

Agenda Item 12A

Bethany Stormwater

August 1, 2023

History

- Bethany citizens currently pay \$3.00 per month to have a stormwater management program that is mandated by DEQ.
- Stormwater fees are necessary to provide an equitable way for the community to share the cost of a public service. As required, Bethany's stormwater fee provides long-term funding and consistency in budgeting during times of administrative changes.
- The City voted down GO Bonds meant for drainage in 1994, with the 2022 GO Bond being the first major push since 1994.



Purpose of the Stormwater Fee



The monthly fee allows the stormwater management program to keep our waterways clean in a myriad of ways. This aids in maintaining positive environmental quality, as required by the Oklahoma Department of Environmental Quality (DEQ) and the EPA.



Controlling localized flooding is not the primary focus of the Clean Water Act, but rather the secondary purpose. While the stormwater management program can be involved with localized flooding, it is not intended to be a program which maintains that infrastructure.

Purpose of the Stormwater Fee

In 2023, alone, the Bethany Stormwater Management Program has performed:

- Abated leaking oil barrels at businesses
- Fuel pump seepage repairs
- Grease traps at restaurants
- Oil-Water separator installation in the vehicle wash bay
- Creek trash clean-outs
- Dry weather screening & subsequent outfall cleaning.
- Ticketed/warnings for grass and debris in roadways
- Household Hazardous Waste program
- Bulk Waste Pick-Up
- Rain Barrel Sale
- DEQ Audits & Inspections of all municipal facilities.
- Completed a revision of the Stormwater Management Plan (SWMP) for the 2023-2028 reporting period (submitted on July 31).

Stormwater Requirements

- The Stormwater Management Program is broken into 6 Minimum Control Measures (MCMs), which specify a field of focus for the program.
- Each MCM contains a Best Management Practice (BMP) which are quantifiable tasks that must be completed to ensure that the larger MCM is successful.
- **The MCMs & BMPs are all required by DEQ and the EPA to ensure Bethany maintains positive stormwater quality.**



Updated stormwater management plan (SWMP) for 2023-2028



Municipal Good Housekeeping



Illicit Discharge Detection & Elimination



Construction & Post-Construction Site Management



Public Participation



Public Outreach & Education



DEQ Audits & Inspection

Minimum Control Measures 1-2

- Public Education & Outreach
 - Public marketing and informational advertisements through Cox Channel 20, Bethany Bulletin, Newsletter and COB Social Media.
 - Public Reporting (Annual Report & SWMP available on website)
 - Brochures & bookmarks available at municipal facilities
 - Rain Barrel Sale
- Public Participation
 - Support regional agencies:
 - Central Oklahoma Stormwater Association (COSWA)
 - Association of Central Oklahoma Governments (ACOG)
 - Bethany Clean-Up Day & Adopt-a-Spot program
 - Hazardous Household Waste & Bulk Waste Pick-Up

Minimum Control Measures 3-4

- Discharge Detection & Elimination
 - Monthly and incidental staff reporting
 - Regional Pollution Data Collection
 - Source Inspection & Detection
 - Enforcement/Abatement of Pollution Sources
- Construction Site Management
 - Stormwater Pollution Prevention Plan & OKR10 permits are required and reviewed for all developments over 1-acre.
 - Site plan reviews
 - Monthly inspections on erosion control devices (silt fencing, soil stabilization, site upkeep, etc.)

Minimum Control Measures 5-6

- Post-Construction Site Management
 - Final Site Inspections
 - Low Impact Development (LID) Ordinances
 - Commercial Landscaping; lowers the speed and volume of runoff.
- Municipal Good Housekeeping
 - Pollution reduction at MS₄ facilities
 - Staff Training
 - Dry Weather Field Screenings (biannual)
 - Ongoing Bulk-Waste drop-offs

Expenditure Examples – Infiltration & Inflow (I and I)

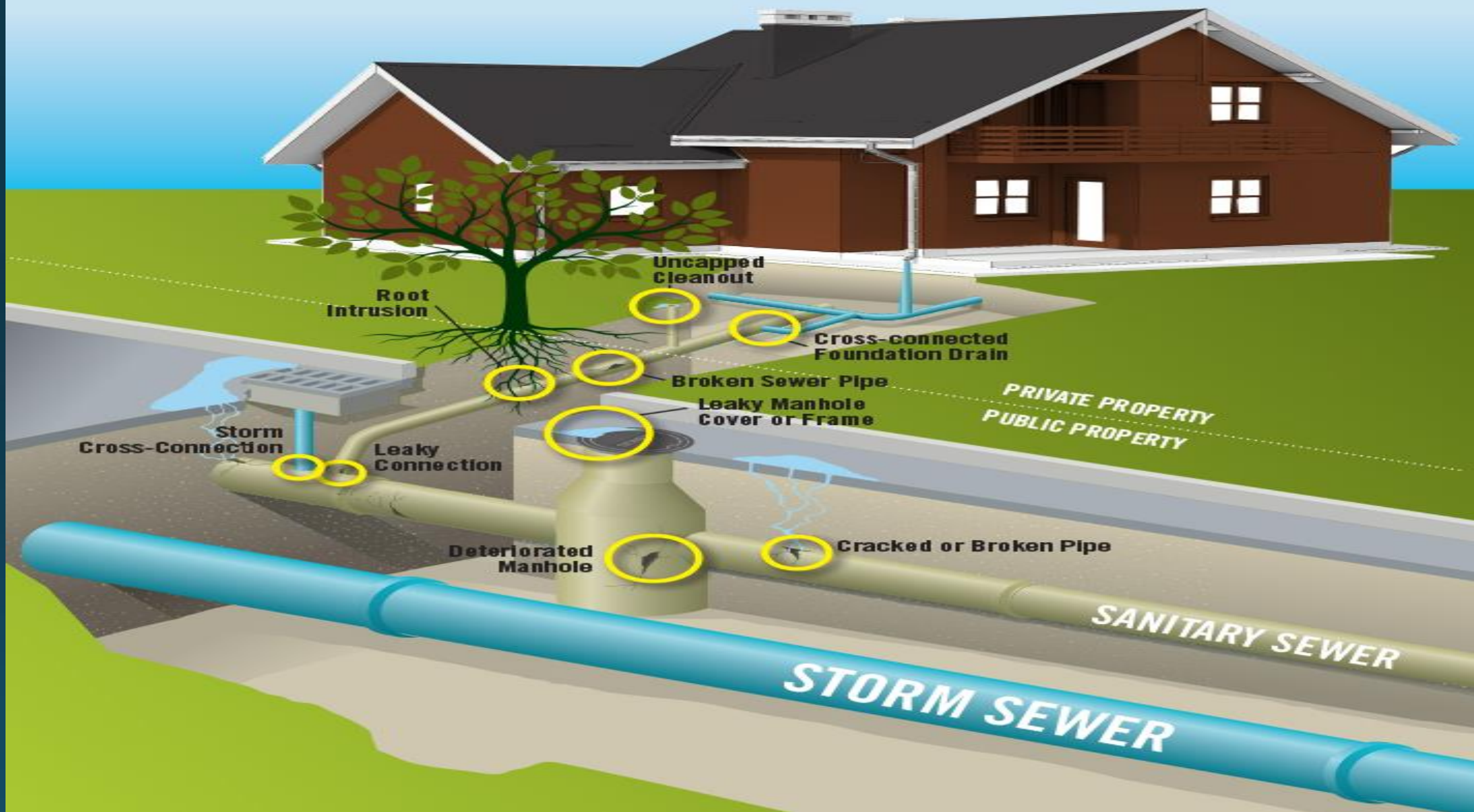
What is inflow and infiltration?

Infiltration refers to groundwater that seeps into sewer pipes through holes, cracks, joint failures, and faulty connections. Inflow is stormwater that quickly flows into sewers via roof drain downspouts, foundation drains, storm drain cross-connections, and through holes in manhole covers. The cost to treat I & I at our water plant is \$179,000 per year.

Why is this important?

Infiltration and Inflow can exacerbate flaws or damage on the pipes themselves, which can lead to increased outflow pollution. As Bethany's outflows lead into the North Canadian River & Spring Creek, water contamination could have severe impacts on the water of anyone downstream. Thus, identifying and correcting infiltration and inflow is paramount to the health, safety, and welfare of Bethany and its neighbors.

INCORRECT CONNECTIONS OF INFLOW AND INFILTRATION





Approximate costs



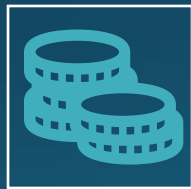
Best Management
Practices: \$111,111.59



Staff Resources and
Maintenance: \$111,750



Infiltration &
Inflow Treatment:
\$179,000



Approximate Total:
\$401,881.59

Please note: If the City of Bethany collects \$244,404 for stormwater and spends \$401,881.59 on stormwater then the stormwater fee is not lost in the general fund.

Agenda Item 12B

Council Discussion