Acknowledgement

The Bethany Stormwater Management Program is Bethany's first line of defense for stormwater pollution prevention. This program performs routine inspections of probable pollution sources, coordinates enforcement & abatement efforts, public outreach & education, and aids in the collection of hazardous & bulk wastes. This program allows for the City of Bethany to remain in compliance with the Clean Water Act of 1972, as well as Best Management Practices (BMPs) per recommendations of the Environmental Protection Agency (EPA) and the Oklahoma Department of Environmental Quality (DEQ).

The 2023-2024 reporting cycle was an immense year of growth for the City of Bethany's stormwater management program. During this period, the updated Stormwater Management Plan (SWMP) was integrated into daily procedures and was subsequently revised in July 2024. The stormwater management program also underwent a brief review in March 2024, with a letter of recommendations from DEQ outlining deficiencies in the 2022-2023 annual report; all of which were addressed and corrected by staff in April 2024. The revisions of the annual report and the SWMP include a revamped BMP schedule, new implementation and inspection schedules, and revised internal inspection protocols.

Program Overview

The City of Bethany covers an area of 5.2 square miles, and discharges stormwater into two bodies of water: **The North Canadian River (OK520520000250_00)**, and **Spring Creek (OK620910040170_00)**. The North Canadian River is a Category 5 waterbody on the 2022 303d list and is currently impaired for sulfate (5b). Spring Creek is a Category 3 waterbody on the 303d list. The efforts of the Bethany Stormwater Management Program have aided in the reduction of pollutants to these water bodies and maintains the city's compliance within its OKR04 Permit (OKR040007). The revised 2023 SWMP emphasizes the need and operational goal of the City of Bethany to protect these waterbodies and prevent further contamination by utilizing the BMPs listed in the SWMP and this annual report, as required by Part IV.A.1.a-h of the OKR04 permit; the methods for pollution prevention can be found in the BMP section of this report.

The City of Bethany did not annex any territory during the 2023-2024 Reporting Cycle, and its boundaries have not changed (*Appendix 1*). The City of Bethany relies only on one MS4 to complete its BMPs, which is the City of Oklahoma City, as Bethany utilizes their Hazardous

Household Waste Program and Municipal Landfill for both daily and bulk waste pick-ups (*Appendix 2*). The Bethany Stormwater Management Program has one stormwater qualified inspector on staff, Brendan Summerville, who performs all tests, inspections, and report reviews.

Goals of the Stormwater Management Program

- Pollution reduction and elimination within built & natural environments.
- Monitor, prevent, and abate probable illicit discharges (spills, waste dumping, erosion, etc.) through inspections, ordinances, education, and active pollution reduction measures.
- Advise and direct municipal & private developers through plan review and post-construction inspections to ensure the reduction and elimination of illicit discharges and potential harm to the MS4.
- Fulfill OKR04 Phase II permit conditions as set forth by the Stormwater Management Plan (SWMP), in particular the use of BMPs to have quantifiable pollution reduction measures.

2023-2024 Accomplishments

1. Completed a revision of the 2023 Stormwater Management Plan.
2. Revised inspection procedures within the Bethany Public Works Department and the Department of Planning & Community Development.
3. Staff acquired field test kits for routine pH and chlorine testing and have utilized the same tools for stormwater related incidents.
4. Successful review of the Stormwater Management Program by the Bethany City Council in August 2023.
5. As of September 2023, staff now has one "Stormwater Qualified" inspector (Brendan Summerville).
6. Inclusion of the stormwater program and data within the first annual city report, prepared by staff and distributed among the public, providing in-depth reviews of all city activities.
7. Removed 1,680.5 tons of debris through two bulk waste removal events.
8. Staff received approval and funding to begin the assembly of the first GIS based system (Diamond Maps) within the city for utility and land use planning.

9. Successful treatment and repairs of inflow & infiltration.

The accomplishments of the Stormwater Management Program in the 2023-2024 reporting cycle, in addition to its further revisions and refinements, showcase a healthy program that is continuing its efforts to reduce pollution to our 303d waterways, storm sewer infrastructure, and the continued protection of the health, safety, and welfare of the public.

2023-2024 Data

OKR10 Site Inspections	13
OKR10 Sites	6 (4 inactive, with construction completed) - OKR1034667 (Inactive) - OKR1032021 (Inactive) - OKR1035204 - OKR1035245 - OKR1035114 (Inactive) - OKR1034142 (Inactive)
Dry Weather Field Screenings	18 Infall/Outfall Locations (2 inspection periods)
Bulk Waste Pick-Up	1,680.5 tons
Citizen Report-a-Concerns	2
Stormwater Incidents	3
Land Disturbing Permits Issued	3 – (6824 NW 23rd ST, 7940 NW 23rd Street, and 6800 NW 39th Expy)
Site Plans Reviewed	5 – Two non-OKR10 commercial developments, the Bethany Children's Center, SNU Golf Facility, and the Bethany First Church Campus Renewal.

pH & Total Chlorine Test Results

As part of MCM III, Discharge Detection and Elimination, water tests for pH and total chlorine were performed at the city of Bethany's two waterbodies; Spring Creek & the North Canadian river. Both waterbodies are on the 303d list as impaired waterbodies, thus these tests were performed at points where water is discharged from the city. Spring Creek water testing took place at the Bethany Public Works lot, where runoff water is collected into the creek's ravine, whereas North Canadian River testing

took place at the mouth of the canal, leading away from the Bethany Water Treatment Plant. A total of three tests were performed over the course of FY2024 due to testing equipment arriving in October 2023.

Date	Time	Location	Rainfall within 72 hours (inches)	Temperature (°F)	pH	Total Chlorine (mg/l)
22 December 2023	2:48pm	North Canadian Canal	0.0	65	8.2	0.2
22 December 2023	2:15pm	Spring Creek	0.0	65	8.5	0.2
22 March 2024	2:56pm	North Canadian Canal	0.66	64	7.6	0.1
22 March 2024	2:25pm	Spring Creek	0.66	64	7.9	0.0
27 June 2024	7:36am	North Canadian Canal	1.39	79	8.4	0.1
27 June 2024	2:25pm	Spring Creek	1.39	77	7.8	0.1

2024-2025 Goals

1. Continued development of the city's GIS database
2. Adhere to the updated BMPs:
    a. Monthly inspections of all OKR10 construction sites.
    b. Quarterly water testing
    c. Further development of internal reporting procedures.
3. Further development of SOPs, staff workflow charts, and educational materials for internal and external users.
4. Increase social media planning and outreach efforts.

2024-2025 Program Schedule

July	Begin permit cycle – Restock brochures, OKR10 Site Inspections, re-order testing supplies (if needed).

August	Dry Weather Field Screening, OKR10 Site Inspections
September	Quarterly Water Test, OKR10 Site Inspections, Annual Report data collection.
October	Bulk Waste-Pick Up, OKR10 Site Inspections, Annual Report Due (31 Oct).
November	Free Landfill Day, OKR10 Site Inspections, Winterization Social Media Campaign
December	Quarterly Water Test, OKR10 Site Inspections
January	Restock Brochures, OKR10 Site Inspections, Staff Training (Public Works)
February	Dry Weather Field Screening, OKR10 Site Inspections, Spring SW Informational Guide.
March	Quarterly Water Test, OKR10 Site Inspections, Bulk-Waste Pick-Up, Promotional Campaign for Bethany Clean-Up Day & Rain Barrel Sale.
April	Rain Barrel Sale, Great American Clean-Up, OKR10 Site Inspections
May	OKR10 Site Inspections
June	Quarterly Water Test, OKR10 Site Inspections, End Permit Cycle – Review Practices & Policies

2023-2024 BMPs

In the following section, the BMPs listed will be quantified and justified in their use, and their respective success and placement in the SWMP going forward will be discussed. ***The BMPs listed are a part of the revised 2024-2025 SWMP, with justification and explanations of the BMPs themselves appearing in the following pages.***

Stormwater Expenditures

During the 2023-2024 reporting cycle, the Bethany Stormwater Management Program collected approximately $253,440 in stormwater fees, which is funded by a monthly fee of $3.00 on each water bill. This funding was distributed across staff time & resources, inflow & infiltration

treatment, and BMPs across the city as they are needed. This is due in part to there not being a line item within the annual budget, but rather different departments needing access to funds to cover all aspects of the management program.

Staff Time & Resources covers the salaries and other associated costs of stormwater management. This program utilizes the time of the stormwater manager/city planner, the entirety of the Community Development Department, the time of Public Works directors and staff members, customer service, and the engineering department.

Inflow & infiltration treatment covers the approximate cost of treating contaminated water before it exits the MS4, as well as the immediate and necessary repairs to stormwater infrastructure caused by inflow and infiltration.

Program Element	**Cost**
Hazardous Household Waste Disposal Partnership	$11,455
Bulk-Waste Pick-Up	$108,259.00
COSWA Membership Dues	$1,200.00
Stormwater Qualified Training Fees	$375.00
SW Related Abatement/Repairs	$6,061.00
Sub Total	**$127,350**
Staff Time & Resources	**$113,333.81**
Inflow & Infiltration Treatment	**$180,000**
Total SW Related Expenditures	**$420,683**