

## Agenda

## 1 <br> Background

Financial Plan Development

3
Stormwater Fee Structure Evaluation

## City of Annapolis Stormwater System

- 58 miles of stormwater mains
- 2,500 catch basins / inlets
- 2,000 manholes
- 41 stormwater outfalls
- 307 miles of roadway curb and gutters



## Background

In April of 2018, the City received its new Phase II MS4 permit

Stantec completed initial stormwater fee study in fall of 2018 and recommended:

- Increase in stormwater fees of $2 \%$ for FY20
- Consideration of modifications to fee structure

City increased stormwater fees for FY20 and determined that more analysis was required prior to implementing a modified fee structure

## Scope of the Study

## Financial Plan Development

- Examine the current and forecast the future cost of providing stormwater service in the City
- Evaluate the sufficiency of the Utility's existing revenues given updates in operational and capital spending plans
- Develop a financial plan including adjustments to stormwater fees to meet the funding requirements of the system


## Stormwater Fee Structure Analysis

- Evaluate the City's updated impervious area data
- Identify alternative fee structures for consideration
- Assist City with development of new fee structure



## Financial Plan Development

## Revenue Requirements:

- Expenses based on FY 20 and FY21 budget, and escalated on line item level based on cost indices and staff input
- Capital improvement plan includes MS4 compliance projects and system retrofit projects from the WIP plus additional projects from the City.


## Revenue Forecast:

- Development of revenue forecast based on existing stormwater fees and customer base


## Evaluate Key Metrics:

- Ability to maintain minimum reserve balances
- Ability to meet debt service requirements


## 2021 Stormwater Revenue Requirements



## Revenue Sufficiency

| (\$ Million) | FY 21 | FY 22 | FY 23 | FY 24 | FY 25 | FY 26 | FY 27 | FY 28 | FY 29 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Operating Expenses | \$0.87 | \$0.89 | \$1.12 | \$1.15 | \$1.17 | \$1.20 | \$1.22 | \$1.25 | \$1.27 |
| Cash Funded Capital* | 1.50 | 4.65 | 1.22 | 1.26 | 1.29 | 1.33 | 1.37 | 1.41 | 1.46 |
| Existing Debt Service | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 |
| Total Capital Expenses | \$1.53 | \$4.68 | \$1.25 | \$1.28 | \$1.32 | \$1.35 | \$1.39 | \$1.43 | \$1.47 |
| Total Stormwater Expenses | \$2.39 | \$5.58 | \$2.37 | \$2.42 | \$2.49 | \$2.55 | \$2.61 | \$2.67 | \$2.74 |
| Revenues from Existing <br> Stormwater Fees | \$1.53 | \$1.53 | \$1.53 | \$1.53 | \$1.53 | \$1.53 | \$1.53 | \$1.53 | \$1.53 |

## Stormwater Fund Forecast - Business

 as Usual

- No fee increases
- Cash funding all projects


## Recommended Capital Funding



## Financial Plan Considerations

- The City will need to continue to escalate stormwater fees to comply with the new MS4 permit.
- Magnitude of adjustments

1) Capital funding plan(cash vs. bond)
2) Capital execution schedule

- A10-year period and a cash/bond split results in annual increases of $5 \%$.

|  | FY 21 | FY 22 | FY 23 | FY 24 |
| :--- | :---: | :---: | :---: | :---: |
| Stormwater Fee Increase | $5.0 \%$ | $5.0 \%$ | $5.0 \%$ | $5.0 \%$ |



## Design of Stormwater Fees



Source: Lowimpactdevelopment.org

Increasing Impervious Surface = Increasing Runoff Generated

Stormwater fees typically based on impervious area as it reflects potential use of and contribution to the system

## Current Stormwater Fee Structure

## Residential

Quarterly Stormwater Fees

Single Family, Condos, Apartments*
\$15.30
*Charge per unit (i.e., 1 apartment unit \$15.30, single family home \$15.30)

| Non-Residential | Quarterly Stormwater Fees |
| :--- | :---: |
| $0-5,000$ square feet of impervious area | $\$ 61.20$ |
| $5,001-10,000$ square feet of impervious area | $\$ 122.40$ |
| Over 10,000 square feet of impervious area | $\$ 198.90$ |

## Current Structure Observations

## Residential

- While it is common to charge single family residential all the same stormwater fee, it is less common for multi-family
- Equity concerns with an apartment or condo paying the same as single family


## Non-Residential

- Current structure effectively caps the stormwater fee for non-residential property
- Property with 11,000 sq. ft. of impervious pays same as property with $110,000 \mathrm{sq}$. ft.


## Alternative Structures Considered

## Alternative 1 - Single Family Residential and Measured Impervious

- Single family residential all one fee
- Usage actual measured impervious for all other property types
- Common approach but data intensive and requires highly accurate impervious area measurements


## Alternative 2 - Modified Current Approach

- Single family residential all one fee based on average impervious
- Multi-family residential all one fee (based on ratio of impervious for multi-family compared to single family)
- Non-residential based on appropriate tiers of impervious area


## Recommended Fee Structure

Alternative 2 - Modified current approach recommended for implementation in FY21

| Residential | Median Impervious <br> Area $(\mathrm{sq} . \mathrm{ft})$ | ERUs |
| :--- | :---: | :---: |
| Single Family | 2,100 | 1.0 |
| Multi-Family | 1,050 | 0.5 |


| Non-Residential (Impervious Area) | Median Impervious <br> Area (sq. ft) | ERUs |
| :--- | :---: | :---: |
| Tier 1: $0-5,000$ sq. ft. | 2,100 | 1.0 |
| Tier 2: 5,001-25,000 sq. ft. | 10,500 | 5.0 |
| Tier 3: $25,001-80,000$ sq. ft. | 44,100 | 21.0 |
| Over 80,000 sq. ft | 136,500 | 65.0 |

## Billing Units

| Property Classification | Current Billable <br> Units | Alfernative Structure <br> ERUs |
| :--- | :---: | :---: |
| Residential | 10,068 | 10,068 |
| Multi-Family Residential | 6,416 | 3,206 |
| Non-Residential | 7,771 | 7,970 |
| Total | $\mathbf{2 4 , 2 5 5}$ | $\mathbf{2 1 , 2 2 4}$ |

Structure change results in a modest reduction in the number of billable units due to change in multi-family approach

## FY 21 Fee Recommendation

| Residential | FY 21 |
| :---: | :---: |
| Single Family | \$19.00 |
| Multi-Family (per unit) | \$9.50 |
| Non-Residential (Impervious Area) | FY 21 |
| Tier 1: 0-5,000 sq. ft. | \$19.00 |
| Tier 2: 5,001-10,000 sq. ft. | \$95.00 |
| Tier 3: 10,001-80,000 sq. ft. | \$399.00 |
| Over $\mathbf{8 0 , 0 0 0}$ sq. ft | \$1,235.00 |

## Structure Change Bill Impacts

| Property Type | Total Properties | Average Quarterly Bill - Current Structure | Average Quarterly Bill - Alternative Strucłure | Quarterly Change |
| :---: | :---: | :---: | :---: | :---: |
| Apartment | 501 | \$148.76 | \$92.00 | (\$56.76) |
| Church | 32 | \$158.26 | \$219.19 | \$60.93 |
| Condominium | 96 | \$249.26 | \$154.47 | (\$94.79) |
| Gas Station | 16 | \$194.12 | \$169.14 | (\$24.98) |
| Govt - County | 5 | \$198.90 | \$501.67 | \$302.77 |
| Govt-State / Fed / Other | 21 | \$171.94 | \$377.45 | \$205.51 |
| Group Home | 20 | \$15.30 | \$19.27 | \$3.97 |
| Hotels \& Motels | 8 | \$145.35 | \$292.66 | \$147.31 |
| Housing Authority | 79 | \$202.77 | \$101.79 | (\$100.98) |
| Mixed Use | 16 | \$88.93 | \$38.00 | (\$50.93) |
| Offices | 174 | \$118.18 | \$130.35 | \$12.17 |
| Restaurant | 65 | \$99.80 | \$84.05 | (\$15.75) |
| Retail | 203 | \$111.62 | \$135.80 | \$24.18 |
| School - Not Public | 6 | \$173.40 | \$523.50 | \$350.10 |
| Schools - County | 9 | \$198.90 | \$826.37 | \$627.47 |
| Single Family Residential | 10,062 | \$15.30 | \$19.00 | \$3.70 |



