

Stormwater

Drainage Fee

Zack Henson, Watershed Quality Manager

September 25, 2023

What is Stormwater



- Runoff generated during rain events and snow/ice melts
- Direct correlation with impervious area
- As Stillwater grows, impervious area increases, generating more runoff

Presentation Agenda

- Drainage Fee History
- Current Rates
- Stormwater Needs
- Rate Calculations
- Potential Future Adjustments
- Recommendation

Drainage Fee History

- 1997 - Established a drainage fee to provide funding for drainage facilities and stormwater projects.
 - All *Residential* properties are billed \$1 per month
 - *Commercial* properties are billed based on amount of impervious area using an Equivalent Residential Unit (ERU) tiered structure.
- No change to fee since original 1997 rates.
- Increases considered in 2008, 2009, 2012, 2014, & 2020

Customer Class	Monthly Fee
Residential: 1 ERU	\$1
Commercial: 0 - 10 ERUs	\$5
Commercial: 11 - 20 ERUs	\$10
Commercial: 21 - 30 ERUs	\$15
Commercial: 31 - 40 ERUs	\$20
Commercial: 41 - 50 ERUs	\$25
Commercial: 51 - 60 ERUs	\$30
Commercial: 61 - 70 ERUs	\$35
Commercial: 71 - 80 ERUs	\$40
Commercial: 81 - 90 ERUs	\$45
Commercial: 91 - 100 ERUs	\$50
Commercial: >100 ERUs	\$55

Current Fees

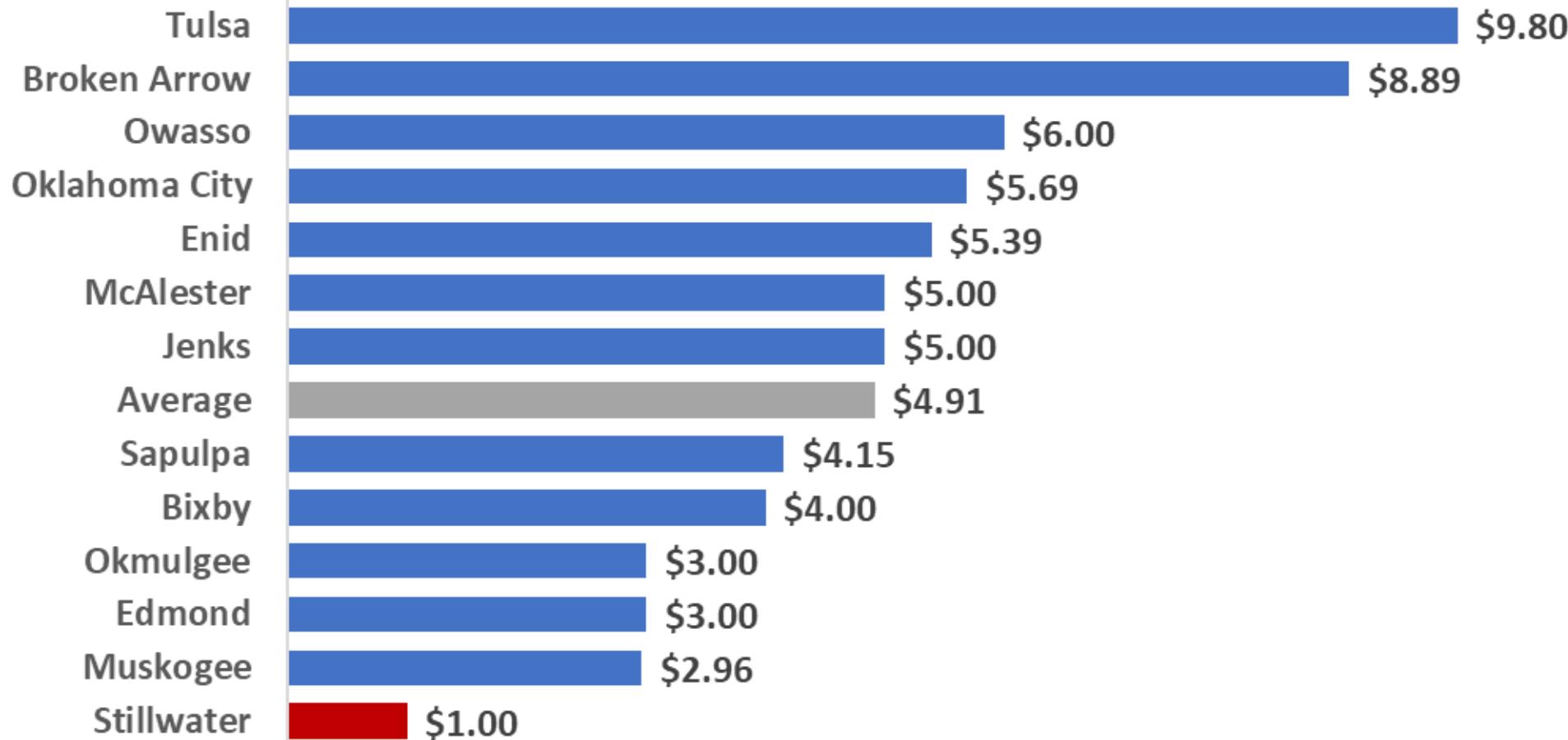
- On average, the fees generate \$310,000 per year
 - \$140K to the Stormwater Program: Municipal Separate Storm Sewer System
 - \$30K to Stormwater Operations (Public Works)
 - \$27K to Community Development
 - \$39K to Engineering
 - \$75K to Capital Projects

Comparisons to Other Cities

Stormwater Management Program – Utility Fee Schedule as of 2023				
City	Population (US Census Data 2020)	Residential per Month	Non-Residential per Month	ERU (or ESU) Equivalent Residential Unit
Stillwater	48,394	\$1.00	\$0.50 per ERU	5000 ft²
Muskogee	36,878	\$2.96	\$3.00 per ERU	2650 ft ²
Edmond	94,428	\$3.00	\$3.00 per ERU	4860 ft ²
Oklmulgee	11,322	\$3.00	\$3.00 per ERU	4356 ft ²
Bixby	28,609	\$4.00	\$4.00 per each ERU	N/A
Sapulpa	21,929	\$4.15	\$3.51 per each ERU, min. of \$28.09, max. of \$1,000	2650 ft ²
Jenks	25,949	\$5.00	\$5.00 per meter	N/A
McAlester	18,171	\$5.00	\$5.00 per ERU	N/A
Enid	51,308	\$5.39	\$5.39 per ERU, min. of \$26.96	5000 ft ²
Oklahoma City	681,054	\$5.69	\$5.69 - \$658.92 (based on meter size)	N/A
Owasso	38,240	\$6.00	\$6.75 per ERU, min. of \$13.50	3000 ft ²
Broken Arrow	113,540	\$8.89	\$8.89 per each ERU	2650 ft ²
Tulsa	413,066	\$9.80	\$9.80 per each ERU	2650 ft ²

Current Rate Comparisons

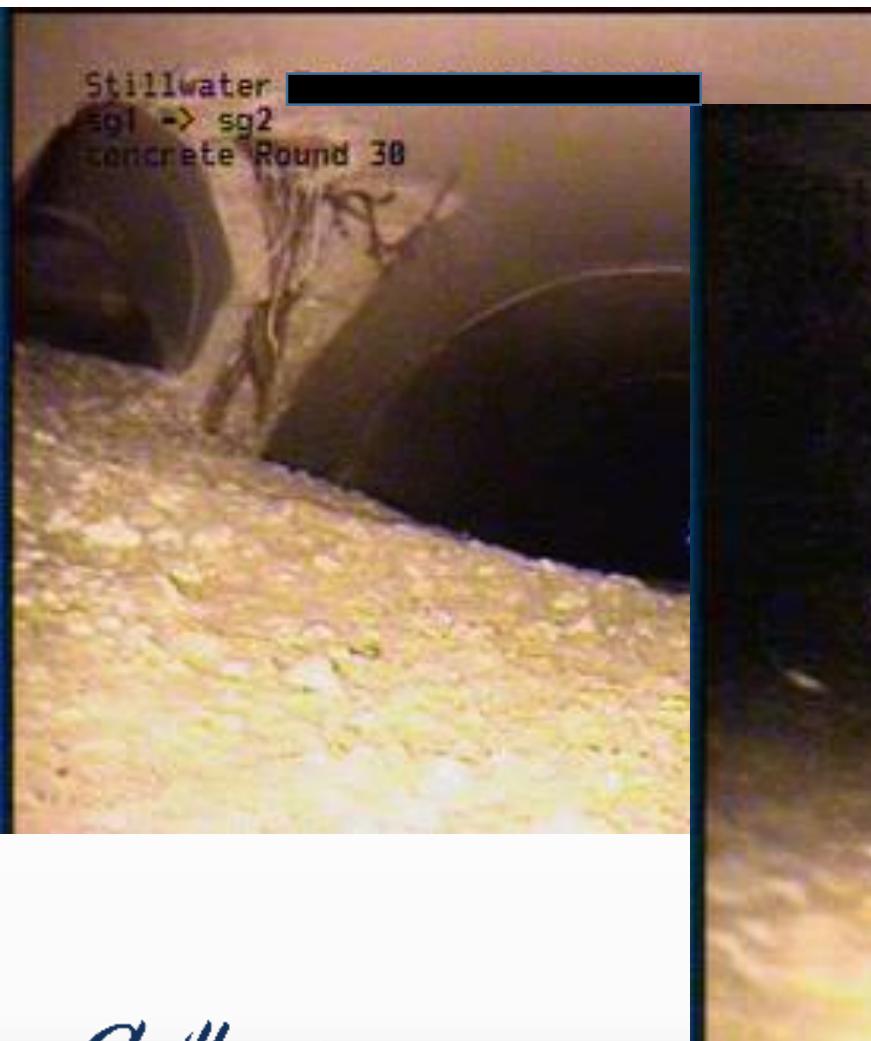
Residential Monthly Stormwater (Drainage) Fee



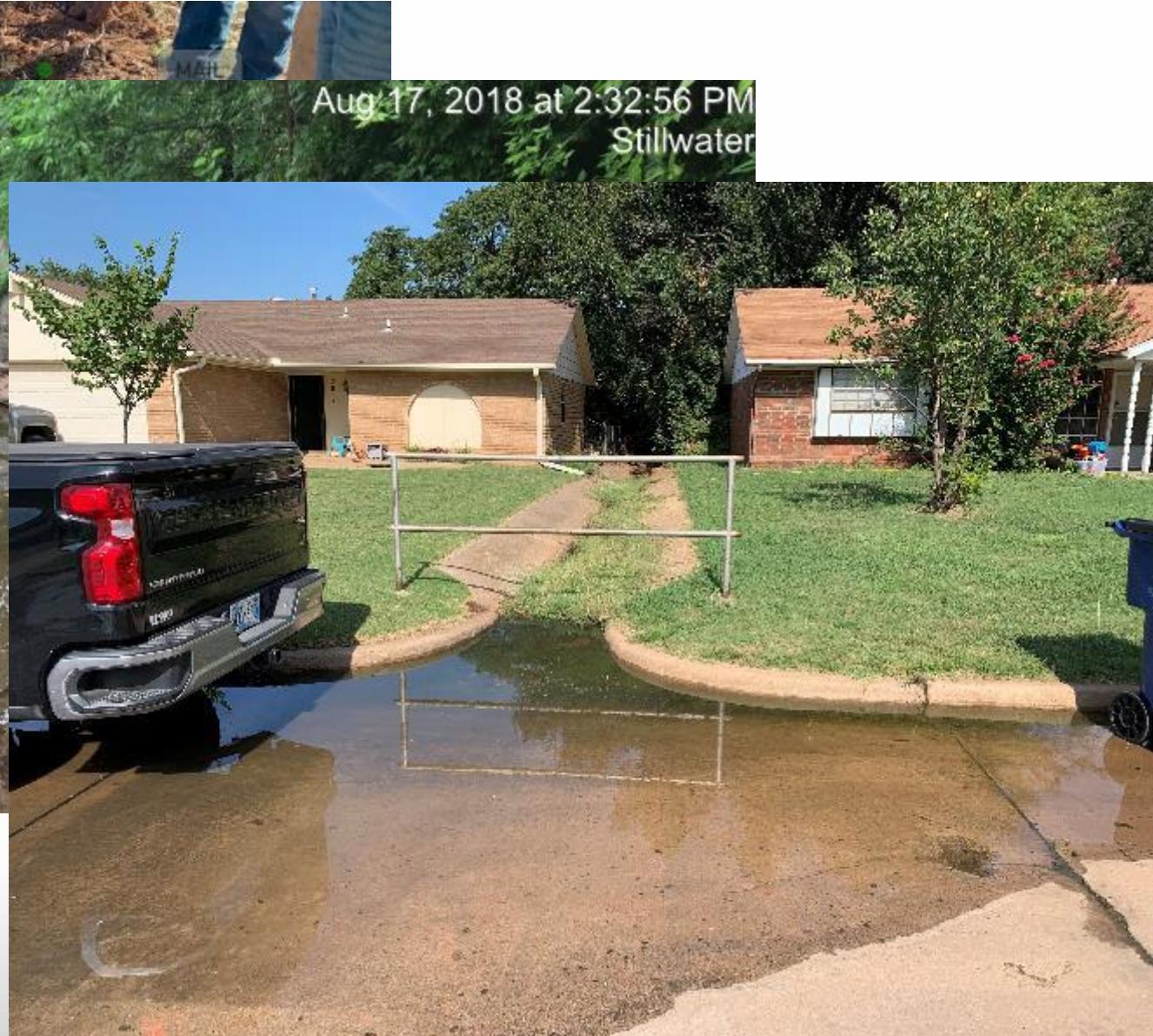
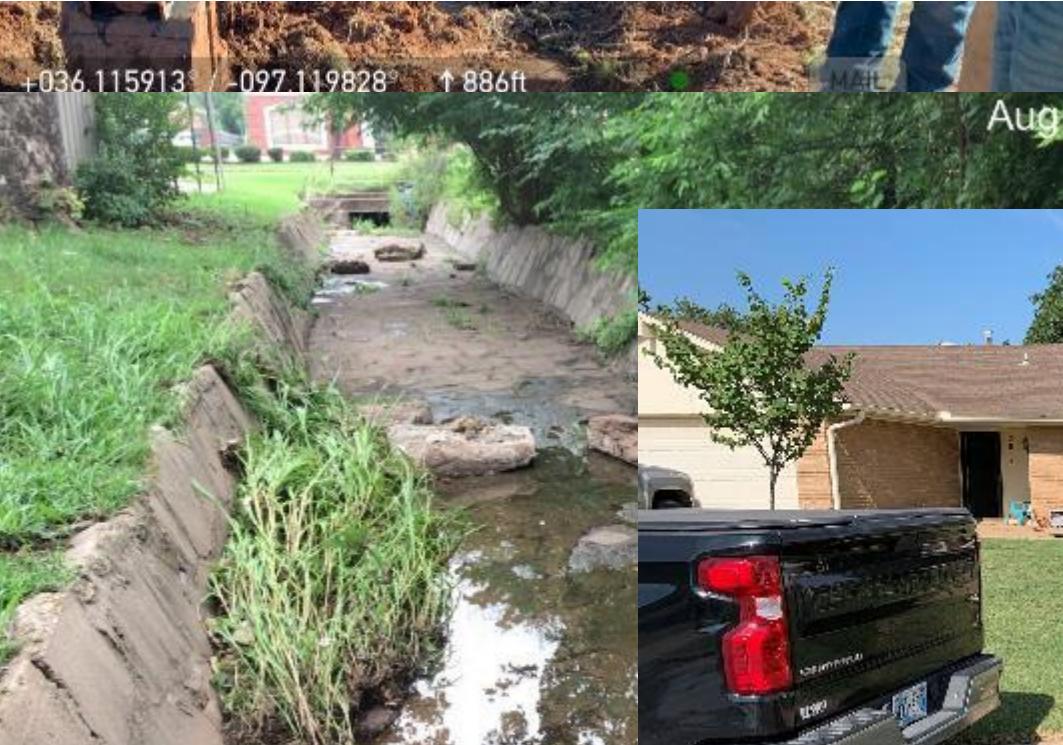
Stormwater Needs

- Capital Projects
- Natural and Man-made Channel Maintenance
- Development Requirements
- Water Quality (MS4)
- National Flood Insurance Program (NFIP)

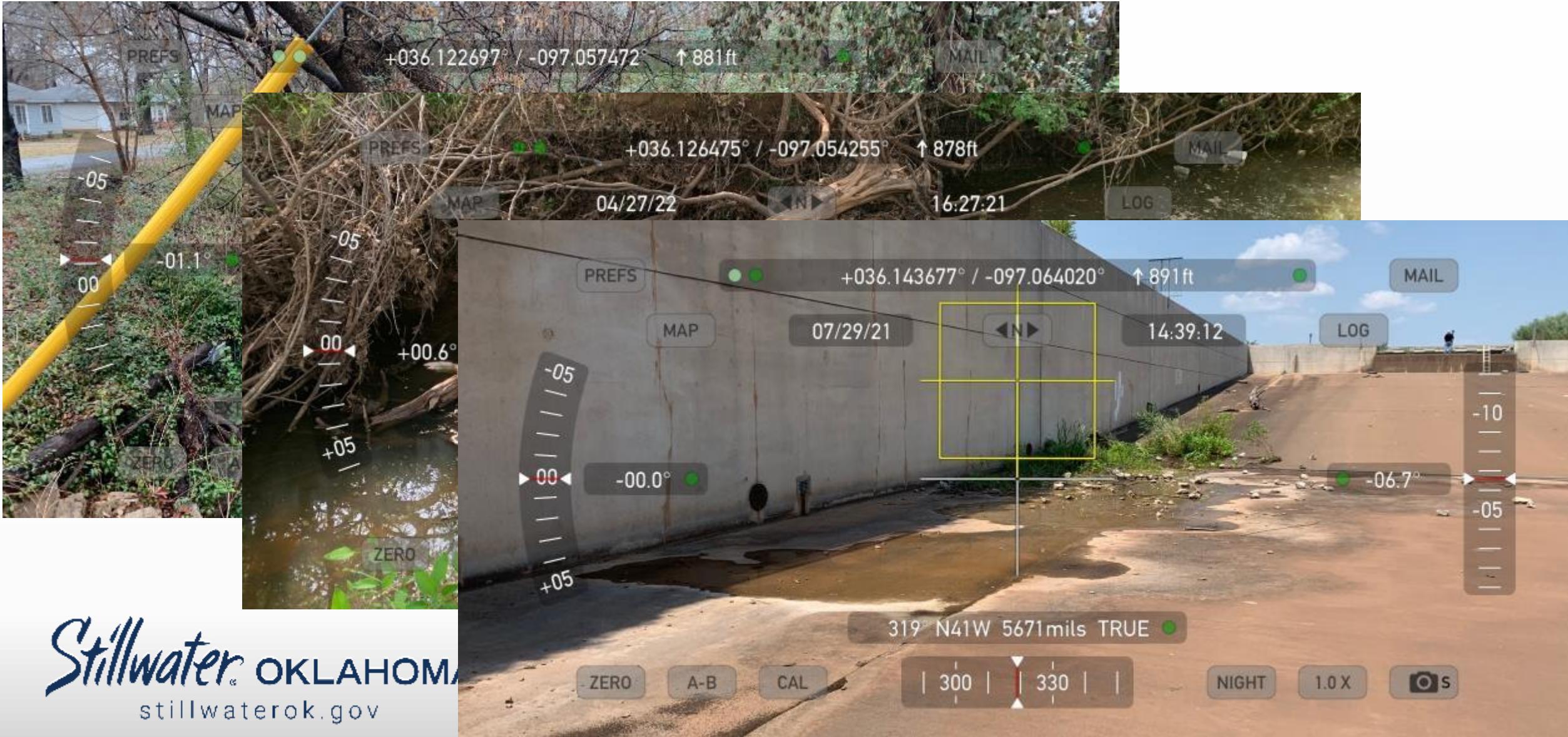
Capital & Maintenance Examples



Capital & Maintenance Examples



Capital & Maintenance Examples



Fee Assessment

- Stormwater Fee Assessment completed in 2020
- Council Presentation completed November 30, 2020
- Rate recommendations based on:
 - Identified Problem Areas
 - Capital Needs
 - MS4 Program Needs
 - Further Master Plan Studies
 - Floodplain Management Needs

Example Capital Projects

- Duck Creek Improvements: Admiral to 6th Ave.
 - Designed, unfunded
- Miller Storm Sewer Improvements: Campus to Boomer Creek
 - Partial designs, unfunded
- Babcock Basin Drainage Improvements
 - Designed, unfunded

Capital & Maintenance Needs

- Pre-Disaster Mitigation Grant – Boomer Creek Watershed
- Identified approximately \$55 million in capital needs (AVG \$2.5M per stream mile)
- Average applied to remaining watersheds yields an additional \$50M in potential capital needs

State Unfunded Mandates

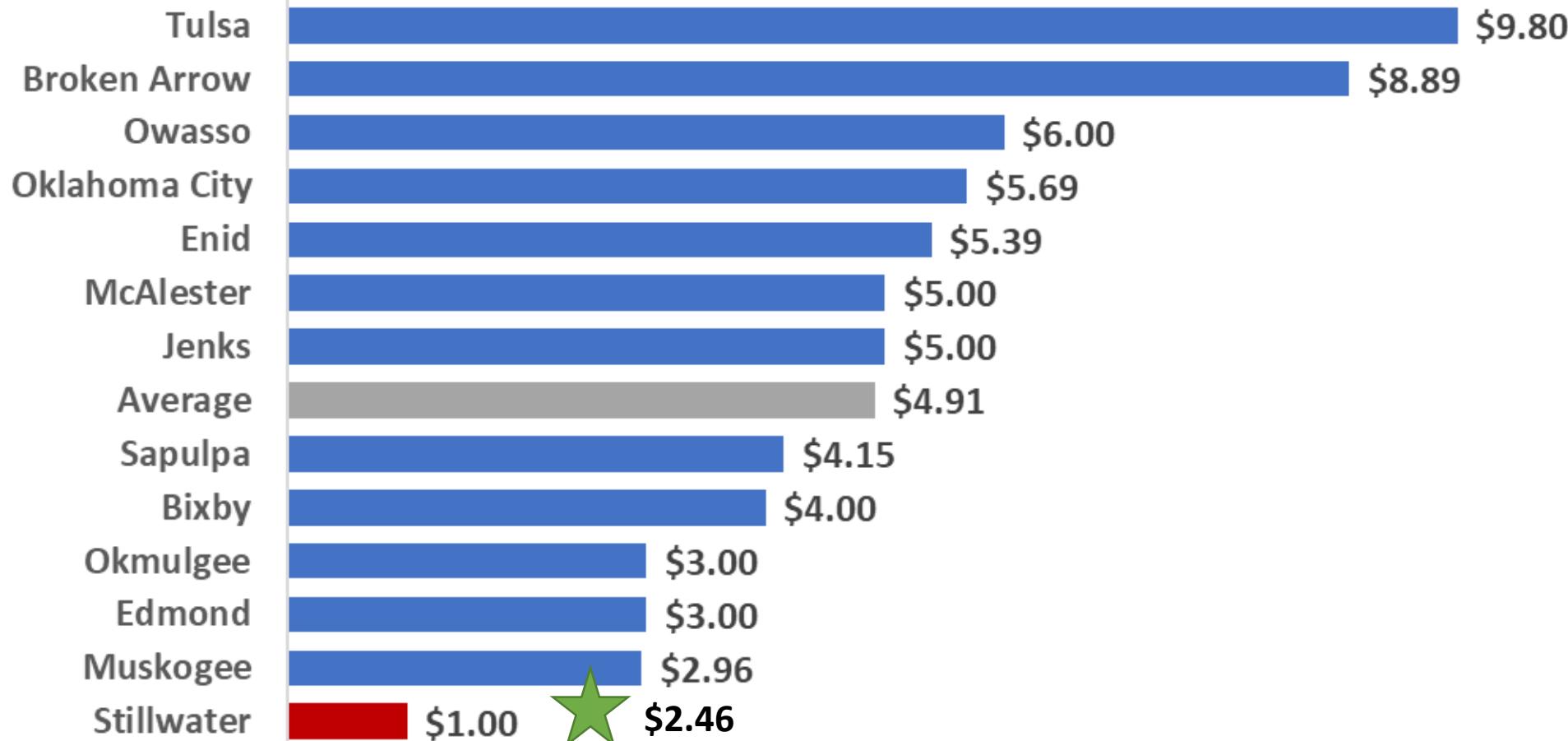
- MS4 Program (Municipal Separate Storm Sewer System)
 - Water Quality regulations from the Clean Water Act
 - Additional staff and vehicle needed
 - Water Quality Monitoring Program
- National Flood Insurance Program(NFIP)
 - Water *Quantity* regulations from FEMA for development and drainage system maintenance
 - Community Ratings System

Proposed First Step Increase

Customer Class	Current Rate Per Month	Proposed Rate from 2020 Study
Residential	\$1.00	\$2.46
Comm. Tier 1	\$5.00	\$12.28
Comm. Tier 2	\$10.00	\$24.56
Comm. Tier 3	\$15.00	\$36.84
Comm. Tier 4	\$20.00	\$49.12
Comm. Tier 5	\$25.00	\$61.40
Comm. Tier 6	\$30.00	\$73.68
Comm. Tier 7	\$35.00	\$85.96
Comm. Tier 8	\$40.00	\$98.24
Comm. Tier 9	\$45.00	\$110.52
Comm. Tier 10	\$50.00	\$122.80
Comm. Tier 11	\$55.00	\$135.08

Current Rate Comparisons

Residential Monthly Stormwater (Drainage) Fee



Future Potential Rate Adjustments

- Potential step or percent increases based on future Capital Improvement Plan
- Transition from Residential Flat Fee to Tiered Fee based on Impervious Area
- Consider potential exemptions for Public Schools, non-profits, etc.
- Consider rate reductions for low impact practices: rain barrels, rain gardens, use of pervious materials

Staff Recommendation

- Update the ERU value of 5,000 ft² to 2,500 ft²
- Update the residential flat rate to \$2.46; and
- Update commercial tiered rates per the consultants recommendation.

Questions?