

**Christopher Heyn, P.E., Director**  
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**Department of  
Land and Resource Management**  
Carroll County Government  
225 North Center Street  
Westminster, Maryland 21157

December 21, 2022

Raymond P. Bahr  
Deputy Program Manager  
Sediment, Stormwater, and Dam Safety Program  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, Maryland 21230

Re: 2022 Carroll County Financial Assurance Plan  
Watershed Protection and Restoration Program

Dear. Ray:

The attached Carroll County 2022 Financial Assurance Plan (FAP) is being submitted per requirements of the Code of Maryland Regulations (COMAR) subsection 4-202-1. The FAP has been prepared per the Maryland Department of the Environment developed spreadsheets and approved per the requirements of subsection 4-201.1(J)(3). The Board of County Commissioners of Carroll County held three public venues regarding the FAP:

1. An October 27, 2022, briefing by staff to the Board regarding the FAP, which included Board approval to move forward to a public hearing.
2. A November 3, 2022, public hearing by the Board regarding the FAP.
3. A November 17, 2022, Board Session in which the FAP was approved

The Carroll County 2022 FAP demonstrates sufficient funding in the current fiscal year and subsequent budgets to meet its anticipated costs per requirements with this 2022 submittal. Also included in this submittal is the Watershed Protection and Restoration Program Annual Report Table.

While the FAP reflects current conditions related to impervious surface assessment and stormwater waste load allocations, the County expressly reserves the right to modify and amend such numbers as may be necessary based on new permit requirements, budget constraints, or other unforeseen circumstances.

Finally, I would like to extend the County's sincere appreciation to you and your staff for your continued support and assistance. I look forward to MDE and the County continuing to work jointly on any issues through the review and reporting process.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Heyn".

Christopher P. Heyn, P.E.  
Director

CPH/mlb

cc: Board of County Commissioner  
Timothy C. Burke, County Attorney  
Water Resource Coordination Council  
Janet O'Meara, Bureau Chief, Bureau of Resource Management

| MS4 Information                       |  |
|---------------------------------------|--|
| Jurisdiction                          | Carroll County   |
| Contact Name                          | Christopher Heyn, PE   |
| Phone                                 | 410-386-2639   |
| Address                               | 225 N Center Street  |
| City                                  | Westminster  |
| State                                 | Maryland   |
| Zip                                   | 21157  |
| Email                                 | <a href="mailto:cheyn@carrollcountymd.gov">cheyn@carrollcountymd.gov</a> |
| Continued Annual Alternative ISR (ac) | 0.00   |
| Required ISR New Permit (ac)          | 1217.00  |
| Total ISR (ac)                        | 1,217  |
| Permit Num                            | 11-FP-3319   |
| Permit Period (FY)                    | 2022   |
| Reporting FY                          | 2022   |

**Check with MDE Geodatabase:**

Should match Permit info table of Geodatabase, except for ISR requirements for continuing alternative controls and additional- that should match permit language of E.1.b and E.3

**Check with Permit Language:**

Continued annual alternative ISR and required ISR new permit should match MS4 Permit condition E. Stormwater Restoration.

Version 6-22-22

**Article 4-202.1(j)(1)(i)1: Actions that will be required of the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

Note: To identify all "actions" required under the MS4 permit, provide an executive summary of the jurisdiction's MS4 programs. See MDE's FAP Guidance. For proposed actions to meet the impervious surface restoration plan, fill in the table below.

**Continued Annual Alternative ISR (ac) 17**  
**Required ISR New Permit (ac): 1,217**  
**Total ISR (ac): 1,234**

| REST BMP TYPE <sup>1</sup>  | BMP CLASS | IMPERVIOUS ACRES | % ISR GOAL | IMPLEMENTATION COSTS | IMPLEMENTATION STATUS | IMPLEMENTATION COMPLETION YEAR (FY) |
|---|-----------|------------------|------------|----------------------|-----------------------|-------------------------------------|
| <b>Obligations from Previous Permit That Must Be Continued or Met</b>           |           |                  |            |                      |                       |                                     |
| <b>Operational Programs<sup>2,3</sup></b>                                       |           |                  |            |                      |                       |                                     |
| CBC   | A         | 16               | 94%        | \$0                  | COMPLETE              | 2019                                |
| VSS   | A         | 1                | 6%         | \$0                  | COMPLETE              | 2019                                |
| Operations Next Two Years (FY23-24) <sup>4</sup>                                |           | 0                | 0%         | \$0                  |                       |                                     |
| Operations Next Five Years (FY23-27) <sup>4</sup>                               |           | 0                | 0%         | \$0                  |                       |                                     |
| <b>Capital Projects (Completed to Replace Annual Obligations)<sup>2,3</sup></b> |           |                  |            |                      |                       |                                     |
| FSND  | S         | 19.61            | 115%       | \$1,085,397          | COMPLETE              | 2020                                |
|   |           |                  | 0%         |                      |                       |                                     |
| Subtotal Capital Next Two Years   |           | 0                | 0%         | \$0                  |                       |                                     |
| Subtotal Capital Next Five Years (FY23-27)                                      |           | 0                | 0%         | \$0                  |                       |                                     |

Shiloh Middle \$ 199,855.00 \$ 885,541.94 \$ 1,085,396.94

| REST BMP TYPE <sup>1</sup>   | BMP CLASS | IMPERVIOUS ACRES | % ISR GOAL | IMPLEMENTATION COSTS | IMPLEMENTATION STATUS | IMPLEMENTATION COMPLETION YEAR (FY) |
|--|-----------|------------------|------------|----------------------|-----------------------|-------------------------------------|
| <b>Other (Completed to Replace Annual Obligations)<sup>2,3</sup></b> |           |                  |            |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
| Subtotal Other Next Two Years (FY23-24)                              |           | 0                | 0%         | \$0                  |                       |                                     |
| Subtotal Other Next Five Years (FY23-27)                             |           | 0                | 0%         | \$0                  |                       |                                     |
| <b>Total Continued Obligations Next Two Years (FY23-24)</b>          |           | <b>0</b>         | <b>0%</b>  | <b>\$0</b>           |                       |                                     |
| <b>Total Continued Obligations Next Five Years (FY23-27)</b>         |           | <b>0</b>         | <b>0%</b>  | <b>\$0</b>           |                       |                                     |
| <b>Restoration for the New Permit</b>                                |           |                  |            |                      |                       |                                     |
| <b>Operational Programs<sup>3,5</sup></b>                            |           |                  |            |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
| Operations Next Two Years (FY23-24) <sup>4</sup>                     |           | 0                | 0%         | \$0                  |                       |                                     |
| Operations Next Five Years (FY23-27) <sup>4</sup>                    |           | 0                | 0%         | \$0                  |                       |                                     |
| <b>Capital Projects<sup>3,5</sup></b>                                |           |                  |            |                      |                       |                                     |
| MSGW   | S         | 2.05             | 0%         | \$111,108            | COMPLETE              | 2020                                |
| PWED   | S         | 91.8             | 8%         | \$3,507,367          | COMPLETE              | 2020                                |
| RFP  | A         | 36.1             | 3%         | \$190,339            | COMPLETE              | 2021                                |
| FPU  | A         | 29.6             | 2%         | \$212,571            | COMPLETE              | 2021                                |
| FSND   | S         | 16.41            | 1%         | \$799,844            | COMPLETE              | 2021                                |
| PWED   | S         | 93.64            | 8%         | \$3,169,828          | COMPLETE              | 2021                                |
| PWED   | S         | 106.09           | 9%         | \$2,670,400          | COMPLETE              | 2021                                |
| STRE   | A         | 28.2             | 2%         | \$600,000            | COMPLETE              | 2021                                |
| STRE   | A         | 279.31           | 23%        | \$2,013,774          | COMPLETE              | 2022                                |
| PWED   | S         | 47.78            | 4%         | \$1,276,264          | COMPLETE              | 2022                                |
| FSND   | S         | 21.03            | 2%         | \$761,645            | COMPLETE              | 2022                                |
| STRE   | A         | 59.57            | 5%         | \$700,000            | COMPLETE              | 2022                                |
| FSND   | S         | 1.17             | 0%         | \$100,000            | COMPLETE              | 2022                                |

FY22 Work Complete

| Project                    | Grant & Partnership    | Cash                 | Bond                   | Total                  |
|----------------------------|------------------------|----------------------|------------------------|------------------------|
| Trevanion Terrace Retrofit | \$ 632,010.00          |                      | \$ 644,254.10          | \$ 1,276,264.10        |
| Woodsyde One Retrofit      | \$ 829,195.00          |                      | \$ 732,449.91          | \$ 1,561,644.91        |
| Woodsyde Two Retrofit      |                        |                      |                        | \$ -                   |
| Mayberry SR                | \$ 1,470,000.00        | \$ 543,773.62        |                        | \$ 2,013,773.62        |
| Woodsyde SR                |                        |                      |                        | \$ -                   |
| <b>Total</b>               | <b>\$ 2,931,205.00</b> | <b>\$ 543,773.62</b> | <b>\$ 1,376,704.01</b> | <b>\$ 4,851,682.63</b> |
| Project                    | Grant & Partnership    | Cash                 | Bond                   | Total                  |
| Benjamins Claim - Jacobs   |                        |                      | \$ 111,108.00          | \$ 111,108.00          |
| Roberts Mill               | \$ 1,660,090.05        |                      | \$ 1,847,277.03        | \$ 3,507,367.08        |
| Tree Plantings             | \$ 230,215.07          | \$ 24,000.00         | \$ 148,694.93          | \$ 402,910.00          |
| Tree Plantings             |                        |                      |                        | \$ -                   |
| Greens of Westminster      | \$ 347,340.00          |                      | \$ 452,503.70          | \$ 799,843.70          |
| Langdon (Jantz)            | \$ 1,879,941.00        |                      | \$ 1,289,887.12        | \$ 3,169,828.12        |
| Willow Pond Retrofit       | \$ 1,900,000.00        |                      | \$ 1,370,400.17        | \$ 3,270,400.17        |
| Willow Pond SR             |                        |                      |                        | \$ -                   |
| Mayberry SR                | \$ 1,470,000.00        | \$ 543,773.62        |                        | \$ 2,013,773.62        |
| Trevanion Terrace Retrofit | \$ 632,010.00          |                      | \$ 644,254.10          | \$ 1,276,264.10        |
| Woodsyde One Retrofit      | \$ 829,195.00          |                      | \$ 732,449.91          | \$ 1,561,644.91        |
| Woodsyde SR                |                        |                      |                        | \$ -                   |
| Woodsyde Two Retrofit      |                        |                      |                        | \$ -                   |

| REST BMP TYPE <sup>1</sup> | BMP CLASS | IMPERVIOUS ACRES | % ISR GOAL | IMPLEMENTATION COSTS | IMPLEMENTATION STATUS | IMPLEMENTATION COMPLETION YEAR (FY) |                                 |    |            |    |            |    |            |
|----------------------------|-----------|------------------|------------|----------------------|-----------------------|-------------------------------------|---------------------------------|----|------------|----|------------|----|------------|
| RFP                        | A         | 3.66             | 0%         | \$7,949              | COMPLETE              | 2022                                | Tree Plantings                  | \$ | 31,000.00  | \$ | 24,550.00  | \$ | 55,550.00  |
| FPU                        | A         | 6.73             | 1%         | \$47,601             | COMPLETE              | 2022                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| STRE                       | A         | 65.75            | 5%         | \$1,300,000          | PLANNING              | 2023                                | Brynwood SR                     | \$ | 103,771.50 | \$ | 94,432.50  | \$ | 198,204.00 |
| WPKT                       | S         | 22.5             | 2%         | \$953,398            | UNDER CONST           | 2023                                | Locust Wetland                  |    |            | \$ | 783,313.00 | \$ | 783,313.00 |
| MSGW                       | S         | 0.19             | 0%         | \$450,000            | PLANNING              | 2023                                | North Carroll Library           |    |            | \$ | 23,643.00  | \$ | 23,643.00  |
| FSND                       | S         | 4.14             | 0%         | \$192,460            | UNDER CONST           | 2023                                | Patapsco Valley Overlook        |    |            | \$ | 192,460.00 | \$ | 192,460.00 |
| FSND                       | S         | 7.5              | 1%         | \$540,200            | PLANNING              | 2023                                | St George's Gate Retrofit       |    |            | \$ | 40,200.00  | \$ | 40,200.00  |
| MSGW                       | S         | 8.44             | 1%         | \$322,606            | UNDER CONST           | 2023                                | Stone Manor Retrofit            |    |            | \$ | 314,980.00 | \$ | 314,980.00 |
| FSND                       | S         | 5.92             | 0%         | \$551,580            | PLANNING              | 2023                                | Sun Valley II Retrofit          |    |            | \$ | 47,620.00  | \$ | 47,620.00  |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2023                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| FSND                       | S         | 22.53            | 2%         | \$1,100,000          | PLANNING              | 2024                                | Century High School Retrofit    |    |            | \$ | 93,750.00  | \$ | 93,750.00  |
| FSND                       | S         | 12.66            | 1%         | \$1,500,000          | PLANNING              | 2024                                | Hampstead Valley 1 Retrofit     |    |            | \$ | 83,790.00  | \$ | 83,790.00  |
| STRE                       | A         | 13.5             | 1%         | \$1,150,000          | PROPOSED              | 2024                                | Hampstead Valley 2 & 3 SR       |    |            |    |            | \$ | -          |
| STRE                       | A         | 20               | 2%         |                      | PLANNING              | 2024                                | Oklahoma Sediment               |    |            |    |            |    |            |
| FSND                       | S         | 2.3              | 0%         | \$1,500,000          | PLANNING              | 2024                                | Melstone Valley Retrofit        |    |            | \$ | 75,000.00  | \$ | 75,000.00  |
| PWED                       | S         | 9.18             | 1%         | \$1,500,000          | PROPOSED              | 2024                                | Squires                         |    |            |    |            | \$ | -          |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2024                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| PWED                       | S         | 6.96             | 1%         | \$825,000            | PLANNING              | 2025                                | CC Health Dept                  |    |            | \$ | 78,900.00  | \$ | 78,900.00  |
| WPKT                       | S         | 23.45            | 2%         | \$1,100,000          | PLANNING              | 2025                                | New Windsor Wetland             |    |            | \$ | 93,600.00  | \$ | 93,600.00  |
| MSGW                       | S         | 30.81            | 3%         | \$3,500,000          | PLANNING              | 2025                                | Roberts Field Wet Pond Retrofit | \$ | 50,000.00  | \$ | 149,791.00 | \$ | 199,791.00 |
| STRE                       | A         | 17.5             | 1%         | \$600,000            | PROPOSED              | 2025                                | Roberts Field Wet Pond SR       |    |            |    |            | \$ | -          |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2025                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| FSND                       | S         | 20.76            | 2%         | \$1,500,000          | PROPOSED              | 2026                                | Hampstead Valley 4              |    |            | \$ | 99,880.00  | \$ | 99,880.00  |
| STRE                       | A         | 7.18             | 1%         | \$107,103            | PROPOSED              | 2026                                | Hampstead Valley 4 SR           |    |            |    |            | \$ | -          |
| FSND                       | S         | 36.6             | 3%         | \$1,100,000          | PROPOSED              | 2026                                | Manchester East                 |    |            |    |            | \$ | -          |
| FSND                       | S         | 5.73             | 0%         | \$850,000            | PROPOSED              | 2026                                | Meadow Ridge (2)                |    |            |    |            | \$ | -          |
| FSND                       | S         | 8.3              | 1%         | \$850,000            | PROPOSED              | 2026                                | Piney Ridge Village             |    |            |    |            | \$ | -          |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2026                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| PWED                       | S         | 36.63            | 3%         | \$1,600,000          | PROPOSED              | 2027                                | Winters Street                  |    |            |    |            | \$ | -          |
| PWED                       | S         | 19.94            | 2%         | \$1,100,000          | PROPOSED              | 2027                                | Winters Mill HS                 |    |            |    |            | \$ | -          |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2027                                | Tree Plantings                  |    |            |    |            | \$ | -          |
| PWED                       | S         | 46.35            | 4%         | \$1,650,000          | PROPOSED              | 2028                                | BTR (Black and Decker)          |    |            |    |            | \$ | -          |
| FSND                       | S         | 5.13             | 0%         | \$250,000            | PROPOSED              | 2028                                | Candice Estates                 |    |            |    |            | \$ | -          |
| FSND                       | S         | 5.1              | 0%         | \$650,000            | PROPOSED              | 2028                                | North Carroll Farms 4           |    |            |    |            | \$ | -          |
| PWED                       | S         | 11.76            | 1%         | \$1,325,000          | PROPOSED              | 2028                                | Windsong Estates                |    |            |    |            | \$ | -          |
| FPU                        | A         | 12.5             | 1%         | \$100,000            | PROPOSED              | 2028                                | Tree Plantings                  |    |            |    |            | \$ | -          |

| REST BMP TYPE <sup>1</sup>                 | BMP CLASS | IMPERVIOUS ACRES | % ISR GOAL | IMPLEMENTATION COSTS | IMPLEMENTATION STATUS | IMPLEMENTATION COMPLETION YEAR (FY) |
|--|-----------|------------------|------------|----------------------|-----------------------|-------------------------------------|
| Subtotal Capital Next Two Years (FY23-24)  |           | 220              | 18%        | \$11,260,244         |                       |                                     |
| Subtotal Capital Next Five Years (FY23-27) |           | 471              | 39%        | \$24,692,347         |                       |                                     |
| Other <sup>3,5</sup>                       |           |                  |            |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
|  |           |                  | 0%         |                      |                       |                                     |
| Subtotal Other Next Two Years (FY23-24)    |           | 0                | 0%         | \$0                  |                       |                                     |
| Subtotal Other Next Five Years (FY23-27)   |           | 0                | 0%         | \$0                  |                       |                                     |
| <b>Total Next Two Years (FY23-24)</b>      |           | <b>220</b>       | <b>18%</b> | <b>\$11,260,244</b>  |                       |                                     |
| <b>Total Next Five Years (FY23-27)</b>     |           | <b>471</b>       | <b>39%</b> | <b>\$24,692,347</b>  |                       |                                     |

**Check with MDE Geodatabase:**

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)-- aggregated by type and status.

**Notes**

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

**Article 4-202.1(j)(1)(i)2: Projected annual and 5-year costs for the county or municipality to meet the impervious surface restoration plan requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

| DESCRIPTION   | PREVIOUS YEAR<br>FY 2021 | CURRENT YEAR<br>FY 2022 | PROJECTED YEAR 1<br>FY 2023 | PROJECTED YEAR 2<br>FY 2024 | PROJECTED YEAR 3<br>FY 2025 | PROJECTED YEAR 4<br>FY 2026 | PROJECTED YEAR 5<br>FY 2027 | TOTAL <sup>4</sup>  |
|---|--------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|
| <b>Operating Expenditures (costs)</b>                     |                          |                         |                             |                             |                             |                             |                             |                     |
| Street Sweeping Program                                   |                          |                         |                             |                             |                             |                             |                             | \$0                 |
| Inlet Cleaning  |                          |                         |                             |                             |                             |                             |                             | \$0                 |
| IDDE  |                          |                         |                             |                             |                             |                             |                             | \$0                 |
| Support of Capital Projects                               |                          | \$1,291,712             | \$1,363,970                 | \$1,438,141                 | \$1,517,143                 | \$1,601,329                 | \$1,684,887                 | \$8,897,182         |
| Debt Service Payment <sup>1</sup>                         |                          | \$1,748,212             | \$2,139,050                 | \$2,278,450                 | \$2,543,210                 | \$2,766,010                 | \$3,094,600                 | \$14,569,532        |
| Other (please stipulate program expenditure) <sup>2</sup> | -                        | -                       | -                           | -                           | -                           | -                           | -                           | \$0                 |
| <b>Capital Expenditures (costs)<sup>3</sup></b>           |                          |                         |                             |                             |                             |                             |                             |                     |
| General Fund (Paygo)                                      |                          | \$543,774               | \$1,450,000                 | \$750,000                   | \$250,000                   | \$2,550,000                 | \$225,000                   | \$5,768,774         |
| WPR Fund (Paygo)  |                          |                         |                             |                             |                             |                             |                             | \$0                 |
| Municipalities  |                          |                         |                             |                             |                             |                             |                             | \$0                 |
| Debt Service  |                          | \$1,376,704             | \$2,240,000                 | \$8,350,000                 | \$6,050,000                 | \$4,950,000                 | \$3,400,000                 | \$26,366,704        |
| Grants & Partnerships                                     |                          | \$2,931,205             | \$31,000                    |                             |                             |                             |                             | \$2,962,205         |
| Other (please stipulate capital expenditure) <sup>2</sup> | -                        | -                       | -                           | -                           | -                           | -                           | -                           | \$0                 |
| Subtotal operation and paygo:                             | \$0                      | \$3,583,698             | \$4,953,020                 | \$4,466,591                 | \$4,310,353                 | \$6,917,339                 | \$5,004,487                 | \$29,235,488        |
| <b>Total expenditures:</b>                                | <b>\$0</b>               | <b>\$7,891,607</b>      | <b>\$7,224,020</b>          | <b>\$12,816,591</b>         | <b>\$10,360,353</b>         | <b>\$11,867,339</b>         | <b>\$8,404,487</b>          | <b>\$58,564,397</b> |

Total ISRP costs except debt service: \$43,994,865

Compare ISRP costs (except debt service) / total ISRP proposed actions for next five years: 1.781720669

Total capital expenditures: \$35,097,683

Compare total capital expenditures / total ISRP proposed actions capital costs for next five years: 1.42139923

**Check with MDE Geodatabase:**

The total current FY 2022 expenditure should be less than the combined total of the "OP\_cost" and "CAP\_Cost" fields in the fiscal analyses table of the geodatabase.

The total projected FY 2023 expenditure should be less than the combined total of the "OP\_budget" and "CAP\_budget" fields in the fiscal analyses table of the geodatabase.

**Notes:**

1. Debt service payments include debt service used to support capital projects from current and previous permit.
2. Insert additional rows as necessary.
3. Capital costs shown in FY 2021 include costs in FY 2021 and previous years, spent on capital projects attributed to the current permit. Total permit cycle includes the previous year.
4. Total cycle includes FY 2021 (costs associated with capital projects attributed to the current permit) to FY 2026

Article 4-202.1(j)(1)(i)3: Projected annual and 5-year revenues or other funds that will be used to meet the cost for the county or municipality to meet the impervious surface restoration plan requirements under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

| DESCRIPTION   | PAST UP THRU FY 21 | CURRENT YEAR FY 22 | PROJECTED YEAR 1 FY 23 | PROJECTED YEAR 2 FY 24 | PROJECTED YEAR 3 FY 25 | PROJECTED YEAR 4 FY 26 | PROJECTED YEAR 5 FY 27 | TOTAL NEXT 2-YEARS FY 22-24 <sup>1</sup> | TOTAL        |
|---|--------------------|--------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|--------------|
| Annual Revenue <sup>2</sup> Appropriated for ISRP   |                    | \$7,265,352        | \$16,015,082           | \$7,614,998            | \$7,917,963            | \$8,357,349            | \$8,903,987            | \$23,630,080                             | \$56,074,731 |
| Annual Costs towards ISRP <sup>3</sup>              | \$0                | \$7,891,607        | \$7,224,020            | \$12,816,591           | \$10,360,353           | \$11,867,339           | \$8,404,487            | \$20,040,611                             | \$58,564,397 |
| <b>Compare revenue appropriated / annual costs:</b> |                    |                    |                        |                        |                        |                        |                        | <b>118%</b>                              |              |
| <b>Reporting Criteria:</b>                          |                    |                    |                        |                        |                        |                        |                        | <b>100%</b>                              |              |

Note

- Article 4-202.1(j)(2): Demonstration that county or municipality has sufficient funding in the current fiscal year and subsequent fiscal year budgets to meet its estimated cost for the 2-year period immediately following the filing date of the FAP. Note that the appropriations and expenditures include time period up to FY 22.
- Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)). Note that budget appropriations have only been approved by governing bodies through FY 23 at the time of FAP reporting.
- See table of ISRP Cost.

**Article 4-202.1(j)(1)(i)4: Any sources of funds that will be utilized by the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

| SOURCE   | PAST UP THRU <sup>1</sup><br>FY 21 | CURRENT YEAR<br>FY 22 | PROJECTED YEAR 1<br>FY 23 | PROJECTED YEAR 2<br>FY 24 | PROJECTED YEAR 3<br>FY 25 | PROJECTED YEAR 4<br>FY 26 | PROJECTED YEAR 5<br>FY 27 | TOTAL                |
|--|------------------------------------|-----------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------|
| <b>Paygo Sources</b>   |                                    |                       |                           |                           |                           |                           |                           |                      |
| Stormwater Remediation Fees (WPR Fund)   |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| Miscellaneous Fees (WPR Fund)  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| General Fund   |                                    |                       | \$ 2,716,323              |                           |                           |                           |                           | \$ 2,716,323         |
| Other Funds 1 (Property Tax)   |                                    | \$ 2,667,545          | \$ 3,379,140              | \$ 3,586,191              | \$ 3,922,773              | \$ 4,222,179              | \$ 4,627,117              | \$ 22,404,945        |
| Other Funds 2 (Municipalities)   |                                    | \$ 114,299            | \$ 122,600                | \$ 129,400                | \$ 136,580                | \$ 144,160                | \$ 151,370                | \$ 798,409           |
| Other Funds 3 (Interest)   |                                    | \$ 3,192              | \$ 1,280                  | \$ 1,000                  | \$ 1,000                  | \$ 1,000                  | \$ 1,000                  | \$ 8,472             |
| Other Funds 4 (Developer Contribution)   |                                    | \$ 172,407            | \$ 172,407                | \$ 172,407                |                           |                           |                           | \$ 517,221           |
| Other Funds 5 (Municipal - Capital)  |                                    |                       | \$ 331,290                | \$ 347,850                | \$ 365,850                | \$ 383,510                | \$ 402,680                |                      |
| Other Funds 6 (Special Revenue Transfer)   |                                    |                       | \$ 264,710                | \$ 278,150                | \$ 291,760                | \$ 306,500                | \$ 321,820                |                      |
| Other Fund 7 (General Fund Transfer)   |                                    |                       | \$ 104,673                |                           |                           |                           |                           |                      |
| Subtotal Paygo Sources   | \$ -                               | \$ 2,957,443          | \$ 7,092,423              | \$ 4,514,998              | \$ 4,717,963              | \$ 5,057,349              | \$ 5,503,987              | \$ 26,445,370        |
| <b>Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2021).</b> |                                    |                       |                           |                           |                           |                           |                           |                      |
| County Transportation Bonds  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| General Obligation Bonds   |                                    | \$ 1,376,704          | \$ 8,891,659              | \$ 3,100,000              | \$ 3,200,000              | \$ 3,300,000              | \$ 3,400,000              | \$ 23,268,363        |
| Revenue (Utility) Bonds  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| State Revolving Loan Fund  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| Public-private partnership (debt service)  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| Subtotal Debt Service  | \$ -                               | \$ 1,376,704          | \$ 8,891,659              | \$ 3,100,000              | \$ 3,200,000              | \$ 3,300,000              | \$ 3,400,000              | \$ 23,268,363        |
| <b>Grants and Partnerships (no payment is expected)</b>  |                                    |                       |                           |                           |                           |                           |                           |                      |
| State funded grants  |                                    | \$ 2,931,205          | \$ 31,000                 |                           |                           |                           |                           | \$ 2,962,205         |
| Federal funded grants  |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| Public-private partnership (matched grant)   |                                    |                       |                           |                           |                           |                           |                           | \$ -                 |
| Subtotal Grants and Partnerships   | \$ -                               | \$ 2,931,205          | \$ 31,000                 | \$ -                      | \$ -                      | \$ -                      | \$ -                      | \$ 2,962,205         |
| <b>Total Annual Sources of Funds</b>   | <b>\$ -</b>                        | <b>\$ 7,265,352</b>   | <b>\$ 16,015,082</b>      | <b>\$ 7,614,998</b>       | <b>\$ 7,917,963</b>       | <b>\$ 8,357,349</b>       | <b>\$ 8,903,987</b>       | <b>\$ 56,074,731</b> |
| <b>Percent of Funds Directed Toward ISRP</b>   |                                    |                       |                           |                           |                           |                           |                           |                      |

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: **92%**  
 Compare total ISRP expenditures / total permit term annual sources of funds: **104%**

\* WPR Fund: Watershed Protection and Restoration Fund.

**Check with MDE Geodatabase:**

The total sources related to WPR Funds in Current FY 22 should march the "WPR\_Fund" field of the geodatabase.

**Note**

1. Previous accumulated revenue should be specifically designated for use for this current permit.

**Article 4-202.1(j)(1)(i)5: Specific actions and expenditures that the county or municipality implemented in the previous fiscal years to meet its impervious surface restoration plan requirements under its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

| REST BMP ID   | REST BMP TYPE <sup>1</sup> | BMP CLASS <sup>1</sup> | NUM BMP  | IMPERVIOUS ACRES | % ISRP COMPLETE | IMPLEMENTATION COST | BUILT DATE | IMPLEMENTATION STATUS | GENERAL COMMENTS |
|---|----------------------------|------------------------|----------|------------------|-----------------|---------------------|------------|-----------------------|------------------|
| <b>Obligations from Previous Permit That Must Be Continued or Met</b>           |                            |                        |          | <b>17.00</b>     |                 |                     |            |                       |                  |
| <b>Operational Programs<sup>2,3</sup></b>                                       |                            |                        |          |                  |                 |                     |            |                       |                  |
|   |                            |                        |          |                  | 0%              |                     |            |                       |                  |
| <b>Subtotal Operations<sup>4</sup></b>  |                            |                        | 0        | 0                | 0%              | \$0                 |            |                       |                  |
| <b>Capital Projects (Completed to Replace Annual Obligations)<sup>2,3</sup></b> |                            |                        |          |                  |                 |                     |            |                       |                  |
| CR18RST000005   | FSND                       | S                      | 2        | 19.61            | 115%            | \$1,085,397         |            |                       | Shiloh Middle    |
| <b>Subtotal Capital</b>   |                            |                        | 2        | 20               | 115%            | \$1,085,397         |            |                       |                  |
| <b>Other (Completed to Replace Annual Obligations)<sup>2,3</sup></b>            |                            |                        |          |                  |                 |                     |            |                       |                  |
|   |                            |                        |          |                  | 0%              |                     |            |                       |                  |
| <b>Subtotal Other</b>   |                            |                        | 0        | 0                | 0%              | \$0                 |            |                       |                  |
| <b>Total Continued Obligations from Previous Permit</b>                         |                            |                        | <b>2</b> | <b>20</b>        | <b>115%</b>     | <b>\$1,085,397</b>  |            |                       |                  |

| Restoration for the New Permit      |      |   |    |        |                |              |           |          |  |  |
|-------------------------------------|------|---|----|--------|----------------|--------------|-----------|----------|--|--|
|                                     |      |   |    |        | <b>1217.00</b> |              |           |          |  |  |
| Operational Programs <sup>3,5</sup> |      |   |    |        |                |              |           |          |  |  |
| Multiple                            | CBC  | A | 9  | 5.96   | 0%             |              |           | COMPLETE | Inlet Cleaning (Increase over last permit)             |  |
| Multiple                            | VSS  | A | 11 | 10.70  | 1%             |              |           | COMPLETE | Advanced Street Sweeping (Increase over last permit)   |  |
| Multiple                            | MSS  | A | 2  | 0.02   | 0%             |              |           | COMPLETE | Mechanical Street Sweeping (Increase over last permit) |  |
| Subtotal Operations <sup>4</sup>    |      |   | 22 | 0      | 0%             | \$0          |           |          |  |  |
| Capital Projects <sup>3,5</sup>     |      |   |    |        |                |              |           |          |  |  |
| CR21RST000001                       | MSGW | S | 1  | 2.05   | 0%             | \$111,108    | 7/24/2020 | Complete | Benjamins Claim - Jacobs                               |  |
| CR16RST000016                       | PWED | S | 1  | 91.8   | 8%             | \$3,507,367  | 9/25/2020 | Complete | Roberts Mill   |  |
| CR16RST000025                       | FSND | S | 1  | 16.41  | 1%             | \$799,844    | 5/24/2021 | Complete | Greens of Westminster                                  |  |
| CR16RST000013                       | PWED | S | 1  | 93.64  | 8%             | \$3,169,828  | 9/15/2021 | Complete | Langdon (Jantz)  |  |
| CR18RST000006                       | PWED | S | 1  | 106.09 | 9%             | \$2,670,400  | 7/28/2021 | Complete | Willow Pond Retrofit                                   |  |
| CR19ALN000003                       | STRE | A | 1  | 28.2   | 2%             | \$600,000    | 7/28/2021 | Complete | Willow Pond SR   |  |
| CR19ALN000005                       | STRE | A | 1  | 279.31 | 23%            | \$2,013,774  | 5/23/2022 | Complete | Mayberry SR  |  |
| CR16RST000022                       | PWED | S | 1  | 46.14  | 4%             | \$1,276,264  | 5/25/2022 | Complete | Trevanion Terrace Retrofit                             |  |
| CR18RST000007                       | FSND | S | 1  | 21.03  | 2%             | \$761,645    | 3/3/2020  | Complete | Woodsyde One Retrofit                                  |  |
| CR19ALN000004                       | STRE | A | 1  | 59.57  | 5%             | \$700,000    | 3/31/2022 | Complete | Woodsyde SR  |  |
| CR18RST000008                       | FSND | S | 1  | 1.17   | 0%             | \$100,000    | 3/3/2020  | Complete | Woodsyde Two Retrofit                                  |  |
| Multiple                            | RFP  | A | 1  | 36.1   | 3%             | \$190,339    | 6/30/2021 | Complete | 2021 Tree Plantings                                    |  |
| Multiple                            | FPU  | A | 1  | 29.6   | 2%             | \$212,571    | 6/30/2021 | Complete | 2021 Tree Plantings                                    |  |
| Multiple                            | RFP  | A | 1  | 3.66   | 0%             | \$7,949      | 6/30/2022 | Complete | 2022 Tree Plantings                                    |  |
| Multiple                            | FPU  | A | 1  | 6.73   | 1%             | \$47,601     | 6/30/2022 | Complete | 2022 Tree Plantings                                    |  |
| Subtotal Capital                    |      |   | 15 | 821.5  | 68%            | \$16,168,690 |           |          |  |  |

| Other <sup>3,5</sup>                |      |   |            |            |            |                     |  |          |                                       |
|-------------------------------------|------|---|------------|------------|------------|---------------------|--|----------|---------------------------------------|
| CR20APY000021                       | IMPP | A | 1          | 0.22       | 0%         | \$0                 |  | Complete | Manchester Impervious Removal         |
| Multiple                            | FCB  | A | 27         | 17.9       | 1%         | \$0                 |  | Complete | Forest Conservation Buffer            |
| Multiple                            | RCL  | A | 21         | 8.3        | 0%         | \$0                 |  | Complete | Riparian Conservation Landscaping     |
| Multiple                            | NCL  | A | 20         | 7.43       | 0%         | \$0                 |  | Complete | Non-Riparian Conservation Landscaping |
| Multiple                            | SEPD | A | 47         | 7.52       | 0%         | \$0                 |  | Complete | Septic Upgrades                       |
| Subtotal Other                      |      |   | 116        | 41         | 3%         | \$0                 |  |          |                                       |
| <b>Total Additional Restoration</b> |      |   | <b>153</b> | <b>863</b> | <b>71%</b> | <b>\$16,168,690</b> |  |          |                                       |

**Check with MDE Geodatabase:**

Rest BMP ID, type, class, number of BMPs, impervious acres, built date, implementation cost should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)-- aggregated by type and status.

**Notes:**

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

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| Code Description                   | Code | Class |
|------------------------------------|------|-------|
| <b>Ponds</b>                       |      |       |
| Micro-Pool Extended Detention Pond | PMED | S     |
| Multiple Pond                      | PMPS | S     |
| Pocket Pond                        | PPKT | S     |
| Wet Extended Detention Pond        | PWED | S     |
| Wet Pond                           | PWET | S     |
| <b>Wetlands</b>                    |      |       |
| ED Shallow Wetland                 | WEDW | S     |
| Pocket Wetland                     | WPKT | S     |
| Pond Wetland System                | WPWS | S     |
| Shallow Marsh                      | WSHW | S     |
| <b>Infiltration</b>                |      |       |
| Infiltration Basin                 | IBAS | S     |
| Infiltration Trench                | ITRN | S     |
| Landscape Infiltration             | MILS | E     |
| Infiltration Berm                  | MIBR | E     |
| Dry Well                           | MIDW | E     |
| <b>Filtering Systems</b>           |      |       |
| Surface Sand Filter                | FSND | S     |
| Underground Filter                 | FUND | S     |
| Perimeter Filter                   | FPER | S     |
| Organic Filter                     | FORG | S     |
| Pocket Filter                      | FPKT | S     |
| Bioretention                       | FBIO | S     |
| Submerged Gravel Wetland           | MSGW | E     |
| Micro-Bioretention                 | MMBR | E     |
| Rain Garden                        | MRNG | E     |
| Enhanced Filter                    | MENF | E     |
| <b>Open Channel Systems</b>        |      |       |
| Dry Swale                          | ODSW | S     |
| Wet Swale                          | OWSW | S     |
| Bio-Swale                          | MSWB | E     |
| Grass Swale                        | MSWG | E     |
| Wet Swale                          | MSWW | E     |
| <b>Alternative Surfaces</b>        |      |       |
| Green Roof - Extensive             | AGRE | E     |
| Green Roof - Intensive             | AGRI | E     |
| Permeable Pavement                 | APRP | E     |
| Reinforced Turf                    | ARTF | E     |
| <b>Nonstructural Techniques</b>    |      |       |
| Non-Rooftop Disconnect             | NDNR | E     |
| Rooftop Disconnect                 | NDRR | E     |
| Sheetflow to Conservation Area     | NSCA | E     |
| <b>Other Systems</b>               |      |       |
| Rainwater Harvesting               | MRWH | E     |

| <b>Other Practices</b>   |      |   |
|--|------|---|
| Extended Detention Structure, Dry                                      | XDED | S |
| Detention Structure (Dry Pond)   | XDPD | S |
| Flood Management Area  | XFLD | S |
| Oil Grit separator   | XOGS | S |
| Other  | OTH  |   |
| <b>Alternative BMP</b>   |      |   |
| Mechanical Street Sweeping   | MSS  | A |
| Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)   | VSS  | A |
| Catch Basin Cleaning   | CBC  | A |
| Storm Drain Vacuuming (i.e., Storm Drain Cleaning)                     | SDV  | A |
| Stream Restoration   | STRE | A |
| Outfall Stabilization  | OUT  | A |
| Shoreline Management   | SHST | A |
| Septic Connections to WWTP   | SEPC | A |
| Septic Denitrification   | SEPD | A |
| Septic Pumping   | SEPP | A |
| Elimination of Discovered Nutrient Discharges from Grey Infrastructure | DGI  | A |
| Floating Treatment Wetlands  | XFTW | A |
| Impervious Surface Reduction (i.e., impervious to pervious)            | IMPP | A |
| Impervious Surface to Forest (i.e., IMPP + FPU)                        | IMPF | A |
| Forestation on Pervious Urban (i.e., Forest Planting)                  | FPU  | A |
| Conservation Landscaping   | CLTM | A |
| Forest Conservation  | FCO  | A |
| Riparian Conservation Landscaping                                      | RCL  | A |
| Riparian Forest Planting   | RFP  | A |
| Street Trees   | STCI | A |
| Urban Soil Restoration (Compacted Pervious Surfaces)                   | USRP | A |
| Urban Soil Restoration (Removed Impervious Surfaces)                   | USRI | A |
| Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)       | UTC  | A |
| Dry Channel Regenerative Step Pool Stormwater Conveyance System        | SPSD | A |