STORM WATER UTILITY FEE STUDY

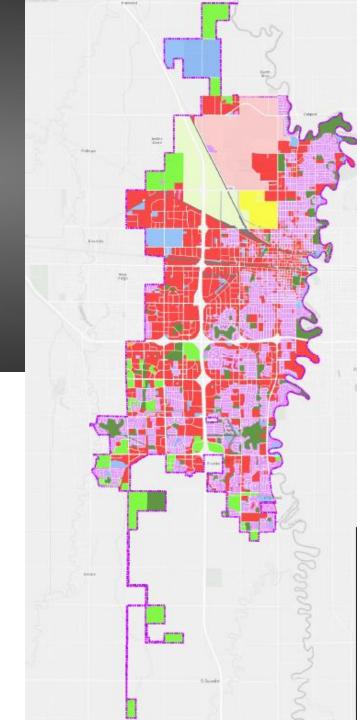
Public Information Meeting #2 August 2, 2017













STORM WATER UTILITY FEE STUDY

Why Are the Fees Being Studied?

- More Equitable Distribution of Storm Water Management Costs (Cost Causer vs. Cost Payer)
- Better Utilize the Utility for Existing and Expanded Storm Water Funding
- Prepare Utility to Address On-going Regulatory Changes
- Adequately Fund Ongoing System Maintenance and Renewal
- Ease Burden on Other Revenue Sources (Sales Tax, General Fund, State Aid, etc.)



STORM WATER UTILITY FEE STUDY

Rational Nexus: Storm Water Service and Fee Setting

- Unlike Water or Sewer, Storm Water service is difficult to meter or measure
- Storm Water service demands are most often derived from hydrologic/runoff indicators
- Size of Parcel, Land Use, and Impervious Surface Area are common service demand indicators
- Most fee structures are typically constructed around these parameters and are considered to be fair and equitable

STORM WATER BUDGETING

Existing versus Future Funding Sources (\$2017)

FUTURE **\$6.23M**

\$6,000,000	\$5.21M		\$936,269
\$5,000,000	\$331,000	General Fund Transfer @20% +\$0.61M	
\$4,000,000	\$1,354,005	Storm Sewer Utility +\$2.39M	
	\$490,000	Special Assessments +\$0.8M	\$3,745,075
\$3,000,000	\$190,000	Infrastructure Sales Tax +\$0M	
\$2,000,000	\$1,594,000	Diversion Sales Tax -\$1.5M	
\$1,000,000	\$250,000	Other -\$0.25M	\$1,290,000
\$0	\$1,003,461	Public Works (State Aid) -\$1.0M	\$94,000 \$190,000



STORM WATER UTILITY FEE STUDY

Storm Water Rate History

Years	Residential Monthly Rate*	Non- Residential Monthly Rate*		
1998 - 2000	\$1.00	\$5.00		
2001	\$2.00	\$10.00		
2002 – Present	\$3.00	\$15.00		

^{*} Storm Water rate only charged to parcels with existing utility service. Large number of parcels without other utility service that receive storm water service (i.e. vacant land, parking lots, parks, etc.)



RATE DESIGN

Common User Fee Methods

• Common service demand indicators include Size of Parcel, Land Use, and Impervious Surface Area

EXAMPLE STORMWATER USER FEE METHODS

RATE STRUCTURE	PRIMARY ADVANTAGES	PRIMARY DISADVANTAGES
FLAT RATE	Easy to Administer All Parcels are Charged	· Highly Inaccurate
GROSS AREA FACTORED BY RUNOFF COEFFICIENT	 Accounts for Parcel Size Less Data Required Addresses Intensity of Development All Parcels are Charged 	 Relatively Inaccurate in Terms of Individual Property Impact Does Not Account for Land Management Practices
IMPERVIOUS SURFACE AREA	Accurate Data Requirements can be Simplified for Equivalent Residential Units (ERUs)	Large Amount of Data Required Does Not Account for Land Management Practices Does Not Account for Parcel Size Not all Parcels are Charged
GROSS AND IMPERVIOUS SURFACE AREA	 Accurate Accounts for Parcel Size All Parcels are Charged Addresses Intensity of Development 	Large Amount of Data Required Does Not Account for Land Management Practices
CLASS INTENSITY OF DEVELOPMENT	Accurate Addresses Intensity of Development	 Large Amount of Data Required Does Not Account for Land Management Practices Not all Parcels are Charged
EQUIVALENT HYDRAULIC AREA (PERVIOUS AND IMPERVIOUS)	 Accurate Accounts for Parcel Size Accounts for Land Management Practices All Parcels Charged Addresses Intensity of Development 	Large Amount of Data Required More Complex than Other Methods

Fargo's Proposed
Rate Structure
(w/ Maintaining Ex.
Residential
Minimums)

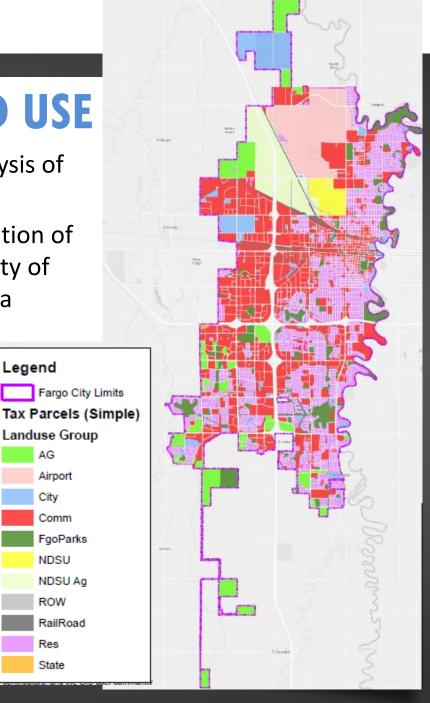
ADDED COMPLEXITY = MORE EQUITABLE RATES

STORM WATER AND LAND USE

- A key component of the study is the analysis of the City's existing GIS parcel database
- Developed tabular parcel data for evaluation of parcel characteristics such as size, intensity of development and impervious surface area

Total Parcel Count	31,734*
Total Land Area (Acres)	25,922
Total Land Area (Sq. Ft)	1,129,170,326

* 19,363 Single Family Parcels 12,371 Non-Residential Parcels



Legend

AG Airport City

Comm

NDSU

ROW

Res State



Gross and Impervious Surface Area

 Rates based on actual impervious area and gross area to also account for runoff from pervious area

Total Revenue Requirements

Gross Area Charge Basis (25%):					
	Allocated Revenue Requirements				
÷	Total Land Area (Sq Ft)				
	Charge per 100 Sq Ft of Total Land Area				

Impervious Area Charge Basis (75%):					
Allocated Revenue Requirements					
÷	Total Impervious Surface Area (Sq Ft)				
=	Charge per 100 Sq Ft of Impervious Area				

Monthly Bill Calculation:

- = (Total Parcel Area (100 Sq ft) * Gross Charge per 100 Sq Ft)/12
- + (Parcel Impervious Area (100 Sq ft) * Impervious Charge per 100 Sq Ft)/12



Gross and Impervious Surface Area with Existing Minimum

Rate Design Based on Preliminary 2018 Rate Revenue Requirements					
Monthly Minimum (all land use types)*	\$3.00				
Monthly Impervious Area Charge per 100 Sq Ft	\$0.04892				
Monthly Gross Area Charge per 100 Sq Ft	\$0.00535				

* Existing Monthly Minimum proposed to be charged until the point where Impervious and Gross Area charges exceed minimum.



Gross and Impervious Surface Area, Cont'd

Monthly Bill Examples (Based on Preliminary Projected 2018 Revenue Requirements):

Parcel	Total Acres	% Impervious	Estimated Monthly Bill	Existing Monthly Bill	
Residential (Avg.)	0.23	32%	\$3	\$3	
Non-Residential (Median)	0.54	28%	\$6	\$15	
Non-Residential (Avg.)	2.50	28%	\$24	\$15	
Bank	1.28	34%	\$17	\$15	
Nursing Home	4.94	32%	\$38	\$15	
Supermarket	5.18	91%	\$93	\$15	
Retail	11.71	88%	\$205	\$15	
Retail	31.80	80%	\$510	\$60*	

^{*}Parcel currently has 4 separate water meters



Gross and Impervious Surface Area, cont'd

Regional Comparison:

Parcel	City of Fargo (\$2018)				Regional Comparisons (Existing 2017 Rates)				
	Total Acres	% Imp	Estimated Monthly Bill		Dickinson	Bismarck	Grand Forks	Sioux Falls	Moorhead
Residential (Avg)	0.23	32%	\$3.00		\$1.75	\$2.70	\$4.34	\$4.43	\$10.21
Non-Residential (Avg)	0.54	34%	\$6.46		\$6.61	\$17.42	\$27.03	\$39.74	\$38.57
Non-Residential (Median)	2.50	28%	\$24.10		\$29.92	\$74.53	\$101.38	\$169.98	\$137.43
Bank	1.28	34%	\$17		\$15	\$27	\$40	\$62	\$117
Nursing Home	4.94	32%	\$38		\$47	\$105	\$142	\$144	\$153
Supermarket	5.18	91%	\$93		\$49	\$111	\$148	\$252	\$153
Retail	11.71	88%	\$205		\$106	\$250	\$330	\$570	\$153
Retail	31.80	80%	\$510		\$281	\$679	\$888	\$1,548	\$153



CITY COMMISSION CONSIDERING KEY POLICY ITEMS W/ PROPOSED RATE STRUCTURE:

- Future Utility Funding Levels
- Charges for Service from the General Fund
- On-going Use of Other Funds and Assessments to Support Storm Water Needs
- Minimums Policy
- Credit Policy
- Exemptions and Fee Caps



EXEMPTION CONSIDERATIONS

- A key advantage and reason for support of the preferred rate structure is that all parcels can be charged (i.e. it is a fee for service regardless of use-type)
- It is common, however, for demand based fee structures to offer exemptions and/or fee caps for large parcels
- City Commission is currently considering various forms of caps and exemptions

CREDIT POLICY CONSIDERATIONS

- City Staff is proposing a credit policy for non-residential parcels that provide structural controls that exceed existing storm water management requirements for volume and rate of runoff
- Credits are a basic component of the proposed fee approach that allow users to voluntarily reduce their fee
- Storm Water Credits increase equity of the User Fee



PROPOSED SCHEDULE MOVING FORWARD

- On-going Large Stakeholder Outreach (August Sept)
- Warehouse and Analyze Public/Large Stakeholder Input
- Further Commission and Staff Input (August)
 - 2nd Commission Brown Bag in August –TBD
 - Public Works Project Evaluation Committee-TBD
- Approval of Final Proposed 2018 Rates (Oct)
- Utility Customer Outreach w/ Bill Stuffers (Nov Dec)
- New Rate Structure Implementation (January 2018)



QUESTIONS?

