ID number. Refer to the Project Prioritization Table for the results of this process.

Table 1 – FY 2022 Project Prioritization

| ID | SWCD | Inv# | Hazard Class | Dam Name | Project Description | HCP | PTP | AP | Base Score | NEM | Final Score |
|-------|------------------|--------|--------------|----------------------|--|-----|-----|----|------------|-----|-------------|
| 22-04 | DCR | - | - | - | Remote Monitoring Project | - | - | - | - | - | - |
| 20-12 | Culpeper | 113004 | Low | Beautiful Run #5 | Design and Construction of Primary Conduit Slip Lining | 2 | 40 | 5 | 47 | 2.0 | 94 |
| 20-13 | Culpeper | 113005 | Low | Beautiful Run #6 | Design and Construction of Primary Conduit Slip Lining | 2 | 40 | 5 | 47 | 2.0 | 94 |
| 21-11 | Piedmont | 147036 | High | Bush River 7 | Storm Damage Repair and Gate Valve Repair | 8 | 40 | 10 | 58 | 1.5 | 87 |
| 22-03 | Peter Francisco | 29019 | High | Willis River 2 | Access Road Crossing | 8 | 40 | 10 | 58 | 1.5 | 87 |
| 21-15 | Southside | 037003 | Low | Roanoke Creek 35A | Wave Berm and Storm Damage Repair Project | 2 | 40 | 10 | 52 | 1.5 | 78 |
| 22-02 | Hanover/Caroline | 85002 | Significant | South Anna 52B | Wave Berm Project | 4 | 40 | 15 | 59 | 1.0 | 59 |
| 21-09 | Piedmont | 147034 | High | Bush River 2 | Wave Berm; Auxiliary Spillway Storm Damage Repair; Gate Valve Repair Project | 8 | 40 | 10 | 58 | 1.0 | 58 |
| 21-14 | Southside | 037008 | High | Roanoke Creek 62 | Wave Berm and Access Road Relocation Project | 8 | 40 | 10 | 58 | 1.0 | 58 |
| 22-01 | Culpeper | 113002 | High | Beautiful Run Dam 2A | Wave Berm Additional Funds Request | 8 | 40 | 10 | 58 | 1.0 | 58 |
| 21-05 | Piedmont | 147001 | Significant | Buffalo Creek 1 | Wave Berm, Graded Filter, Auxiliary Spillway Tile Drain Project | 4 | 40 | 10 | 54 | 1.0 | 54 |
| 21-06 | Piedmont | 147002 | Significant | Buffalo Creek 3 | Wave Berm Project | 4 | 40 | 10 | 54 | 1.0 | 54 |
| 21-10 | Piedmont | 147039 | Low | Bush River 5 | Wave Berm Project | 2 | 40 | 10 | 52 | 1.0 | 52 |
| 20-10 | Culpeper | 113009 | Low | Beautiful Run #1B | Wave Berm and Gate Valve | 2 | 40 | 5 | 47 | 1.0 | 47 |
| 21-07 | Piedmont | 147007 | Significant | Buffalo Creek 5 | Training Dike Improvements and Road Access Relocation | 4 | 20 | 10 | 34 | 1.0 | 34 |

Prioritization Score Legend:

HCP = Hazard Class Points

PTP = Project Type Points

AP= Additional Points

Base Score = HCP + PTP + AP

NEM = Need Evaluation Multiplier

Final Score = Base Score * NE

Prioritization Scoring System:

Hazard Class Point Values

- High = **8 points**
- Significant = **4 points**
- Low = **2 Points**
- Low/Special = **0 Points**

Project Type Point Values

A Type I project is a repair to the dam needed for safe operation and maintenance during normal operating conditions. Type I projects will receive **40 points**. Examples of Type I projects are wave berm reconstructions and graded filter drains.

A Type II project is a repair to the dam needed for safe operation during rare or extreme operating conditions. Type II projects will receive **20 points**. Examples of Type II projects are training dike repair, concrete riser work, trash rack replacement, gate valve replacement, and stilling basin reconstruction.

A Type III project is a repair to the dam which is not classified as Type I or Type II project, but is within the dam footprint. Type III projects will receive **10 points**. Examples of Type III projects are gate valve repair, buffer tree removal, debris removal, and vegetation management.

A Type IV project is defined as work conducted outside of the dam footprint and appurtenant structures, but is still related to the operation and maintenance of the dam. Type IV projects will receive **5 points**. An example of a Type IV project is access road improvements.

Project Additional Point Values

If a project contains more than one task for a single dam, the project will receive **5 points**. An example is a project request for buffer tree removal and stilling basin reconstruction at a single dam.

If a project contains a task that is also needed on additional dams in close proximity, then the project will receive **5 points**. An example is a gate valve replacement project on four dams.

If an Engineering Design has been prepared for the project, then the project will receive **10 points**.

Project Need Evaluation Multiplier

Certificate Need – x2 Multiplier

A certificate need project is defined as a condition that must be addressed in order to obtain a Regular Operation and Maintenance Certificate from the Division of Dam Safety.

Priority Need – x1.5 Multiplier

A priority need project is defined as a condition that if not addressed in a timely manner has the potential to endanger the structural integrity of the dam and/or downstream life or property.

Normal Need– x1 Multiplier

A normal need project is any project request not classified as urgent need or certificate need.

APPENDIX II
FY 2022
PROJECT EVALUATIONS AND RECOMMENDATIONS

Introduction:

A recommendation for project funding is based on an evaluation of the project. The evaluation takes into consideration the prioritization score, project scope and need, available funding, and the SWCD's ability to complete the project if awarded funding.

The following summary table contains project information, requested funding amounts, and recommend funding amounts for all fifteen (15) projects considered for funding in FY 2022. Project evaluations with recommendations are located after the summary table.

Table 2 – FY 2022 FUNDING REQUESTS AND RECOMMENDATIONS

| ID | District | Inv# | Hazard Class | Dam Name | Score | Project Description | Engineering | Construction | Total | Recommend Funding Amount |
|-------|------------------|--------|--------------|----------------------|-------|--|-------------|---------------|--------------------------------------|--------------------------|
| 22-04 | DCR | - | - | - | - | Remote Monitoring Project | \$ - | \$ 400,000.00 | \$ 400,000.00 | \$400,000.00 |
| 20-12 | Culpeper | 113004 | Low | Beautiful Run #5 | 94 | Design and Construction of Primary Conduit Slip Lining | \$ - | \$ 168,500.00 | \$ 168,500.00 | \$168,500.00 |
| 20-13 | Culpeper | 113005 | Low | Beautiful Run #6 | 94 | Design and Construction of Primary Conduit Slip Lining | \$ - | \$ 168,500.00 | \$ 168,500.00 | \$168,500.00 |
| 22-03 | Peter Francisco | 29019 | High | Willis River 2 | 87 | Access Road Crossing | \$ - | \$ 55,300.00 | \$ 55,300.00 | \$55,300.00 |
| 21-11 | Piedmont | 147036 | High | Bush River 7 | 87 | Storm Damage Repair and Gate Valve Repair | \$ - | \$ 132,000.00 | \$ 132,000.00 | \$132,000.00 |
| 21-15 | Southside | 03703 | Low | Roanoke Creek 35A | 78 | Wave Berm and Storm Damage Repair Project | \$ - | \$ 350,000.00 | \$ 350,000.00 | \$0.00 |
| 22-02 | Hanover/Caroline | 85002 | Significant | South Anna 52B | 59 | Wave Berm Project | \$ - | \$ 117,050.50 | \$ 117,050.50 | \$117,050.50 |
| 21-09 | Piedmont | 147034 | High | Bush River 2 | 58 | Wave Berm; Auxiliary Spillway Storm Damage Repair; Gate Valve Repair Project | \$ - | \$ 145,000.00 | \$ 145,000.00 | \$0.00 |
| 21-14 | Southside | 03708 | High | Roanoke Creek 62 | 58 | Wave Berm and Access Road Relocation Project | \$ - | \$ 185,000.00 | \$ 185,000.00 | \$0.00 |
| 22-01 | Culpeper | 113002 | High | Beautiful Run Dam 2A | 58 | Wave Berm Additional Funds Request | \$ - | \$ 74,000.00 | \$ 74,000.00 | \$74,000.00 |
| 21-05 | Piedmont | 147001 | Significant | Buffalo Creek 1 | 54 | Wave Berm, Graded Filter, Auxiliary Spillway Tile Drain Project | \$ - | \$ 165,000.00 | \$ 165,000.00 | \$0.00 |
| 21-06 | Piedmont | 147002 | Significant | Buffalo Creek 3 | 54 | Wave Berm Project | \$ - | \$ 93,000.00 | \$ 93,000.00 | \$0.00 |
| 21-10 | Piedmont | 147039 | Low | Bush River 5 | 52 | Wave Berm Project | \$ - | \$ 102,000.00 | \$ 102,000.00 | \$0.00 |
| 20-10 | Culpeper | 113009 | Low | Beautiful Run #1B | 47 | Wave Berm and Gate Valve | \$ - | \$ 118,000.00 | \$ 118,000.00 | \$0.00 |
| 21-07 | Piedmont | 147007 | Significant | Buffalo Creek 5 | 34 | Training Dike Improvements and Road Access Relocation | \$ - | \$ 87,000.00 | \$ 87,000.00 | \$0.00 |
| | | | | | | | | | Total Funding Recommendation: | \$1,115,350.50 |

EVALUATIONS AND RECOMMENDATIONS:

ID#20-10- INV#113009–Beautiful Run #1B – Low Hazard – Culpeper SWCD

Culpeper SWCD requested funding for wave berm construction costs. Funding for this project has been requested in the amount of \$117,810 for construction.

This project has previously received funding for the design under SDR19005. The engineering design for this project has been completed.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#20-12 - INV#113004–Beautiful Run #5 – Low Hazard – Culpeper SWCD

Culpeper SWCD requested funding for construction of a primary conduit slip lining project. The project scope and need are supported by the principal spillway inspection report prepared by Schnabel Engineering dated February 6, 2019. Funding for this project has been requested in the amount of \$168,500 for construction. Request amount was revised based on Contractor bid.

Funding for this project is recommended in the amount of **\$168,500** for construction.

ID#20-13 - INV#113005–Beautiful Run #6 – Low Hazard – Culpeper SWCD

Culpeper SWCD requested funding for construction of a primary conduit slip lining project. The project scope and need are supported by the principal spillway inspection report prepared by Schnabel Engineering dated February 6, 2019. Funding for this project has been requested in the amount of \$168,500 for construction. Request amount was revised based on contractor bid.

Funding for this project is recommended in the amount of **\$168,500** for construction.

ID#21-05 - INV#147001 – Buffalo Creek #1 – Significant Hazard – Piedmont SWCD

Piedmont SWCD requested funding for a wave berm, graded filter, and emergency spillway tile drain project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$165,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#21-06 - INV#147002 – Buffalo Creek #3 – Significant Hazard – Piedmont SWCD

Piedmont SWCD requested funding for a wave berm project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$93,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#21-07 - INV#147007 – Buffalo Creek #5 – Significant Hazard – Piedmont SWCD

Piedmont SWCD requested funding for a training dike improvement and road access relocation project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$87,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#21-09 - INV#147034 – Bush River #2 – High Hazard – Piedmont SWCD

Piedmont SWCD requested funding for a wave berm, emergency spillway storm damage repair, and gate valve repair project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$145,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#21-10 - INV#147039 – Bush River #5 – Low Hazard – Piedmont SWCD

Piedmont SWCD requested funding for a wave berm project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$102,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#21-11 - INV#147036 – Bush River #7 – High Hazard – Piedmont SWCD

Piedmont SWCD requested funding for emergency spillway storm damage repair and gate valve repair project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$132,000 for construction.

Funding for this project is recommended in the amount of **\$132,000** for construction.

ID#21-15 - INV#037003 – Roanoke Creek #35A – Low Hazard – Southside SWCD

Southside SWCD requested funding for a wave berm and storm damage repair project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$350,000 for construction.

Funding for this project is **not recommended** at this time. The requested amount exceeds funding capacity for FY 2022.

ID#22-01 – INV#113002 – Beautiful Run 2A – High Hazard – Culpeper SWCD

Culpeper SWCD requested additional funding for a wave berm project. The project has already received funding on SDR21002. Funding for this project has been requested in the amount of \$74,000 for construction.

Funding for this project is recommended in the amount of **\$74,500** for construction.

ID#22-02 – INV#085002 – South Anna River 52B – Significant Hazard – Hanover/Caroline SWCD

Hanover/Caroline SWCD requested funding for a wave berm project. Funding for this project has been requested in the amount of \$117,050.50 for construction. The engineering design for this project has been completed.

Funding for this project is recommended in the amount of **\$117,050.50** for construction.

ID#22-03 – INV#029019 – Willis River 2 – High Hazard Dam – Peter Francisco SWCD

Peter Francisco SWCD requested funding for access road crossing project. The project scope and need are supported by a site visit conducted by the District Dam Engineer. Funding for this project has been requested in the amount of \$55,300 for construction.

Funding for this project is recommended in the amount of **\$55,300** for construction.

ID#22-04 – DCR – Remote Monitoring Project

Refer to Appendix III for additional information on this project.

APPENDIX III
Remote Monitoring Project

Remote Monitoring Project

Phase 1

A total of eighteen (18) RX2100 data loggers were purchased in May 2020 at a total cost of \$21,246. The units were allocated to six (6) SWCDs for installation.

| SWCD | #Units | Equipment Cost | Installation Cost | Total Cost | Average Cost per Unit | Project Status |
|------------------|--------|----------------|-------------------|-------------|-----------------------|----------------|
| Blue Ridge | 4 | \$4,721.35 | \$5,200.00 | \$9,921.35 | \$2,480 | Installed |
| Culpeper | 3 | \$3,541.00 | \$17,113.98 | \$20,654.98 | \$6,885 | Installed |
| Headwaters | 1 | \$1,180.30 | \$2,000 | \$1,180.30 | \$2,000 | Installed |
| Mountain Castles | 2 | \$2,360.65 | \$8,000 | \$10,360.65 | \$5,180 | Installed |
| Piedmont | 4 | \$4,721.35 | \$11,344.78 | \$16,066.13 | \$4,016 | Installed |
| Thomas Jefferson | 4 | \$4,721.35 | \$24,075.36 | \$28,796.71 | \$7,199 | Installed |

Notes:

1. Headwaters SWCD installed the unit using SWCD staff. The SWCD will be reimbursed for material costs upon request.

Phase 2

A total of eighteen (60) RX2100 data loggers were purchased in September 2021 at a total cost of \$101,754.75.

| SWCD | #Units | Equipment Cost | Installation Cost | Total Cost | Average Cost per Unit | Project Status |
|-------------------|--------|----------------|-------------------|------------|-----------------------|---------------------|
| Blue Ridge | 3 | \$5,035.50 | Pending | Pending | Pending | Equipment Purchased |
| Culpeper | 3 | \$5,004.00 | Pending | Pending | Pending | Equipment Purchased |
| Hanover-Caroline | 1 | \$1,657.50 | Pending | Pending | Pending | Equipment Purchased |
| Headwaters | 8 | \$13,752.00 | Pending | Pending | Pending | Equipment Purchased |
| Lord Fairfax | 2 | \$3,468.00 | Pending | Pending | Pending | Equipment Purchased |
| Mountain Castles | 1 | \$1,689.00 | Pending | Pending | Pending | Equipment Purchased |
| Piedmont | 9 | \$15,231.00 | Pending | Pending | Pending | Equipment Purchased |
| Peter Francisco | 13 | \$21,987.00 | Pending | Pending | Pending | Equipment Purchased |
| Shenandoah Valley | 2 | \$3,561.75 | Pending | Pending | Pending | Equipment Purchased |
| Southside | 11 | \$18,579.00 | Pending | Pending | Pending | Equipment Purchased |
| Thomas Jefferson | 4 | \$6,693.00 | Pending | Pending | Pending | Equipment Purchased |
| Robert E Lee | 3 | \$5,097.00 | Pending | Pending | Pending | Equipment Purchased |

Each SWCD will be responsible for the installation of the remote monitoring equipment. Installation will include buried conduit with pull boxes, conduit in the permanent pool area, and a mounting pole on the crest of the dam. All installation costs will be reimbursed through the Soil and Water Conservation District Dam Maintenance, Repair, and Rehabilitation Fund.

The District Dam Engineer will assist in the set-up and configuration of the system and training will be provided to SWCD staff on how to use and maintain the system.

It is anticipated that all units will be installed and operational during FY2022-FY2023.

Future Deployment

The District Dam Engineer has been working with AMCI Wireless on a remote monitoring solution using satellite data communication. The AMCI Wireless systems are currently being used by the U.S. Forest Service.

Service Plan

Each unit requires an annual service plan. Project funding will be used to renew the plans for units already purchased.

Project Funding was used to extend the service plans for another year for a total amount of **\$4,250.00.**

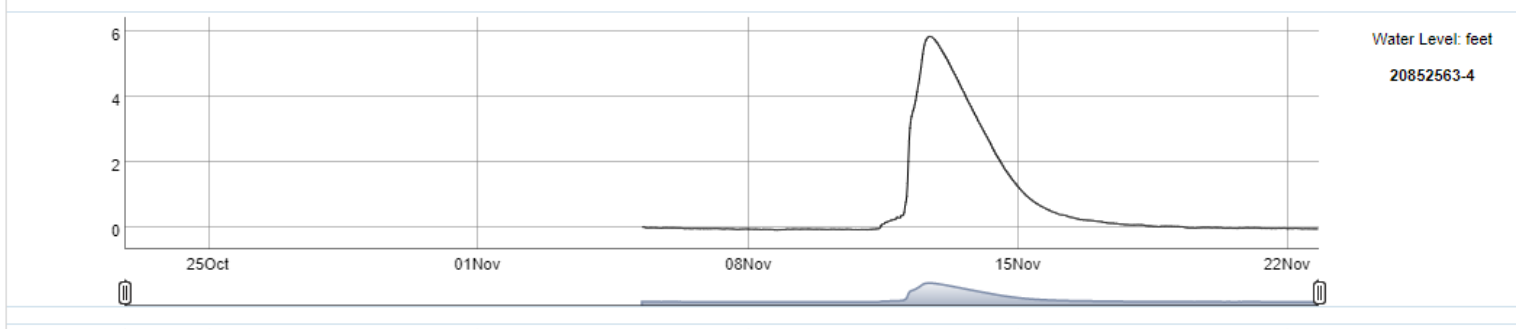
Example Data



Buffalo #5

Overview **Graphs** Logs Exports

Past Day Past Week **Past Month**



(Information from ONSET Website)

The HOBO MicroRX Water Level Station is a cellular, web-enabled water level monitoring solution for stormwater, floodwater, irrigation, hydrologic, and environmental applications. Pre-programmed water flow formulas for select weirs, flumes, and a stage discharge table result in an easy and intuitive configuration.

New water flow and accumulated rainfall calculations, which are performed directly on the station at time of measurement, trigger immediate notifications of critical water level conditions.

The compact and durable station, together with the non-vented water level sensor, enables harsh condition deployments and reliable monitoring. The optional integrated solar panel or battery power, with a wide range of plug-and-play smart sensors, supports flexible environmental monitoring.



Websites:

Onset: <https://www.onsetcomp.com/>

RX2100: <https://www.onsetcomp.com/products/data-loggers/rx2100-wl>

RX3000: <https://www.onsetcomp.com/products/data-loggers/rx3000>

HOBOLink Web-Based Display/Readout:

<https://www.onsetcomp.com/products/software/hobolink>

APPENDIX IV
FY 2021
Project Status

FY 2021 Projects Status:

A total of twelve (12) projects were allocated funds in FY 2021. Seven (7) of these projects are still in progress; four (4) projects have been completed; and one (1) project returned monies to the Fund.

| | |
|---------------------------------------|---------------------|
| FY 2021 Allocations: | \$1,043,675.00 |
| FY 2021 Reallocations: | \$44,399.00 |
| Payments from FY 2021 Allocations: | (\$381,095.10) |
| FY 2021 Allocations Returned to Fund: | (\$160,376.16) |
| FY 2021 Remaining Obligations: | \$546,602.74 |

FY 2021 Projects List:

SDR21001 - ID#21-01 - INV#089006 – Leatherwood Dam #4 – High Hazard – Blue Ridge SWCD

Project Status: Completed

Blue Ridge SWCD requested funding for a project to replace a culvert on the access road to the dam. Funding for this project was approved in the amount of \$20,000 for construction.

Final payment in the amount of \$19,101.48 was approved on July 29, 2021. The remaining balance of \$898.52 will be returned to the fund.

SDR21002 - ID#19-03 - INV#113002– Beautiful Run #2A – High Hazard – Culpeper SWCD

Project Status: In Progress

Culpeper SWCD requested funding for wave berm construction costs. This project has previously received funding for the design under SDR19002. The engineering design has been completed. Funding for this project was approved in the amount of \$66,000 for construction.

An initial draw down of funds in the amount of \$33,000 was approved on February 10, 2021.

A supplemental funding request for FY2022 for this project has been made.

SDR21003 - ID#20-09 - INV#113003–Beautiful Run #4 – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD requested funding for graded filter design. Funding for this project was approved in the amount of \$12,000 for design.

An initial draw down of funds in the amount of \$6,000 was approved on February 10, 2021.

A final payment of funds in the amount of \$6,000 was approved on December 21, 2021.

SDR21004 - ID#20-14- INV#113006–Beautiful Run #7 – Significant Hazard – Culpeper SWCD
Project Status: In Progress

Culpeper SWCD requested funding for construction of a primary conduit slip lining project. Funding for this project was approved in the amount of \$153,000 for construction.

An initial draw down of funds in the amount of \$76,500 was approved on February 10, 2021.

Banders Smith, Inc. started construction on the project in September 2021.

SDR21005 - ID#20-15 - INV#113007–Beautiful Run #10 – Low Hazard – Culpeper SWCD
Project Status: In Progress

Culpeper SWCD requested funding for construction of a primary conduit slip lining project. Funding for this project was approved in the amount of \$153,000 for construction.

An initial draw down of funds in the amount of \$76,500 was approved on February 10, 2021.

Banders Smith, Inc. started construction on the project in September 2021.

SDR21006 - ID#21-02 - INV#085002 –South Anna #52B – Significant Hazard – Hanover-Caroline SWCD
Project Status: In Progress

Hanover-Caroline SWCD requested funding for a wave berm replacement project. Funding for this project has been approved in the amount of \$30,000 for engineering design services.

AMT, Inc has completed the design work and the Division of Dam Safety has issued an Alteration Permit for the project.

SDR21007 - ID#21-03 - INV#015009 – South River #6 – High Hazard – Headwaters SWCD
Project Status: Completed

Headwaters SWCD requested funding for a woody vegetation removal and groin erosion repair project. Funding for this project was approved in the amount of \$25,000 for construction.

Final payment in the amount of \$16,921.36 was approved on April 9, 2021. The remaining balance of \$8,078.64 was transferred to SDR20008.

SDR21008 - ID#21-04 - INV#045001 – Johns Creek #2 – High Hazard – Mountain Castles SWCD
Project Status: In Progress

Mountain Castles SWCD requested funding for an emergency spillway stabilization project. Funding for this project was approved in the amount of \$30,000 for construction.

SDR21009 - ID#21-08 - INV#147008 – Buffalo Creek #6 – Significant Hazard – Piedmont SWCD
Project Status: Returned to Fund

Piedmont SWCD requested funding for a wave berm project. Funding for this was approved in the amount of \$107,000 for construction. Funds from SDR19008 in the amount of \$19,309.52; funds from SDR17012 in the amount of \$7,000; and funds from SDR19009 in the amount of \$18,089.48 were transferred to this project. Total project funding is **\$151,399.00.**

The District has requested that these funds be allocated toward the Bush River 7 project.

SDR21010 - ID#21-12 - INV#165001– Lower North River #80 – High Hazard – Shenandoah Valley SWCD
Project Status: In Progress

Shenandoah Valley SWCD requested additional funding for the road relocation project. This project previously received funding under SDR17019. NRCS prepared engineering designs and a cost estimate for this project in July 2014.

Additional project funding was approved in the amount of **\$45,000** for construction.

SDR21011 - ID#21-13 - INV#037012 – Roanoke Creek #31B – High Hazard – Southside SWCD

Project Status: Completed

Southside SWCD requested funding for removal of blockage in principal spillway project. Funding for this project was approved in the amount of \$2,675 for construction.

Final payment in the amount of \$2,675 was approved on April 9, 2021.

SDR21012 - ID#21-16 – DCR – Remote Monitoring Project

Project Status: In Progress

Refer to Appendix III for additional information on this project.

APPENDIX V
FY 2020
Project Status

FY 2020 Projects Status:

A total of seventeen (17) projects were allocated funds in FY 2020. Five (5) of these projects are still in progress; eleven (11) projects have been completed; and one (1) project returned monies to the Fund.

| | |
|---------------------------------------|---------------------|
| FY 2020 Allocations: | \$865,250.00 |
| FY 2020 Reallocations: | \$33,043.52 |
| Payments from FY 2020 Allocations: | (\$587,704.14) |
| FY 2020 Allocations Returned to Fund: | (\$26,645.32) |
| FY 2020 Remaining Obligations: | \$283,944.06 |

FY 2020 Projects List:

SDR20001 - ID#20-11 - INV#113003–Beautiful Run #4 – Low Hazard – Culpeper SWCD Project Status: In Progress

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of \$181,000 for design and construction. Funds from SDR19006 in the amount of \$13,319.56 was transferred to SDR20001. Total project funding is **\$194,319.56**.

An initial draw down of funds in the amount of \$97,159.78 was approved on March 17, 2020.

The Design for this project has been completed.

Banders Smith, Inc. started construction on the project in September 2021.

SDR20002 - ID#20-12 - INV#113004–Beautiful Run #5 – Low Hazard – Culpeper SWCD Project Status: Completed

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of **\$18,000** for the design.

An initial draw down of funds in the amount of \$9,000 was approved on March 17, 2020.

Final payment in the amount of \$6,088.67 was approved on February 10, 2021. The remaining balance of \$2,911.33 was transferred to SDR20006.

SDR20003 - ID#20-13 - INV#113005–Beautiful Run #6 – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of **\$18,000** for the design.

An initial draw down of funds in the amount of \$9,000 was approved on March 17, 2020.

Final payment in the amount of \$6,088.67 was approved on February 10, 2021. The remaining balance of \$2,911.33 was transferred to SDR20006.

SDR20004 - ID#20-14- INV#113006–Beautiful Run #7 – Significant Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of **\$18,000** for the design.

An initial draw down of funds in the amount of \$9,000 was approved on March 17, 2020.

Final payment in the amount of \$6,088.67 was approved on February 10, 2021. The remaining balance of \$2,911.33 was transferred to SDR20006.

SDR20005 - ID#20-15 - INV#113007–Beautiful Run #10 – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of **\$18,000** for the design.

An initial draw down of funds in the amount of \$9,000 was approved on March 17, 2020.

Final payment in the amount of \$6,088.67 was approved on February 10, 2021. The remaining balance of \$2,911.33 was transferred to SDR20006.

SDR20006 - ID#20-16 - INV#113008–Beautiful Run #11 – Significant Hazard – Culpeper SWCD

Project Status: In Progress

Culpeper SWCD requested funding for a primary conduit slip lining project. Funding for this project was approved in the amount of **\$171,000** for the design and construction.

An initial draw down of funds in the amount of \$85,500 was approved on March 17, 2020.

A second down of funds in the amount of \$6,088.66 was approved on February 10, 2021.

The Design for this project has been completed.

Banders Smith, Inc. started construction on the project in September 2021.

SDR20007 - ID#17-02 - INV#01502 – South River Dam #25 – High Hazard – Headwaters SWCD

Project Status: Returned to Fund

Headwaters SWCD requested funding for a wave berm reconstruction project. Funding for this project was approved in the amount of **\$15,000** for the design.

The SWCD has postponed the project and the monies have been returned to the Fund.

SDR20008 - ID#18-11 - INV#015001– South River Dam #26 – High Hazard – Headwaters SWCD

Project Status: In Progress

Headwaters SWCD requested funding for a wave berm reconstruction project. Funding for this project was approved in the amount of **\$15,000** for construction.

This project is dependent on the completion of SDR19007.

SDR20009 - ID#20-17- INV#147040 – Bush River 6 – Significant Hazard – Piedmont SWCD

Project Status: In Progress

Piedmont SWCD requested funding to repair the emergency spillway. Funding for this project was approved in the amount of **\$5,000** for construction.

The District is coordinating the needed repairs with the landowner.

**SDR20010 - ID#20-01 - INV#165001– Lower North River #80 – High Hazard –
Shenandoah Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$750** for construction.

Final payment in the amount of \$750 was approved on October 13, 2020.

**SDR20011 - ID#20-02 - INV#165002– Lower North River #78 – High Hazard –
Shenandoah Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$1,000** for construction.

Final payment in the amount of \$1,000 was approved on October 13, 2020.

**SDR20012 - ID#20-03 - INV#165003– Lower North River #83 – High Hazard –
Shenandoah Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$1,000** for construction.

Final payment in the amount of \$1,000 was approved on October 13, 2020.

**SDR20013 - ID#20-04 - INV#165004– Lower North River #22B – High Hazard –
Shenandoah Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$750** for construction.

Final payment in the amount of \$750 was approved on October 13, 2020.

**SDR20014 - ID#20-05 - INV#165007– Lower North River #82 – High Hazard –
Shenandoah Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$750** for construction.

Final payment in the amount of \$750 was approved on October 13, 2020.

**SDR20015 - ID#20-06 - INV#165010– Shoemaker River #4C – High Hazard – Shenandoah
Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$750** for construction.

Final payment in the amount of \$750 was approved on October 13, 2020.

**SDR20016 - ID#20-07 - INV#165011– Shoemaker River #3B – High Hazard – Shenandoah
Valley SWCD
Project Status: Completed**

Shenandoah Valley SWCD requested funding for storm debris removal. Funding for this project was approved in the amount of **\$1,250** for construction.

Final payment in the amount of \$1,250 was approved on October 13, 2020.

**SDR20017 - ID#20-18 – DCR – Remote Monitoring Project
Project Status: In Progress**

This project received funding during the 2019 General Assembly session. Refer to Appendix III for additional information on this project.

APPENDIX VI
FY 2019
Project Status

FY 2019 Projects Status:

A total of twenty (21) projects were allocated funds in FY 2019. Six (6) of these projects are still in progress; Fourteen (14) projects have been completed; and one (1) project returned monies to the Fund.

| | |
|---------------------------------------|--------------------|
| FY 2019 Allocations: | \$523,377.00 |
| FY 2019 Reallocations: | \$235,405.00 |
| Contingency Funds: | \$2,510.00 |
| Payments from FY 2019 Allocations: | (\$672,073.44) |
| FY 2019 Allocations Returned to Fund: | (\$61,218.56) |
| FY 2019 Remaining Obligations: | \$28,000.00 |

FY 2019 Projects List:

SDR19001 ID#19-01 - INV#047005– Mountain Run #13 – High Hazard – Culpeper SWCD Project Status: Completed

Culpeper SWCD requested funding for a wave berm design project. Funding for this project was approved in the amount of \$7,200. Funds from SDR18009 in the amount of \$6,000 was transferred to SDR19001. Total project funding is **\$13,200**.

Final payment was made in the amount of \$13,200.

SDR19002 - ID#19-02 - INV#113002– Beautiful Run #2A – High Hazard – Culpeper SWCD Project Status: Completed

Culpeper SWCD requested funding for a wave berm design project. Funding for this project was approved in the amount of \$5,200. Funds from SDR18003 in the amount of \$8,000 was transferred to SDR19002. Total project funding is **\$13,200**.

Final payment was made in the amount of \$13,200.

SDR19003 - ID#19-04 - INV#113004– Beautiful Run #5 – Low Hazard – Culpeper SWCD Project Status: Completed

Culpeper SWCD requested funding for a wave berm design project. Funding for this project was approved in the amount of \$7,200. Funds from SDR18004 in the amount of \$6,000 was transferred to SDR19003. Total project funding is **\$13,200**.

Final payment was made in the amount of \$13,200.

SDR19004 - ID#19-05 - INV#113008– Beautiful Run #11 – Significant Hazard – Culpeper SWCD

Project Status: Completed

Culpeper SWCD requested additional funding for a slope grading project. This project received funding per Grant Agreement Number SDR19004 in the amount of **\$86,757**. Funds from SDR18002 in the amount of \$7,153 have been transferred to this project as outlined in the Project Close-out Letter for SDR18002 dated April 30, 2019.

Final payment was made in the amount of \$93,910.

SDR19005 - ID#19-06 - INV#113009– Beautiful Run #1B – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD requested funding for a wave berm design project. Funding for this project was approved in the amount of \$7,200. Funds from SDR18006 in the amount of \$6,000 was transferred to SDR19005. Total project funding is **\$13,200**.

Final payment was made in the amount of \$13,200.

SDR19006 ID#19-07 - INV#047001– Mountain Run #8A– Significant Hazard – Culpeper SWCD

Project Status: Completed

Culpeper SWCD requested funding for the road relocation construction project. This project received funding per Grant Agreement Number SDR19006 in the amount of **\$101,820**. Funds from SDR18002 in the amount of \$11,792 have been transferred to this project as outlined in the Project Close-out Letter for SDR18002 dated April 30, 2019.

A partial payment was made in the amount of \$95,277.82.

Final payment in the amount of 5,014.62 was approved for payment on July 1, 2020. The remaining balance of \$13,319.56 was transferred to SDR20001.

SDR19007 - ID#19-08 - INV#015001– South River Dam #26 – High Hazard – Headwaters SWCD

Project Status: Completed

Headwaters SWCD requested funding for the mid-level gate project. Funding for this project was approved in the amount of \$80,000. Funds from SDR18011 in the amount of \$30,000 was transferred to SDR19007. Total project funding is **\$110,000**.

Final payment in the amount of \$111,130 was approved for payment on April 22, 2021. Contingency Funds in the amount of \$1,300 was utilized by this project.

SDR19008 - ID#19-09 - INV#147006– Buffalo Creek #2 – Significant Hazard – Piedmont SWCD

Project Status: Completed

Piedmont SWCD requested funding for the training berm project. Funding for this project was approved in the amount of \$35,000. Funds from SDR17018 in the amount of \$10,000 was transferred to SDR19008. Total project funding is **\$45,000**.

An initial draw down of funds in the amount of \$19,000 was approved on December 15, 2020.

Final payment in the amount of \$6,690.48 was approved on January 21, 2021. The remaining balance of \$19,309.52 was transferred to SDR21009.

SDR19009 - ID#19-10 - INV#147001– Buffalo Creek #9 – Significant Hazard – Piedmont SWCD

Project Status: Completed

Piedmont SWCD requested funding for the drainage swale project. Funding for this project was approved in the amount of \$15,000. Funds from SDR16005 in the amount of \$25,000 was transferred to SDR19009. Total project funding is **\$40,000**.

Final payment in the amount of \$21,910.52 was approved on January 21, 2021. The remaining balance of \$18,089.48 was transferred to SDR21009.

SDR19010 - ID#19-11 - INV#147039– Bush River #5 – Low Hazard – Piedmont SWCD

Project Status: In Progress

Piedmont SWCD requested funding for a wave berm reconstruction project. Funding for this project was approved in the amount of **\$15,000** for engineering design services.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

SDR19011 - ID#19-12 - INV#147036– Bush River #7 – High Hazard – Piedmont SWCD
Project Status: Completed

The District Dam Engineer is requesting funding to repair damage caused by Hurricane Michael. Funding for this project was approved in the amount of **\$30,000** for the design and construction.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

A Dam Safety Permit was issued on January 27, 2022.

SDR19012 - ID#19-13 - INV#147039– Bush River #5 – Low Hazard – Piedmont SWCD
Project Status: In Progress

The District Dam Engineer is requesting funding to repair damage caused by Hurricane Michael. Funding for this project was approved in the amount of \$5,000 for design and construction.

A draw down of funds in the amount of \$5,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

SDR19013 - ID#19-14 - INV#147034– Bush River #2 – High Hazard – Piedmont SWCD
Project Status: In Progress

The District Dam Engineer is requesting funding to repair damage caused by Hurricane Michael. Funding for this project was approved in the amount of **\$20,000** for design and construction.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR19014 - ID#19-15 - INV#165007– Lower North River #82 – High Hazard –
Shenandoah Valley SWCD
Project Status: In Progress**

Shenandoah Valley SWCD requested funding to replace the transmitter on the IFLOWS System. Funding for this project was approved in the amount of **\$6,500**.

The SWCD is currently working with a vendor to make the IFLOWS system operable.

**SDR19015 - ID#19-16 - INV#165003– Lower North River #83 – High Hazard –
Shenandoah Valley SWCD
Project Status: In Progress**

Shenandoah Valley SWCD requested funding to replace the transmitter on the IFLOWS System. Funding for this project was approved in the amount of **\$6,500**.

The SWCD is currently working with a vendor to make the IFLOWS system operable.

**SDR19016 - ID#18-01 - ID#19-17 - INV#037009 – Roanoke Creek #67 – High Hazard –
Southside SWCD
Project Status: Complete**

Southside SWCD requested funding to remove woody vegetation at the emergency spillway entrance and slopes. Funding for this project was approved in the amount of **\$6,000**.

Final payment in the amount of \$5,500 was approved for payment on August 18, 2020. The remaining balance of \$500 was transferred to SDR19017.

The SWCD is currently coordinating with their maintenance contractor to perform this work.

**SDR19017 - ID#19-18 – Multiple Dams – Southside SWCD
Project Status: Complete**

Southside SWCD requested funding to replace geotextile fabric and riprap around the stilling basin. Funding for this project was approved in the amount of \$23,000. Funds from SDR19016 in the amount of \$500 was transferred to SDR19017. Total project funding is **\$23,500**.

This request covers the following dams owned by this SWCD:

| | |
|-------|-------------------------|
| 03704 | Roanoke Creek Dam # 68 |
| 03705 | Roanoke Creek Dam #5B |
| 03707 | Roanoke Creek Dam # 49A |
| 03708 | Roanoke Creek Dam # 62 |
| 03709 | Roanoke Creek Dam # 67 |
| 03710 | Roanoke Creek Dam # 4A |
| 03711 | Roanoke Creek Dam # 61A |
| 03712 | Roanoke Creek Dam # 31B |
| 03713 | Roanoke Creek Dam #54 |
| 03715 | Roanoke Creek Dam # 43A |

Final payment in the amount of \$23,500 was approved for payment on August 18, 2020.

SDR19018 - ID#19-19 - INV#037003– Roanoke Creek #35A – Low Hazard – Southside SWCD

Project Status: In Progress

The District Dam Engineer is requesting funding to repair damage caused by Hurricane Michael. Funding for this project was approved in the amount of \$5,000 for design and construction.

A draw down of funds in the amount of \$5,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.004 contract accepted by the SWCD on June 23, 2020.

Final drawings and specifications were submitted to the District Dam Engineer.

SDR19019 - ID#19-20- INV#037004 – Roanoke Creek #68 – High Hazard – Southside SWCD

Project Status: Completed

The District Dam Engineer is requesting funding to repair damage caused by Hurricane Michael. Funding for this project was approved in the amount of **\$25,000** for design and construction.

The actual project cost may exceed the requested amounts. The District Dam Engineer reallocated funding from SDR18025 (regional riser structure assessment project) to cover any additional funding needs for this project. Funds from SDR18025 in the amount of **\$86,430** were transferred to SDR19019.

Work conducted to date consist of the emergency spillway repair (\$53,330); borrow area restoration (\$25,000); and driveway restoration (\$33,100).

Payment was made on September 11, 2019 in the amount of \$53,300.

Payment was made on November 25, 2019 in the amount of \$25,000.

Final payment was authorized on November 18, 2020 in the amount of \$33,100.00.

SDR19020 - ID#19-21 - INV#109031– South Anna #23 – High Hazard – Thomas Jefferson SWCD

Project Status: Completed

Thomas Jefferson SWCD requested funding for a mid-level gate project. Funding for this project was approved in the amount of \$36,000. Funds from SDR16010 in the amount of \$26,000 were transferred to SDR19020. Contingency funds in the amount of \$1,210 were applied to this project. Total project funding is **\$65,710**.

Final Payment was authorized on January 29, 2020 in the amount of \$65,710.

SDR19021 – INV#011004– East Fork Falling River #21 – Significant Hazard – Robert E. Lee SWCD

Project Status: Returned to Fund

East Fork Falling River #21 received funding in the amount of **\$10,000** to patch the concrete riser. The SWCD did not execute the Grant Agreement SDR19201.

This project is considered closed and the project allocation amount of \$10,000 will be returned to the Fund.

APPENDIX VII
FY 2018
Project Status

FY 2018 Projects Status:

A total of twenty-five (25) projects were allocated funds in FY 2018. Seven (7) of these projects are still in progress; nine (9) projects have been completed; and nine (9) projects returned monies to the Fund.

| | |
|--|-----------------------|
| FY 2018 Allocations: | \$553,973.00 |
| FY 2018 Reallocations: | \$3,000.00 |
| Payments from FY 2018 Allocations: | (\$261,997.20) |
| <u>FY 2018 Allocations Returned to Fund:</u> | <u>(\$287,475.80)</u> |
| FY 2018 Remaining Obligations: | \$7,500.00 |

FY 2018 Projects List:

Project status based on information contained in the Quarterly Reporting Forms and project updates provided to the District Dam Engineer.

SDR18001 - ID#18-01 - INV#089008– Marrowbone Creek #1 – High Hazard – Blue Ridge SWCD

Project Status: Completed

Blue Ridge SWCD requested funding for a core sample collection and testing project. Funding for this project was approved in the amount of **\$24,200** for construction.

Final project payment was made in the amount of \$24,200.

SDR18002 - ID#18-02– 11 Dams — Culpeper SWCD

Project Status: Completed

Culpeper SWCD requested funding for the video inspection of the corrugated metal pipes (CMP). Funding for this project was approved in the amount of **\$77,000**.

An initial payment of \$38,500 and a partial payment of \$32,490 have been made. Invoices for this project total \$58,025 with total project payments to date equaling \$70,900, resulting in an overpayment amount of \$12,965. The overpayment amount of \$12,965 was deducted from the SDR19002 project close-out disbursement. The remaining project allocation amount of \$18,975 was re-allocated to SDR19002 (\$30), SDR19004 (\$7,153), and SDR19006 (\$11,792).

SDR18003 - ID#18-15 - INV#113002– Beautiful Run Dam #2A – High Hazard – Culpeper SWCD

Project Status: Returned to Fund

Culpeper SWCD requested funding for the design and construction of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$8,000** for engineering design services.

During the design process, it was determined that additional funding was required. Additional funds for this project were requested and approved by the Virginia Soil and Water Conservation Board under SDR19002. This project is considered closed and the project allocation amount of \$8,000 will be transferred to Grant Agreement SDR19002.

SDR18004 - ID#18-04 - INV#113004– Beautiful Run Dam #5 – Low Hazard – Culpeper SWCD

Project Status: Returned to Fund

Culpeper SWCD requested funding for the design of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$6,000** for engineering design services.

During the design process, it was determined that additional funding was required. Additional funds for this project were requested and approved by the Virginia Soil and Water Conservation Board under SDR19003. This project is considered closed and the project allocation amount of \$6,000 will be transferred to Grant Agreement SDR19003.

SDR18005 - ID#18-06 - INV#11308 – Beautiful Run Dam #11 – Significant Hazard – Culpeper SWCD

Project Status: Completed

Culpeper SWCD requested funding for stilling basin repair and embankment grading. Funding for this project was awarded funding in the amount of \$61,000. The project also received contingency funds in the amount of \$6,273 per the letter dated March 28, 2018. Total funding for this project is **\$67,273**. The project received an initial drawdown in the amount of \$33,636.50.

Final project payment was made in the amount of \$33,635.70. The remaining project allocation amount of \$0.80 is returned to the Fund.

SDR18006 - ID#18-12 - INV#113009 – Beautiful Run Dam #1B – Low Hazard – Culpeper SWCD

Project Status: Returned to Fund

Culpeper SWCD requested funding for the design of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$6,000** for engineering design services.

During the design process, it was determined that additional funding was required. Additional funds for this project was requested and approved by the Virginia Soil and Water Conservation Board under SDR19005. This project is considered closed and the project allocation amount of \$6,000 will be transferred to Grant Agreement SDR19005.

SDR18007 - ID#18-13 - INV#047001– Mountain Run Dam #8A – Significant Hazard – Culpeper SWCD

Project Status: Completed

Culpeper SWCD requested funding for the design and construction of a road relocation project. Funding for this project was awarded in the amount of **\$10,000** for engineering design services only.

Final project payment was made in the amount of \$10,000.

SDR18008 - ID#17-40 - INV#047001 – Mountain Run Dam #8A – Significant Hazard – Culpeper SWCD

Project Status: In Progress

Culpeper SWCD requested funding to patch the concrete riser. Funding for this project was awarded in the amount of **\$5,000** for construction.

The SWCD is currently working to procure a contractor to perform this work.

SDR18009 - ID#18-18 - INV#047005 – Mountain Run Dam #13 – High Hazard – Culpeper SWCD

Project Status: Returned to Fund

Culpeper SWCD requested funding for the design of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$6,000** for engineering design services.

During the design process, it was determined that additional funding was required. Additional funds for this project were requested and approved by the Virginia Soil and Water

Conservation Board under SDR19001. This project is considered closed and the project allocation amount of \$6,000 will be transferred to Grant Agreement SDR19001.

SDR18010 - ID#18-19 - INV#047005 – Mountain Run Dam #13 – High Hazard – Culpeper SWCD

Project Status: In Progress

Culpeper SWCD requested funding to patch the concrete riser. Funding for this project was awarded in the amount of **\$2,500** for construction.

The SWCD is currently working to procure a contractor to perform this work.

SDR18011 - ID#18-14 - INV#015001 – South River Dam #26 – High Hazard – Headwaters SWCD

Project Status: Returned to Fund

Headwaters SWCD requested funding for the design and construction of a mid-level gate valve. Funding for this project was awarded in the amount of **\$30,000** for engineering design services and construction.

During the bidding process, it was determined that additional funding was required. Additional funds for this project were requested and approved by the Virginia Soil and Water Conservation Board under SDR19007. This project is considered closed and the project allocation amount of \$30,000 will be transferred to Grant Agreement SDR19007.

SDR18012 - ID#17-04 - INV#02901 – Willis River Dam #1A – High Hazard – Peter Francisco SWCD

Project Status: Completed

Peter Francisco SWCD requested funding for an outlet basin repair project. Funding for this project was awarded in the amount of **\$12,500** for construction.

Funds in the amount of **\$2,750** have been transferred to this project as outlined in the Project Close-out Letter for SDR18013.

Final project payment was made in the amount of \$15,250.

SDR18013 - ID#17-05 - INV#02902 – Willis River Dam #1B – High Hazard – Peter Francisco SWCD
Project Status: Completed

Peter Francisco SWCD requested funding for an outlet basin repair project. Funding for this project was awarded in the amount of **\$5,000** for construction.

Final project payment was made in the amount of \$2,000.

The remaining project allocation amount of \$3,000 will be re-allocated to SDR18012 (\$2,750) and SDR18004 (\$250).

SDR18014 - ID#17-06 - INV#02906 – Willis River Dam #5F – High Hazard – Peter Francisco SWCD
Project Status: Completed

Peter Francisco SWCD requested funding for an outlet basin repair and tree removal project. Funding for this project was awarded in the amount of **\$1,000** for construction.

Funds in the amount of **\$250** have been transferred to this project as outlined in the Project Close-out Letter for SDR18013.

Final project payment was made in the amount of \$1,250.

SDR18015 - ID#17-07 - INV#02909 – Willis River Dam #7 – High Hazard – Peter Francisco SWCD
Project Status: Completed

Peter Francisco SWCD requested funding for an outlet basin repair project. Funding for this project was awarded in the amount of **\$6,500** for construction.

Final project payment was made in the amount of \$6,500.

SDR18016 - ID#18-03 – INV#147001– Buffalo Creek Dam #1 – Significant Hazard – Piedmont SWCD
Project Status: In Progress

Piedmont SWCD requested funding for the design and construction of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$15,000** for engineering design services only.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment

process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR18017 - ID#18-07 - INV#147002 – Buffalo Creek Dam #3 – Significant Hazard –
Piedmont SWCD
Project Status: In Progress**

Piedmont SWCD requested funding for the design and construction of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$15,000** for engineering design services only.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR18018 - ID#18-08 - INV#14702 – Buffalo Creek Dam #3 – Significant Hazard –
Piedmont SWCD
Project Status: Returned to Fund**

Piedmont SWCD requested additional funding for an outlet basin repair project. Additional project funding was awarded in the amount of **\$3,500** for construction.

The SWCD was able to complete the project without using the additional allocated funds. The project allocation amount of \$3,500 is returned to the Fund.

**SDR18019 - ID#18-09 - INV#147007– Buffalo Creek Dam #5 – Significant Hazard –
Piedmont SWCD
Project Status: In Progress**

Piedmont SWCD requested funding for the design and construction of a training berm and relocation of vehicle access project. Funding for this project was awarded in the amount of **\$10,000** for engineering design services only.

A draw down of funds in the amount of \$10,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR18020 - ID#18-10 - INV#147008 – Buffalo Creek Dam #6 – Significant Hazard –
Piedmont SWCD
Project Status: In Progress**

Piedmont SWCD requested funding for the design and construction of a wave berm reconstruction project. Funding for this project was approved in the amount of **\$15,000** for engineering design services only.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR18021 - ID#17-12 - INV#14708 – Buffalo Creek Dam #6 – Significant Hazard –
Piedmont SWCD
Project Status: Returned to Fund**

Piedmont SWCD requested funding for an outlet basin repair project. Additional project funding was approved in the amount of **\$8,500** for construction.

The SWCD was able to complete the project without using the additional allocated funds. The project allocation amount of \$8,500 is returned to the Fund.

**SDR18022 - ID#17-13 - INV#14710 – Buffalo Creek Dam #8 – Significant Hazard –
Piedmont SWCD
Project Status: Returned to Fund**

Piedmont SWCD requested funding for an outlet basin repair project. Additional project funding was awarded in the amount of **\$1,000** for construction.

The SWCD was able to complete the project without using the additional allocated funds. The project allocation amount of \$1,000 is returned to the Fund.

SDR18023 - ID#17-15 - INV#147031 – Bush River Dam #2 – High Hazard – Piedmont SWCD

Project Status: In Progress

Piedmont SWCD requested funding for the design and construction of a wave berm reconstruction project. Funding for this project was awarded in the amount of **\$15,000** for engineering design services only.

A draw down of funds in the amount of \$15,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

SDR18024 - ID#18-20 - INV#109002 – Little River Dam #4 – Significant Hazard – Thomas Jefferson SWCD

Project Status: Completed

Thomas Jefferson SWCD requested funding for a trash rack replacement project. Funding for this project was awarded in the amount of \$10,000 for construction.

Final payment in the amount of \$7,500 was approved on January 29, 2020. The remaining balance of \$2,500 was transferred to SDR19020.

SDR18025 - ID#18-05 – Regional Riser Structure Assessment

Project Status: Returned to Fund

Funding was awarded in the amount of \$194,000 for the assessment and evaluation of the low level drain gate valves on SWCD dams. Funding for this project covered dams in Peter Francisco SWCD, Piedmont SWCD, and Southside SWCD.

The previous assessment conducted in FY 2017 found the gates could not be evaluated or operated due to excessive sedimentation around the gate. As a result, any future assessment projects need to include sediment removal which results in a substantial increase to project cost. At this time, DCR recommends managing the assessment, evaluation, and rehabilitation of the low level drain gate valves be conducted in conjunction with other projects such as wave berm replacements or dam rehabilitation projects.

The project funds have been reallocated by the Board at the December 5, 2018 meeting to cover costs to repair damage sustained during Hurricane Michael in Piedmont SWCD and Southside SWCD in FY 2019. Funds in the amount of \$86,430 have been transferred from this project to SDR19019. The remaining funds of \$107,570.00 have been returned to the fund and this project is considered closed.

APPENDIX VIII
FY 2017
Project Status

FY 2017 Projects Status:

A total of thirty-one (31) projects were allocated funds in FY 2017. Five (5) of these projects are still in progress; eighteen (18) projects have been completed; and eight (8) projects returned monies to the Fund.

| | |
|---------------------------------------|---------------------|
| FY 2017 Allocations: | \$498,938.00 |
| Payments from FY 2017 Allocations: | (\$263,067.00) |
| FY 2017 Allocations Returned to Fund: | (\$100,871.00) |
| FY 2017 Remaining Obligations: | \$135,000.00 |

FY 2017 Projects List:

Project status based on information contained in the Quarterly Reporting Form and project updates provided to the District Dam Engineer.

SDR17001 - ID#17-49 - INV#06701– Upper Blackwater #6 – High Hazard – Blue Ridge SWCD

Project Status: Completed

Blue Ridge SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$2,500** for construction. The project was bid by the SWCD; however, due to the lack participation by contractors in the bidding process, the SWCD plans to re-bid the project.

Final project payment was made in the amount of \$2,500 was made on February 5, 2021.

SDR17002 - ID#17-40 - INV#11308 – Beautiful Run Dam #11 – Significant Hazard – Culpeper SWCD

Project Status: Returned to Fund

Culpeper SWCD received funding for stilling basin repair and embankment grading. Funding for this project was approved in the amount of **\$6,000** for engineering design services and **\$30,000** for construction.

Allocated funds for this project were transferred to SDR18005 (stilling basin repair and embankment grading).

SDR17003 - ID#17-48 - INV#11306 – Beautiful Run Dam #7 – Significant Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD received funding for a groin armoring, seeding, liming, and fertilizing project. Funding for this project was approved in the amount of **\$22,858** for construction.

Final project payment was made in the amount of \$20,749. The remaining project allocation amount of \$2,109 was returned to the Fund.

SDR17004 - ID#17-51 - INV#11303 – Beautiful Run Dam #4 – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD received funding for an access road repair project. Funding for this project was approved in the amount of **\$6,000** for construction. Final project payment was made in the amount of \$4,449. The remaining project allocation amount of \$1,551 was returned to the Fund.

SDR17005 - ID#17-52 - INV#11304 – Beautiful Run Dam #5 – Low Hazard – Culpeper SWCD
Project Status: Completed

Culpeper SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$6,000** for construction.

Final project payment was made in the amount of \$4,449. The remaining project allocation amount of \$1,551 was returned to the Fund.

SDR17006 - ID#17-01 - INV#01501 – South River Dam #26 – High Hazard – Headwaters SWCD
Project Status: Returned to Fund

Headwaters SWCD received funding for a wave berm reconstruction project. Funding for this project was approved in the amount of **\$14,780** for construction.

An Invitation for Bids (IFB) for this was issued on May 12, 2017. It was determined during the IFB process that the project costs would exceed the approved funding. The SWCD consulted with the District Dam Engineer, and it was determined that the use of contingency funds was not sufficient to cover the project exceedance. The control of the water level during construction was identified as the reason for the exceedance. The IFB was canceled on May 26, 2017.

The SWCD consulted with District Dam Engineer and it was determined that a mid-level gate project would allow for a lower normal pool elevations during construction and will provide the best value to the SWCD. The SWCD will submit a request for the installation of a mid-level gate, rather than allocating additional funds for the wave berm project at this time. The SWCD shall re-apply for funding for the wave berm reconstruction project after the mid-level gate project is completed.

Based on the above information, this project is considered completed. The project allocation amount of \$14,780 was returned to the Fund.

SDR17007 - ID#17-17 - INV#04501 – John’s Creek Dam #2 – High Hazard – Mountain Castles SWCD
Project Status: Completed

Mountain Castles SWCD received funding for an emergency spillway road relocation project. Funding for this project was approved in the amount of **\$8,000** for engineering design services.

Final payment in the amount of \$8,000 was authorized on October 13, 2020 and will be disbursed as part of the next Quarterly Administrative and Operation Support Disbursement.

SDR17008 - ID#17-44 - INV#02905 – Willis River Dam #5E – High Hazard – Peter Francisco SWCD
Project Status: Completed

Peter Francisco SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$10,000** for construction. Final project payment was made in the amount of \$7,400. The remaining project allocation amount of \$2,600 was returned to the Fund.

SDR17009 - ID#17-45 - INV#02903 – Willis River Dam #3 – High Hazard – Peter Francisco SWCD
Project Status: Completed

Peter Francisco SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$7,000** for construction. Final project payment was made in the amount of \$4,770. The remaining project allocation amount of \$2,230 was returned to the Fund.

SDR17010 - ID#17-46 - INV#02909 – Willis River Dam #7 – High Hazard – Peter Francisco SWCD

Project Status: Completed

Peter Francisco SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$15,000** for construction. Final project payment was made in the amount of \$9,980. The remaining project allocation amount of \$5,020 was returned to the Fund.

SDR17011 - ID#17-47 - INV#02910 – Willis River Dam #9 – High Hazard – Peter Francisco SWCD

Project Status: Completed

Peter Francisco SWCD received funding for access road repair project. Funding for this project was approved in the amount of **\$15,000** for construction. Final project payment was made in the amount of \$8,400. The remaining project allocation amount of \$6,600 was returned to the Fund.

SDR17012 - ID#17-11 - INV#14706 – Buffalo Creek Dam #2 – Significant Hazard – Piedmont SWCD

Project Status: Completed

Piedmont SWCD received funding for an outlet basin repair project. Funding for this project was approved in the amount of **\$7,000** for construction. The SWCD anticipates completing this project at the same time as SDR-19008 (existing training dike project).

SDR17013 - ID#17-12 - INV#14702 – Buffalo Creek Dam #3 – Significant Hazard – Piedmont SWCD

Project Status: Completed

Piedmont SWCD received funding for an outlet basin repair project. Funding for this project was approved in the amount of **\$7,000** for construction. Final project payment was made in the amount of \$5,500. The remaining project allocation amount of \$1,500 was returned to the Fund.

SDR17014 - ID#17-13 - INV#14708 – Buffalo Creek Dam #6 – Significant Hazard – Piedmont SWCD

Project Status: Completed

Piedmont SWCD received funding for an outlet basin repair project. Funding for this project was approved in the amount of **\$5,000** for construction. Final project payment was made in the amount of \$5,000.

**SDR17015 - ID#17-14 - INV#14709 – Buffalo Creek Dam #7 – Significant Hazard –
Piedmont SWCD
Project Status: Completed**

Piedmont SWCD received funding for an outlet basin repair project. Funding for this project was approved in the amount of **\$7,000** for construction. Final project payment was made in the amount of \$6,000. The remaining project allocation amount of \$1,000 was returned to the Fund.

**SDR17016 - ID#17-15 - INV#14710 – Buffalo Creek Dam #8 – Significant Hazard –
Piedmont SWCD
Project Status: Completed**

Piedmont SWCD received funding for an outlet basin repair project. Funding for this project was approved in the amount of **\$7,000** for construction. Final project payment was made in the amount of \$5,500. The remaining project allocation amount of \$1,500 was returned to the Fund.

**SDR17017 - ID#17-20 - INV#14701 – Buffalo Creek Dam #1 – Significant Hazard –
Piedmont SWCD
Project Status: In Progress**

Piedmont SWCD received funding for the expansion of the existing emergency spillway underdrain system. Funding for this project was approved in the amount of **\$6,000** for engineering design services and **\$15,000** for construction.

A draw down of funds in the amount of \$21,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.000 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

**SDR17018 - ID#17-21 - INV#14706 – Buffalo Creek Dam #2 – Significant Hazard –
Piedmont SWCD
Project Status: Returned to Fund**

Piedmont SWCD received funding to raise the existing training berm. Funding for this project was approved in the amount of **\$10,000** for engineering design services.

The SWCD has secured NRCS engineering assistance for the design of this project. NRCS completed the engineering design for this project in April 2018 at no cost to the SWCD. The engineering cost estimate for construction was \$36,944.00.

Construction funds for this project were requested and approved by the Virginia Soil and Water Conservation Board under SDR19008. This project is considered closed and the project allocation amount of \$10,000 will be transferred to Grant Agreement SDR19008.

SDR17019 - ID#17-03 - INV#16501 – Lower North Dam #80 – High Hazard – Shenandoah Valley SWCD

Project Status: In Progress

Shenandoah Valley SWCD received funding for an emergency spillway road relocation project. Funding for this project was awarded in the amount of **\$15,000** for engineering services and **\$80,000** for construction.

An additional funding request ID#21-12 has been submitted based on the AMT review of the drawings.

SDR17020 - ID#17-16 - INV#16501 – Lower North Dam #80 – High Hazard – Shenandoah Valley SWCD

Project Status: In Progress

Shenandoah Valley SWCD received funding for gate valve pedestal repair. Funding for this project was awarded in the amount of **\$5,000** for construction.

This work will be concurrent with SDR17019.

SDR17021 -ID#17-30 -INV#16504 – Lower North Dam #22B – High Hazard – Shenandoah Valley SWCD

Project Status: Returned to Fund

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. The project allocation amount of \$1,600 was returned to the Fund.

SDR17022 - ID#17-31 - INV#16502 – Lower North Dam #78 – High Hazard – Shenandoah Valley SWCD

Project Status: Completed

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. Final project payment was made in the amount of \$1,840. Contingency funds in the amount of \$240.00 were approved for use on this project.

SDR17023 - ID#17-32 - INV#16501 – Lower North Dam #80 – High Hazard – Shenandoah Valley SWCD

Project Status: Returned to Fund

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. The project allocation amount of \$1,600 was returned to the Fund.

SDR17024 - ID#17-33 - INV#16507 – Lower North Dam #82 – High Hazard – Shenandoah Valley SWCD

Project Status: Completed

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. Final project payment was made in the amount of \$1,840. Contingency funds in the amount of \$240.00 were approved for use on this project.

SDR17025 - ID#17-34 - INV#16505 – Lower North Dam #83 – High Hazard – Shenandoah Valley SWCD

Project Status: Completed

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. Final project payment was made in the amount of \$1,690.00. Contingency funds in the amount of \$90.00 were approved for use on this project.

SDR17026 - ID#17-35 - INV#16511 – Shoemaker Dam #3B – High Hazard – Shenandoah Valley SWCD

Project Status: Returned to Fund

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. The project allocation amount of \$1,600 was returned to the Fund.

SDR17027 - ID#17-36 - INV#16509 – Shoemaker Dam #1A – High Hazard – Shenandoah Valley SWCD

Project Status: Returned to Fund

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. The project allocation amount of \$1,600 was returned to the Fund.

SDR17028 - ID#17-37 - INV#16510 – Shoemaker Dam #4C – High Hazard – Shenandoah Valley SWCD

Project Status: Returned to Fund

Shenandoah Valley SWCD received funding for herbicide application and removal of sloughed material. Funding for this project was awarded in the amount **\$1,600**. The project allocation amount of \$1,600 was returned to the Fund.

SDR17029 - ID#17-10 - INV#3708 – Roanoke Creek Dam #62 – High Hazard – Southside SWCD

Project Status: In Progress

Southside SWCD received funding for trash rack repair and wave berm reconstruction project. Funding for this project was approved in the amount of **\$10,000** for engineering design services and **\$35,000** for construction.

A draw down of funds in the amount of \$10,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.004 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

SDR17030 - ID#17-19 - INV#03703 – Roanoke Creek Dam #35A – Low Hazard – Southside SWCD

Project Status: In Progress

Southside SWCD received funding for a wave berm rehabilitation project. Funding for this project was approved in the amount of **\$10,000** for engineering design services.

A draw down of funds in the amount of \$10,000 was approved on August 17, 2020. The funding was provided to the SWCD in a lump sum to enable a more efficient payment

process; however, the District Dam Engineer reviews and approves the monthly invoices prior to payment by the SWCD. All of these projects are supported by the AMT Project 19-0710.004 contract accepted by the SWCD on June 23, 2020.

Final drawings have been submitted by the engineer for review and are pending submittal to the Division of Dam Safety.

SDR17031 - ID#17-53 – Regional Riser Structure Assessment
Project Status: Completed

DCR received funding for a gate valve evaluation project. Funding for this project was approved in the amount of **\$124,000**. Funding under this request covered the assessment of dams in Blue Ridge SWCD, Mountain Castles SWCD, and Robert E. Lee SWCD. Final project payment was made in the amount of \$124,000.