



Stormwater Management Program

Steelton Borough
and
Herbert, Rowland & Grubic, Inc.



May 11, 2022

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Agenda

1. Stormwater Overview
2. Program Budget
3. Funding Source for Program
4. Credits and Appeals
5. What's Next?
6. Q&A Session



HRG
Herbert, Rowland & Grubic, Inc.
Engineering & Related Services

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What is Stormwater?

Water that originates from precipitation, including rain, snow, and ice melt.

- Can carry pollutants (sediment, nitrogen, phosphorus, etc.)
- Is transported through storm sewers and surface conveyances (channel, swale, ditch) into streams, creeks and rivers.
- Runoff from **impervious** ground surfaces is the principal concern.



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MS4 (Municipal Separate Storm Sewer System)

Chesapeake Bay Agreement of 1983

- ☐ New Pollutant Reduction Goals Set in 2000 to be achieved by **2023**
 - ☐ **10% Sediment Reduction**
 - ☐ **5% Total Phosphorus**
 - ☐ **3% Total Nitrogen**

MS4 Municipalities Must Meet This Goal



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MS4 Minimum Control Measures (MCMs)

MCM 1: Public Education

Raise awareness about Best Management Practices (BMPs) via advertising, website

MCM 2: Public Outreach

Promotional events and advertising materials

MCM 3: Illicit Discharge

Mapping; Outfall inspections

Illicit discharge reporting

MCM 4: Construction

Stormwater management on developing/redeveloping properties
(regulated by Township ordinance)

MCM 5: Post-construction

BMP maintenance and inspection

MCM 6: Good Housekeeping

Document completion and retention



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Increased Regulation of MS4 Communities

- **Unfunded Federal Mandate**
- **Broad permit requirements (six MCMs)**
- **5-years to Complete Pollution Reduction Projects**
- **Likely further requirements in 2023 permit**

E. The permittee shall develop and maintain adequate legal authorities and shall maintain adequate funding and staffing to implement this General Permit, including the SWMP contained in Part C I of this General Permit.



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Municipal Stormwater Challenges

- **Challenge #1: Polluted streams**
- **Challenge #2: Increased regulations: must implement PRP**
- **Challenge #3: Aging infrastructure**
 - \$9.2M in known infrastructure needs
 - Some very old; need to assess condition,
 - Will identify additional infrastructure needs
 - Maintenance limited by budget
- **Challenge #4: Years of development = more runoff and infrastructure**
- **Challenge #5: Funding**
 - Historically, stormwater operation and maintenance funded through tax revenues

~12 miles of pipe + open channels;
structures, outfalls, basins



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Program Costs

Developed with Stakeholder Advisory Committee

Function	Average Annual Cost
Operation & Maintenance*	\$0.5M
Capital Improvements	\$0.5M
Total Annual Budget	\$1M



* Includes allowance for delinquencies



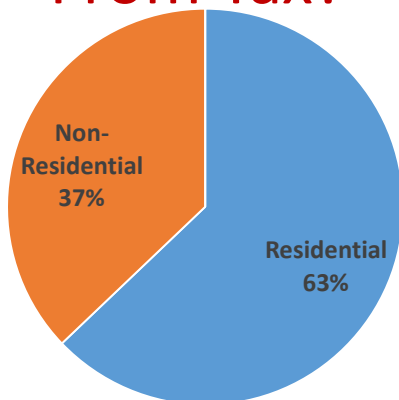
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How to fund the Program?



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How to fund the Program? From Tax?



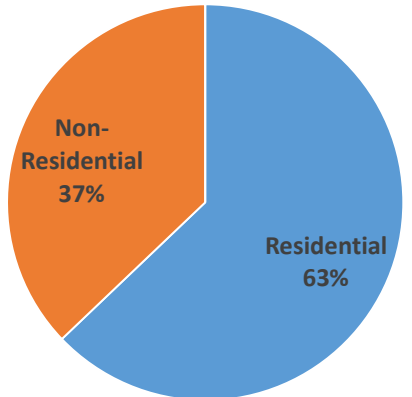
Share of Taxable Assessed Value



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How to fund the Program?

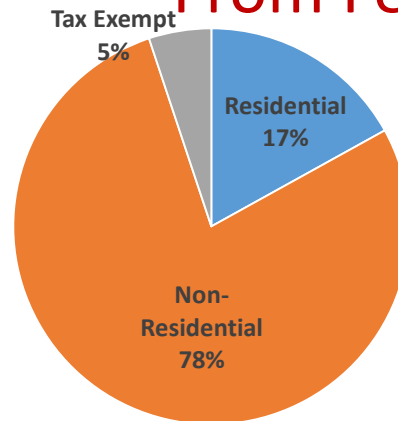
From Tax?



Share of Taxable Assessed Value



From Fee?



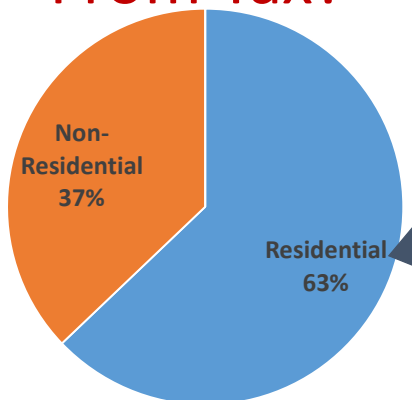
Share of Impervious Area



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How to fund the Program?

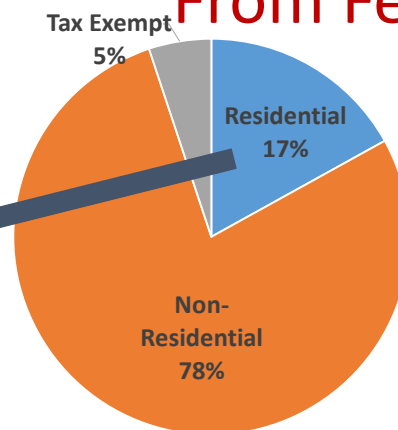
From Tax?



Share of Taxable Assessed Value



From Fee?



Share of Impervious Area



**Residential pays
over twice
as much
if by tax**

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Equitability of Fee vs Tax

- Stormwater runs off from Impervious Area on Tax-Exempt Parcels
- Property Value does not cause stormwater runoff



Post Office



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Stakeholder Advisory Committee recommends
Cover Program Costs by Tiered Fee Structure
based on Impervious Area



IA = Impervious Area (compiled from aerial photography)



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Cover Program Costs by Tiered Fee Structure

	IA Range (SF)	Fee before Credits (stated as monthly rate)
Tier 0	Undeveloped Parcel <300 sf IA	\$0
Tier 1	Average IA Properties 300-1999 sf IA	\$8.10
Tier 2	Medium IA Properties 2000-3999 sf IA	\$17.00
Tier 3	Large IA Properties 4000-5999 sf IA	\$30.10
Tier 4	Largest IA Properties 6000+ sf IA	\$6.40 per 1000 sf IA

Rate Paid by
Average
Residential
Property Owner



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Owner Can Apply for Credits to Lower Fee

- Structural BMP [Rate/Volume Reductions; Water Quality](#)
- NPDES Permit Credit [Support MS4 via separate NPDES Permit](#)
- Stormwater Partnership Credit [Opportunity for cooperation](#)



Additional information on credits can be found in the Credit Manual
Will be available at the Borough Building or Borough Website



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Credits and Appeals Process

- **Application by Property Owner** (with documentation and fee, if applicable)
 - Review by Borough
 - O & M Agreement (ensure long term benefit to program)
 - Credit applied to next billing cycle



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What's Next?

- Steelton Stormwater Authority holds initial meetings in Summer 2022
- First bills to be mailed in Late 2022
- Fee will be on Sanitary Bill if applicable; otherwise a new bill will be issued
- Begin Projects



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Questions?