Surprise Stormwater Utility

Water Resource Management
Department
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Agenda

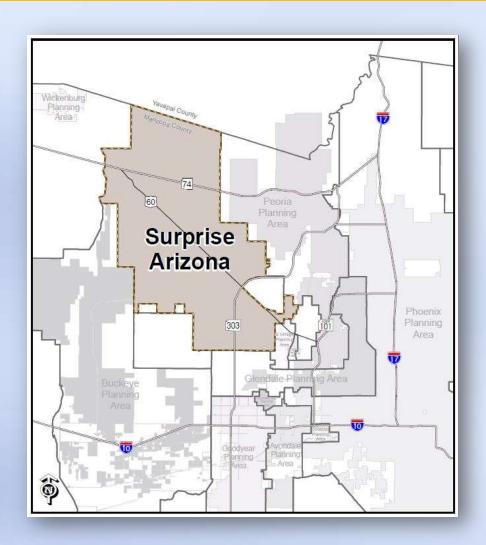


- Stormwater Background
- Funding Options
- Financial Analysis Results
- Comparative rates
- Next Steps

City of Surprise



- Municipal planning area 300 square miles
- Current City boundary
 72 square miles,
 mostly in the Agua
 Fria Watershed



City Stormwater System



- Stormwater conveyance is provided by
 - Streets
 - Pipes
 - Box culverts
 - Open channels
 - Other conveyance
- Stormwater is conveyed to
 - Retention basins
 - Parks
 - Washes
- The system is made up of
 - 605 miles of streets
 - 143+ miles of storm drains, culverts, & other facilities



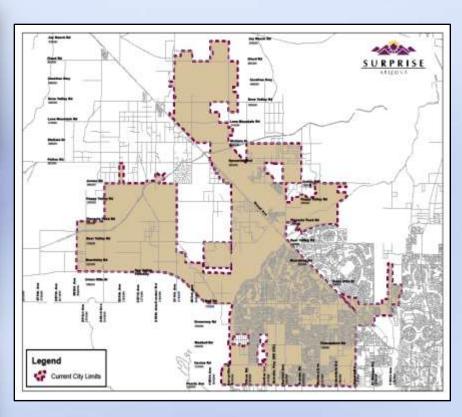
Stormwater Problem Areas











Localized Flooding





Water Quality Regulations



- 1972 Clean Water Act
 - National (EPA) Pollutant Discharge Elimination System (NPDES) Permit Requirements
 - Administered by the AZ Department of Environmental Quality (ADEQ)
 - AZPDES requirements as a Municipal Separate Storm Sewer System (MS4)
 - City Stormwater Management Plan (SWMP)
- City Ordinance 2012-06, adopted 5/8/2012, resulted in
 - City Code Section Chapter 58 (current stormwater program)

Funding Options Evaluation



	Suffici	ent \$	Fair &	\$ Dedicated to	
	Operations	Capital	Equitable \$	Stormwater	Reliable \$
General Fund					
Special Assessments		•	•		•
Special Fees	•		•		
Impact Fees	•	•	•		•
Conventional Debt			•		
Special Grants & Loans	•	•	•		
Utility Rates			•		

■ = Yes
■ = No
■ = Partial

The Utility Concept

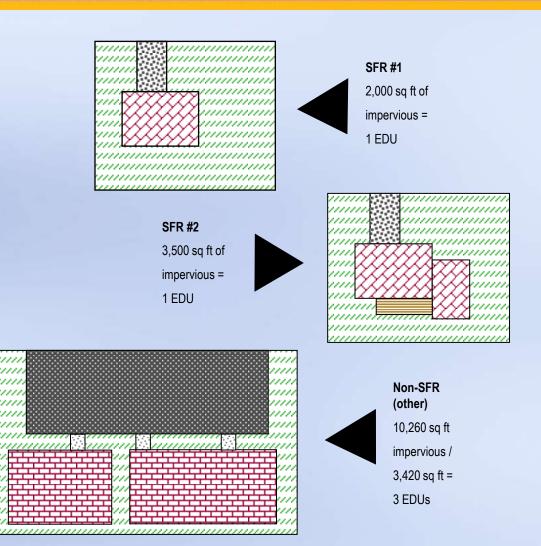


- Stand-alone entity within City government (usually an enterprise or special revenue fund)
- Financially self-sufficient
- Revenues reliable; dedicated for stormwater management
- Revenues can secure debt
- Well suited to meet regulatory pressures (e.g., NPDES)
- Accountable to public (reporting requirements)
- Equitable cost recovery (rate structure)

Proposed Rate Structure



- \$X.XX per Equivalent Dwelling Unit (EDU)
- One EDU = 3,420 square feet of impervious surface area
 - SFRs: One EDU each
 - Non-SFRs: impervious area / 3,420 s.f. = # of EDUs
 - Agriculture: same as Non-SFRs plus chargeable pervious area charged at 10%



Measuring Impervious Area





Key Financial Assumptions



- Study period FY2016 FY2026
- Annual customer growth: 271 new EDUs per year (0.31%)
- Annual cost escalation

General: 3.00%

Construction: 3.16%

Labor: 3.00%

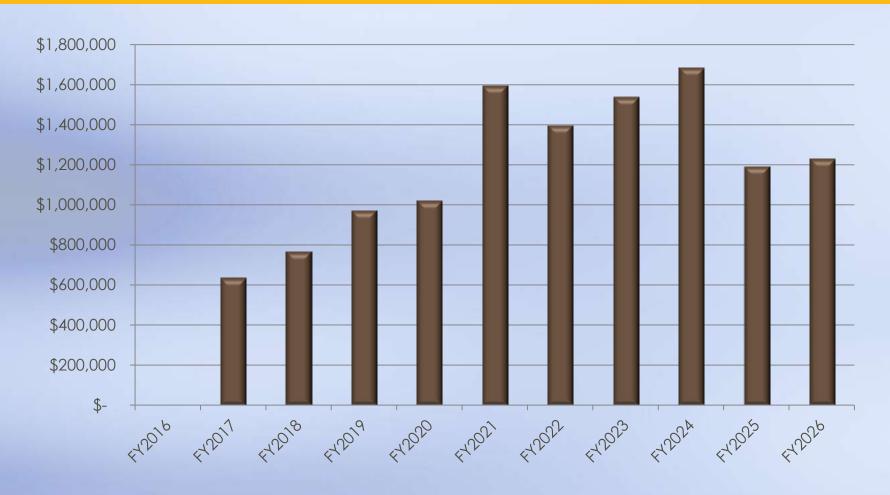
Benefits: 3.00%

Fiscal policy targets

- Operating fund balance: 60 days of budgeted operating expenses (\$157K in 2016)
- Capital fund balance: 2.00% of capital assets (assumed \$200K in 2016)
- Most future operational needs budgeted to begin in FY2016
 - Stormwater operator and stormwater inspector expenses begin in FY2018

Summary of Capital Needs

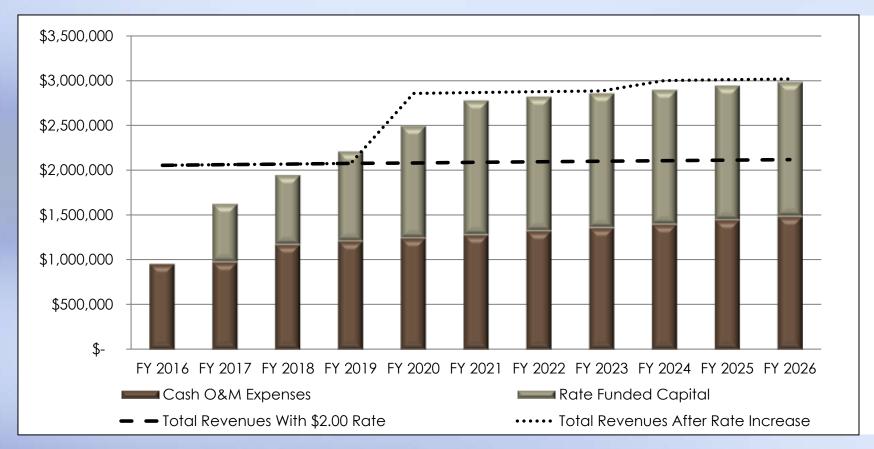




- Capital costs through FY2026 total \$12.05 million
- All costs are planned to be rate funded (no debt)

Financial Analysis Summary





Stormwater Rates	FY	2016	FY	2017	FY	2018	FY	2019	F	Y 2020	FY	2021	F۱	2022	FY	2023	FY	2024	F١	2025	FY	2026
Proposed Increases				0.00%		0.00%		0.00%		37.50%		0.00%		0.00%		0.00%		3.75%		0.00%		0.00%
Monthly Rate per EDU	\$	2.00	\$	2.00	\$	2.00	\$	2.00	\$	2.75	\$	2.75	\$	2.75	\$	2.75	\$	2.85	\$	2.85	\$	2.85
Change from Previous Year			\$	-	\$	-	\$	-	\$	0.75	\$	-	\$	1	\$	-	\$	0.10	\$	1	\$	-

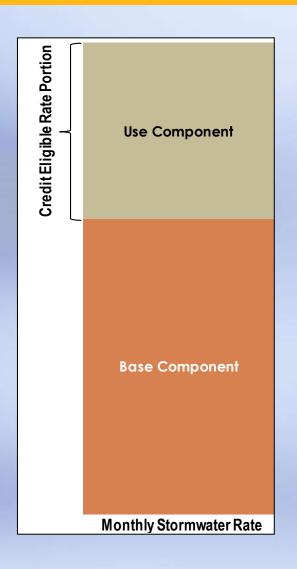
Surprise Stormwater Utility



RATE STRUCTURE											
<u>Classification</u>	<u>Rate</u>										
Single Family Residential (SFR)	1 EDU										
RV Park (@ SFR Rate)	Based on # of Pads										
Commercial/Industrial	# EDUs = Impervious Area / 3420 s.f.										
Schools/Churches	# EDUs = Impervious Area / 3420 s.f.										
Agriculture	# Impervious Area / 3420 s.f. + farmed area x 10% / 3420 s.f.										
Undeveloped Land	Exempt										

Commercial Rate Credits





- Commercial customers are eligible for credits of up to 38% of the monthly rate
 - Base component includes
 expenses that do not change
 regardless of onsite mitigation
 - Use component includes expenses that decrease with onsite mitigation
- Credits are not available for Residential customers

Commercial Rate Credits



Commercial Credits

- Customers are eligible for credits of up to 38% of the monthly rate
 - Base Component includes expenses that to not change regardless of onsite mitigation
 - Use component includes expenses that decrease with onsite mitigation
- Customers will be able to apply for reductions

COMMERCIAL CREDITS											
<u>Category</u>	Reduction										
Above Standard Improvements – In Place or New Installation	Up to 25% Credit* *Breakdown TBD										
Participate in City Sponsored Stormwater Education	13% Credit										

Comparative Rates





^{*} Peoria is considering transitioning to an impervious basis



Questions & Discussion

Financial Analysis Summary



Revenue Requirement	FY2016			FY2017		FY2018	FY2019		FY2020	FY2021
Revenues										
Rate Revenues Under Existing Rates	\$	2,053,731	\$	2,059,711	\$	2,065,691	\$	2,071,672	\$ 2,077,652	\$ 2,083,632
Non-Rate Revenues		0		2,744		2,802		3,366	2,030	 3,575
Total Revenues	\$	2,053,731	\$	2,062,455	\$	2,068,494	\$	2,075,037	\$ 2,079,682	\$ 2,087,207
Expenses										
Cash Operating Expenses	\$	953,711	\$	974,138	\$	1,170,058	\$	1,208,636	\$ 1,242,727	\$ 1,277,840
Existing Debt Service		-		-		-		- 1	-	-
New Debt Service		-		-		-		-	- 1	-
Rate Funded Capital		-		650,000		775,000		1,000,000	1,250,000	1,500,000
Additions Required to Meet Operating Fund Balance	_				_	<u>-</u>			 	
Total Expenses	\$	953,711	\$	1,624,138	\$	1,945,058	\$	2,208,636	\$ 2,492,727	\$ 2,777,840
Net Surplus (Deficiency)	\$	1,100,020	\$	438,317	\$	123,435	\$	(133,599)	\$ (413,045)	\$ (690,633)
Additions to Meet Coverage		-		-		_		-	-	-
Total Surplus (Deficiency)	\$	1,100,020	\$	438,317	\$	123,435	\$	(133,599)	\$ (413,045)	\$ (690,633)
% of Rate Revenue		0.00%		0.00%		0.00%		6.45%	19.88%	33.15%
Annual Rate Adjustment		0.00%		0.00%		0.00%		0.00%	37.50%	0.00%
Cumulative Annual Rate Adjustment		0.00%		0.00%	. =	0.00%		0.00%	37.50%	37.50%
Rate Revenues After Rate Increase	\$	2,053,731	\$	2,059,711	\$	2,065,691	\$	2,071,672	\$ 2,856,771	\$ 2,864,994
Additional Taxes from Rate Increase	\$	-	\$	-	\$		\$	-	\$ -	\$ -
Net Cash Flow After Rate Increase		1,100,020		438,317		123,435	Η,	(133,599)	366,074	90,729
Coverage After Rate Increases		n/a		n/a		n/a		n/a	n/a	n/c
Sample Residential Monthly Bill	\$	2.00	\$	2.00	\$	2.00	\$	2.00	\$ 2.75	\$ 2.75
Monthly Average Increase (\$)	\$	2.00	\$	4-11-	\$	-	\$	-	\$ 0.75	\$ -