



Rule 13 - MS4 ANNUAL REPORT

State Form 51278 (R6 / 7-12)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:

IDEM Office of Water Quality , Storm Water Program
MS4 Coordinator
100 North Senate Avenue, Room 1255
MC 65-42
Indianapolis, IN 46204-2251
Telephone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)
Web Access: <http://www.IN.gov/idem/4900>

- NOTE:**
- Annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit the annual report is considered noncompliance with your permit.**
 - For the **first five (5)-year** permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
 - In the **second and subsequent five (5)-year** permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage.
 - Please type or print in ink.**
 - Please answer all questions thoroughly and return the form by the due date.
 - Return this form and any required attachments to the IDEM Storm Water Program, MS4 Coordinator at the address listed in the box on the upper-right.

Five Year Permit Term	Reporting Year
<input type="checkbox"/> 1st Permit Term	Permit Year <u>2022</u>
<input checked="" type="checkbox"/> Second and subsequent five (5) Year Permit Terms	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5
MS4s in their first permit term must submit reports annually. MS4s that are in subsequent permit terms must submit in years 2 and 4 of the permit term.	

PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Permit Number:	INR 0 4 0 005	Type of MS4:	<input checked="" type="checkbox"/> City
2. MS4 Entity:	City of Angola / Trine University <i>(Name of permit holder)</i>	<input type="checkbox"/> Town	<input type="checkbox"/> County
3. MS4 Operator:	Richard M. Hickman, Mayor, City of Angola		
4. Mailing Address:	210 N. Public Square Angola, IN ZIP: 46703 County: Steuben		
5. Email Address:	rhickman@angolain.org		

PART B: GENERAL INFORMATION – MS4 COORDINATOR

6. MS4 Coordinator (please print):	Kristen Thomas		
7. Person's Title:	City of Angola MS4 Coordinator		
8. Mailing Address:	210 N. Public Square Angola, IN ZIP: 46703		
9. Telephone Number:	260-624-2663		
10. E-mail Address:	kthomas@angolain.org		

PART C: GENERAL INFORMATION – REPORT PREPARER

11. Name:	<i>(Provide this information if someone other than MS4 Operator or Coordinator completed this report.)</i>		
12. Affiliation with the MS4:			
13. Mailing Address:			
14. Telephone Number:	Extension:		
15. E-mail Address:			

PART D: PROGRAM MANAGEMENT
327 IAC 15-13-18

16. Provide a summary of the following program management activities performed during the reporting period:

- a) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.
City of Angola -
Richard M. Hickman, Mayor (Responsible Individual/MS4 Operator)
Kristen Thomas, City of Angola MS4 Coordinator (Point of Contact)
Trine University -
Earl D. Brooks II, University President (Responsible Individual/MS4 Operator)
Nick Wentworth, Trine University MS4 Coordinator (Point of Contact)
- b) Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")
The City of Angola MS4 boundary incorporates the corporate limits of the city. The Trine University MS4 boundary lies within the City of Angola corporate limits. The city annexed 74.10 acres in mid-2021 for the development of the Eastland Crossing subdivision. In mid-2022, the City of Angola Parks Department was gifted approximately 108 acres in the extra-territorial jurisdiction contiguous to the City of Angola corporate limits.
See Section 1: MS4 Jurisdictional Map and City Limits Map
- c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.
Water quality testing is performed annually as part of the MS4 program. Thirty-one sites were sampled annually. In addition, the MS4 program provides funding to the Steuben County Lakes Council to test four (4) additional sites, three times a year.
- d) Provide updated receiving water information completed during the reporting period if applicable.
N/A - No updates were needed for this reporting period.
- e) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.
CITY OF ANGOLA - Storm Water User Fees, Site Improvement Permit Fees, and General Wastewater Operations & Maintenance Fund.
TRINE UNIVERSITY - General Operating Fund
- f) Provide a list of new active industrial sites identified during this reporting period.
None during this reporting period
- g) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.
N/A
- h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.
See attached.
- i) Other:
N/A

PART E: PUBLIC EDUCATION AND OUTREACH - MINIMUM CONTROL MEASURE

17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.
See Section 2 Attached
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
See Section 2 Attached
- c) Describe program BMPs that went beyond those identified in the SWQMP.
See Section 2 Attached
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
See Section 2 Attached
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
See Section 2 Attached
- f) Other:
N/A

PART F: PUBLIC PARTICIPATION AND INVOLVEMENT - MINIMUM CONTROL MEASURE

18. Identify the best management practices for public participation and involvement included in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.
See Section 3 Attached
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
See Section 3 Attached
- c) Describe program BMPs that went beyond those identified in the SWQMP.
See Section 3 Attached
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
See Section 3 Attached
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
See Section 3 Attached
- f) Other:
N/A

PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION - MINIMUM CONTROL MEASURE

19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).
See Section 4 Attached
- b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.
See Section 4 Attached
- c) Identify changes made to the IDDE Plan during this reporting period if applicable.
See Section 4 Attached
- d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.
See Section 4 Attached
- e) Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a timetable for completion.
See Section 4 Attached
- f) Other:
N/A

PART H: CONSTRUCTION SITE STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE

20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.
See Section 5 Attached
- b) Describe program implementation partnerships and explain successes and barriers during this reporting period.
See Section 5 Attached
- c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.
See Section 5 Attached
- d) Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.
See Section 5 Attached
- e) MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.
See Section 5 Attached
- f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.
See Section 5 Attached
- g) Other:
N/A

PART I: POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE

21. List the best management practices for post-construction storm water run-off control identified in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.
See Section 6 Attached
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.
See Section 6 Attached
- c) Describe program implementation partnerships and explain successes and barriers.
See Section 6 Attached
- d) MS4 area personnel responsible for implementation of the post-construction minimum control measure shall receive, at a minimum, annual training. Identify training provided for this minimum control measure during this reporting period.
See Section 6 Attached
- e) Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.
See Section 6 Attached
- f) Other:
N/A

PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING - MINIMUM CONTROL MEASURE

22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C and respond to the following:

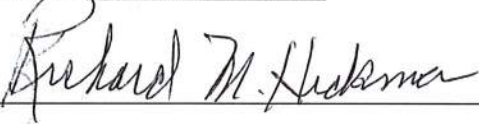
- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.
See Section 7 Attached
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.
See Section 7 Attached
- c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.
See Section 7 Attached
- d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.
See Section 7 Attached
- e) Other:
N/A

PART K: CERTIFICATION AND SIGNATURE

The individual listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this annual report, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Type or Print Name: Richard M. Hickman

Signature: 

3/20/2023
(mm/dd/yyyy)

Angola MS4 Jurisdiction

City of Angola - March 2023

Legend:

Angola Corporate Limits



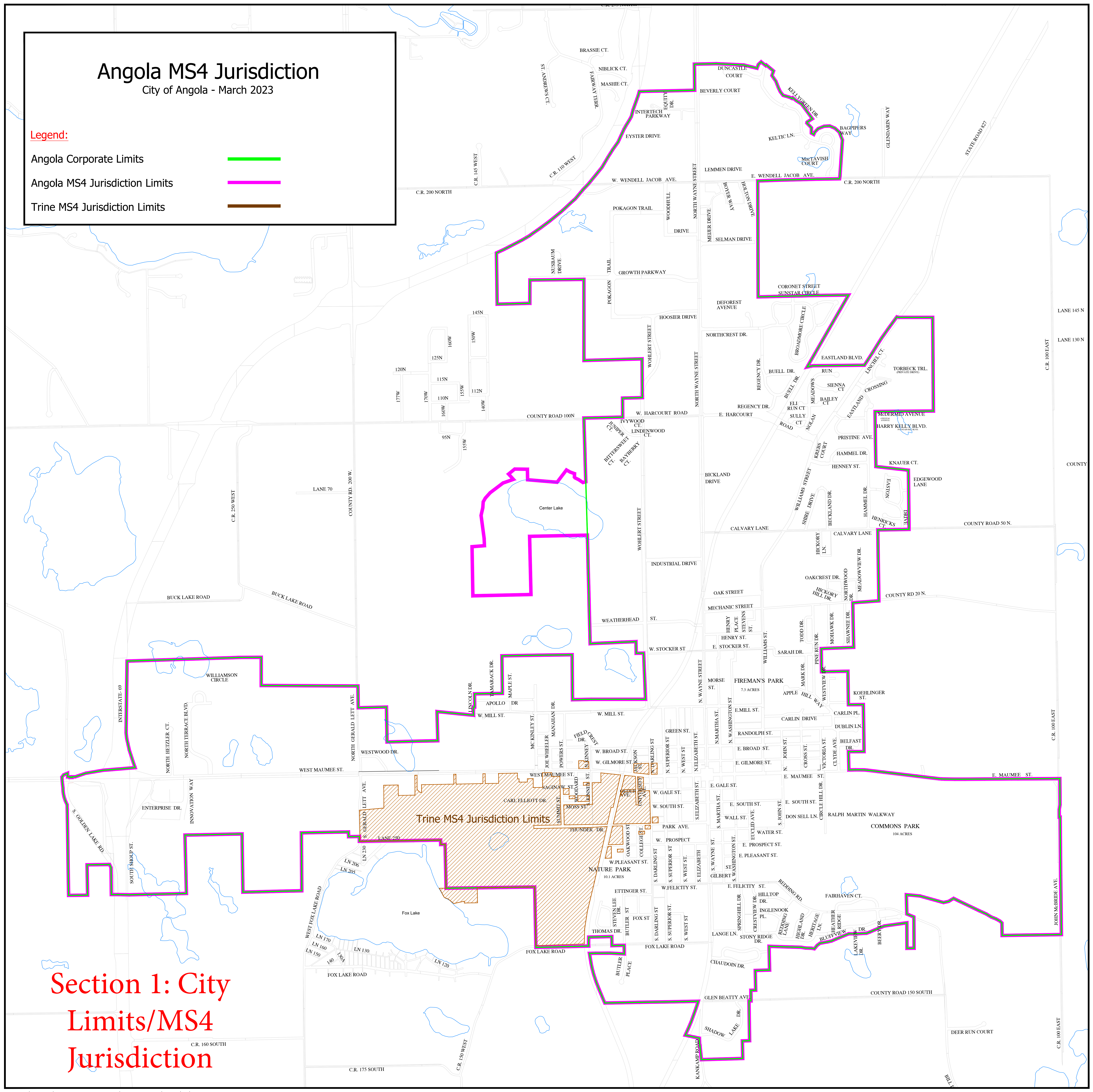
Angola MS4 Jurisdiction Limits



Trine MS4 Jurisdiction Limits



Section 1: City Limits/MS4 Jurisdiction



PART D: PROGRAM MANAGEMENT

16. Provide a summary of the following program management activities performed during the reporting period:

h) Provide a summary of complaints received and follow-up results related to storm water quality issues during this reporting period.

01/06/2022 NW Quadrant of John St. & Maumee St. Diesel fuel leak - Contacted the Angola Fire Department after learning from the Water Superintendent of a diesel fuel leak that occurred in the early morning hours. Jason Meek, Captain for AFD, advised the fire department was dispatched at ~ 12:30 AM to a diesel fuel leak. Completed report received on 01/07/2022 from Fire Chief advising clean-up complete.

02/16/2022 Nolan Meadows outstanding erosion & sediment control issues - COA Plan Director requested a list of all outstanding erosion and sediment control violations for Granite Ridge's Nolan Meadows subdivision. Inspection conducted with list sent to J Barclay for follow-up and resolution. Enforcement decisions handled by Mayor and city attorney.

03/23/2022 Lot E of 1100 W Mill - Jennifer Barclay, Planning Director, observed large area of land disturbance with no prior contact for development. David & Tammy Neely On 3/23/22, a site visit was conducted. A large area of the parcel had been leveled at the road with stockpiles of dirt located on the property. No contact had been made with the city by the owner of the parcel to develop the parcel. Retha Hicks, Planning, called and left a message for Mr. Neely to call. When Mr. Neely returned the call, he was advised of city requirements including erosion and sediment control requirements. He stated he would purchase control measures at Menards, which a follow-up inspection revealed he did. Project was completed without proper permits including a Site Improvement Permit. Mr. Neely is liable for any negative impacts that may have been caused through the land disturbance that was done as part of his project.

03/28/2022 Nolan Meadows tracking complaint - APD Chief Ken Whitmire was approached by a member of the public who wanted to lodge a complaint on the street conditions within Nolan Meadows. Dirt and mud had been tracked onto the streets from lots under construction. Per established protocol from the mayor, the complaint was forwarded to Plan Director Jennifer Barclay. She will follow-up with Granite Ridge for correction. Enforcement decisions handled by Mayor and city attorney.

03/31/2023 Illicit discharge – Nolan Meadows – While conducting a tap inspection, an overturned Port-a-John was observed with discharge from the holding tank observed in the curb gutter leading to a storm drain. WWTP Superintendent advised he would notify Dilts Port-a-John rental. The liquid waste was no longer actively running into the storm drain. High winds most likely contributed to the overturning of the portable toilet. Complaint resolved 03/31/2022.

04/07/2023 Tracking at 705 Mohawk Dr - Asst. Superintendent for the street department reported tracking. A call was placed to Nierman Concrete. The owner stated he was having one of his workers head over to clean the dirt off the road. A same day follow-up determined the tracking had been corrected.

04/28/2022 Tracking at 500 Clyde Ave - A private drive project resulted in tracking onto city street. Called owner of property and advised her of the concern relating to sediment. Owner stated she would clean the street better with a broom since she had already tried to clean up the mess with a shovel. Complaint resolved 04/29/22.

05/02/2022 Runoff on Lane 130 Fox Lk - Land disturbance was discovered at 160 Ln 130 Fox Lk with tracking of sediment observed onto Lane 130. Work done without permits. Wagler & Associates was discovered to be the contractor. Complaint resolved 05/02/22.

05/09/2022 Hydraulic fuel leak 1308 N Wayne St. Ste. E - Hydraulic leak behind Moe's. Spill was very minor and contained in the parking lot on the north side of the building. Minimal tracking in the parking lot and no tracking onto road. Republic service to clean up remaining. Complaint resolved on 05/09/2022.

05/11/2022 Weed killer sprayed in roadside ditch at 916 S Wayne St - An educational letter was mailed to the property owner detailing the concerns with applying herbicide to drainage ditches as application was not in progress. Complaint resolved 05/12/2022.

05/25/2022 Lack of erosion/sediment control complaint at Fair Haven Villas - City attorney sent letter to property owner requesting corrections. Mayor and city attorney responsible for enforcement. Complaint resolved 06/27/2022 through attorney.

05/25/2022 Illicit discharge coming from Smith Enterprises, 101 N McKinley – Representatives of the WWTP discovered the discharge while conducting locates. Several damaged containers used to store used oil were located on the south side of the building. An oil sheen was observed. Contact was made with the Angola Fire Department Captain on Duty, Pete Decker, to inform him of the illicit discharge. Captain Decker advised that the owner would need to contact an environmental company if assistance was needed in the clean-up. The owner, Tony Smith, was onsite at the time of the follow-up. Mr. Smith advised he would take care of the used containers and clean the discharge up as required. Complaint resolved 05/26/2022.

06/28/2022 – General complaint of dirt on roadway near 817 Thomas Dr. – Building Commissioner has been receiving calls daily from Cp with complaints on the construction project occurring to the NW of his property. General complaints of dirt. Minor tracking was observed on Thomas Drive from the subject property; however, construction activities were occurring at the time with what appeared to be preparations for the installation of a driveway. Due to active construction, property owner had until the end of the day to clean the road. Complaint resolved 06/28/2022.

07/15/2022 – Unidentified dark substance is covering the road in front of the lot under construction at 3185 Kellygreen Dr – A site visit was conducted on the day the complaint was received. The area in front of this lot had a large area of a petroleum-based product across Kellygreen Dr. A dumpster was located on site. A dark colored liquid was observed in the dumpster. A&D Specs, contractor, was contacted. Mr. Wise advised of a hydraulic failure that occurred. At that time, the driver applied one bag of absorbent and left. Mr. Wise contacted the the dumpster company and requested they come back out on site to clean the area up appropriately. Complaint resolved completely on 07/18/2022.

09/29/2022 – Grass clippings from mowing being discharged onto Redding Rd. The property owner was observed on the mower at the time. Complaint forwarded to Darrin Taylor, APD, as a nuisance complaint. Complaint resolved on 09/29/2022.

10/14/2022 – The Steuben County Surveyor received a complaint. The buildings at 2020 N Wayne are being power washed causing a large amount of paint chips to become dislodged and litter the area. A phone number for Angola Square LLC was located (239-434-6767). A voicemail was left advising of the situation. The recipient was advised that the paint chips needed to be cleaned up so they would not enter the storm drain system, which leads to the Croxton regulated ditch. Spoke with representative from company to ensure clean-up. 10/18 - Second complaint on paint chips in the parking lot. Called Preferred and spoke with Jeremy Rector. He indicated the chips were cleaned up on Friday. They did power wash again yesterday. The chips should have been cleaned up. Jeremy stated he would visit the site and take care of any remaining issues. Complaint resolved completely 10/18/2022.

09/26/2022 – Concrete washout discharged to the ground within the Eastland Crossing subdivision – On 09/26/2022, an email was sent to Leroy Steury, Owner of Steury Bldrs, and Jim Mutton, Eastland Crossing developer. The email was a notification of an illicit discharge of concrete washout directly to the ground within the subdivision. Complaint resolved completely 10/03/2022.

11/16/2022 – Lynn Raisor, IDEM Senior Environmental Manager, Wastewater Inspection Section of IDEM, contacted MS4 to notify of a possible illegal discharge to either sanitary or storm. An anonymous complaint was submitted to IDEM. Lynn wanted to meet onsite for an investigation at 203 Weatherhead – An onsite visit was conducted the same day Lynn made contact. After investigation it was discovered an illicit discharge into the city's storm drain from the plant was occurring. On 11/17/22, a letter with photos was emailed to Mr. Pontorno. Lynn Raisor and Cami Smith (WWTP Pre-Treatment Coordinator) were copied on the email. A hard copy was also sent to Mr. Pontorno through the US Postal Service. Mr. Pontorno responded with a plan of action on 11/23/2022. Illicit discharge was suspended immediately upon discovery.

11/25/2022 – Hydraulic fuel spill at 1305 Apollo Dr – On November 28th, MS4 was notified of a hydraulic fuel spill that occurred on November 25th. On November 26th, Republic Services notified the City of Angola by email of a hydraulic fuel spill that occurred on November 25th at 1305 Apollo Dr. This information was not received by MS4 until the 28th. The email detailed the steps taken by Republic to properly clean the affected area. Complaint had been resolved as of 11/28/2022.

12/20/2022 While conducting an MS4 construction inspection at 305 S Martha (new judicial center) an illicit discharge was observed in the storm drain on the NW corner of South and Washington. After the superintendent for Weigand Construction began asking workers if they knew how the illicit discharge occurred, one employee indicated that someone from the jail had been dumping a shop vac with unknown materials directly in the storm drain. The Chief Deputy was made aware of the illicit discharge. He stated he would ensure the dumping ceased. Complaint resolved 12/20/2022.

Full complaint details are recorded in the COA's GIS system.

SECTION 2

PART E: PUBLIC EDUCATION AND OUTREACH-MINIMUM CONTROL MEASURE

17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C.

1.1 Webpage-Maintain and update a storm water quality webpage to educate the public regarding storm water quality and pollution prevention issues.

1.2 Education/Outreach Partnerships-Form partnerships with organizations to increase education and outreach opportunities regarding storm water quality and pollution prevention issues.

1.3 Education/Outreach Programs-Develop, update, and implement a program to address storm water quality and pollution prevention issues.

1.4 Education/Outreach Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues.

17a. Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.

1.1 Webpage

Measurable Goal: Maintain & update the storm water quality website to educate the public regarding storm water quality and pollution prevention issues.

The City of Angola webpage is updated on a periodic basis as needed until the entire website is redesigned as planned. Included in the webpage is contact information, as well as links to the MS4 Advisory Group and Angola Municipal Code. The website is also an avenue for citizens to contact the MS4 department if there are concerns with water quality in the city. A redesign of the city's entire website is moving forward with the City of Angola placing a request for quotes out to web designers for overhaul/redesign to begin in 2023.

1.2 Education/Outreach Partnerships

Measurable Goal: (1 Partnership) Form a partnership with an organization to increase education and outreach opportunities regarding storm water quality and pollution prevention.

Several partnerships were formed/continued during this reporting cycle. These include:

- Steuben County Soil & Water Conservation District (SCSWCD)
- Steuben County Lakes Council (SCLC)
- Pigeon Creek Watershed Steering Committee (PCWSC)
- Trine University-Students Promoting Environmental Awareness and Knowledge (SPEAK)
- Purdue Extension
- Steuben County Health Department (SCHD)
- Saint Joseph River Basin Commission (SJRBC)

Advances were made in the formation of new partnerships during this reporting period as MS4 began working directly with the SJRBC Aquatic Ecologist. MS4 has worked closely with the SCSWCD, the SCLC, and the SCHD to develop a strategic water quality sampling program based on input and recommendations from the Aquatic Ecologist. This sampling program will benefit the watersheds within the entire county. In addition, an effort was initiated by the City of Angola MS4 to form a group of interested MS4s located in the northeast geographical area of the state that will serve as an educational training and mentoring group for any NE Indiana MS4 personnel who would like to participate. Important strides have been made with the new

partnerships formed, as well as the already established partnerships. Several meetings, training sessions, and events were held in an effort to build and strengthen these partnerships. These partnerships provide great educational opportunities for all sectors of Angola, as well as county-wide.

1.3 Education/Outreach Programs

Measurable Goal: (1 training event annually, storm drains stenciled/marked annually) Continue to update and implement programs to address storm water quality and pollution prevention issues.

The MS4 department continues to partner with the Steuben County Soil & Water Conservation District to assist in the youth conservation day. This is a day of activities and educational opportunity to area youth on pertinent environmental topics including water quality. This training day was held in-person in 2022 after several years of not being held due to the coronavirus pandemic.

Storm drains continued to be marked with the “Dump no Waste, Drains to Lake” detail. In 2022, 19 new castings were installed with new construction/reconstruction while old castings without the required statement continue to be marked in the older sections of town.

1.4 Education/Outreach Materials

Measurable Goal: (200 flyers/brochures annually, 6 billboards/ads annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues.

Education & Outreach material was distributed throughout the reporting period. These main materials that were distributed include:

IDEM & USEPA Materials

Billboard & Ad Campaign

Storm Water Activity Books-Distributed at annual SWCD Youth Conservation Field Day.

City of Angola Quarterly Newsletter-contributed articles on stormwater education periodically.

City of Angola Utility Bill Inserts-Used to distribute information to utility customers about stormwater issues.

Southern Indiana Stormwater Advisory Committee (SISWAC) educational pamphlets were distributed at the annual contractor’s workshop.

The following table illustrates the education and outreach materials that were distributed during the 2022 reporting period.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	31
<i>Billboards</i>	5
<i>Flyers/Newsletter</i>	9600 (3 sets of 3200 were mailed)
<i>Stormwater Activity Booklets</i>	243

17b. Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

Current “Unique” partnerships remain sufficient for the type of education and outreach conducted through partnerships at this time-did not implement IAs or MOUs with other organizations per the SWQMP measurable goal & implementation schedule. Due to the nature of these established partnerships, education and outreach goals are achieved through verbal agreements and letters of support.

Changes during this permitting cycle included more involvement with new partnerships. Working together to create educational lesson plans, to plan and hold conferences and training events are ways to pool resources to accomplish tasks that would otherwise not be feasible to complete as a separate entity. Busy schedules and lack of time and manpower continue to inhibit efforts to provide educational events and trainings. The formation of new partnerships provides more support in overcoming these hardships.

17c. Describe program BMPs that went beyond those identified in the SWQMP.

BMPs not identified in the SWQMP but were implemented during this reporting period include:

- MS4 partnered with the SCSWCD to create videos with lesson plans for stormwater pollution prevention and water quality.
- MS4 partnered with the SCSWCD to bring together representatives from various environmental organizations and agencies in the county to discuss educational resources possessed by each to coordinate and streamline efforts in sharing a common message of conserving natural resources and teaching youth and adult environmental education.
- MS4 partnered with the SCHD and the SCSWCD to design the local exhibit that complimented the Smithsonian Waterways Exhibit that appeared locally. Two panels were designed specifically focused on water quality concerns and the local agencies and organizations that are available as area resources for any type of water quality questions or matters. The local display continues to be exhibited at various events by local organizations, businesses, etc.
- MS4 partnered with the SCHD and the SCSWCD to present stormwater pollution prevention information at a Septic Installers Meeting and a Septic Smart Workshop for homeowners.

17d. Identify storm water BMPs installed or initiated for this MCM during this reporting period.

BMP Installed or initiated during this reporting period:

- Stormwater Outreach Webpage maintained and updated.
- Youth Conservation Field Day held in September with stormwater educational booklets distributed to students.
- Contractors Workshop held in December.
- Storm drains continue to be identified and labeled with the “No Dumping” markings.

17e. Describe program implementation partnerships and explain successes and barriers during this reporting period.

The City of Angola has continued its partnership with Trine and various student groups. A partnership has been developed with Students Promoting Environmental Awareness & Knowledge (SPEAK). Together this group, as well as the MS4 group, has implemented a recycling program on Trine’s campus, participated in area litter pickup projects, and river clean-up. No barriers were encountered during this reporting period with the SPEAK group.

The City of Angola continues to partner with the SCLC by providing funding to supplement the Council’s water quality testing program with four (4) additional sites. In addition to this commitment, the MS4 has worked closely with the SCSWCD, the SCLC, and the SCHD to develop

a strategic water quality sampling program based on input and recommendations from the Aquatic Ecologist from the SJRBC. This sampling program will benefit the watersheds within the entire county.

The City of Angola has continued partnering with the SCSWCD. This partnership has proven successful as both organizations have similar structure and objectives. The creation of storm water pollution prevention videos continues to illustrate the successful partnership through the deliverables received.

The only barrier that has been identified is the turnover in some of the organizations' staff. The MS4 must work to create "buy-in" by new staff members for existing trainings, educational materials, etc. This can be time-consuming; however, sometimes staff turnover promotes the generation of new ideas for educational opportunities, as well.

SECTION 3

PART F: PUBLIC PARTICIPATION AND INVOLVEMENT-MINIMUM CONTROL MEASURE

18. Identify the best management practices for public participation and involvement included in your SWQMP Part C.

2.1 Constituent Assessment-Using the results of the 2017 Constituent Assessment, identify current constituent knowledge of storm water quality issues. Update and revise appropriate programs based on results.

2.2 Citizen's Advisory Group-Assist in development and implementation of the SWQMP, utilize expertise of members and member organizations to coordinate efforts aimed at improving water quality, and encourage public involvement in storm water quality and pollution prevention events and programs.

2.3 Involvement/Participation Partnerships-Form partnerships with organizations to increase involvement and participation opportunities regarding storm water quality and pollution prevention programs.

2.4 Involvement/Participation Programs-Develop, update, and implement a program to address storm water quality and pollution prevention issues.

2.5 Involvement/Participation Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues to help promote public involvement and participation.

18a. Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

2.1 Constituent Assessment

Measurable Goal: Using the results of the 2017 Constituent Assessment, identify current constituent knowledge of storm water quality issues. Update and revise appropriate programs based on results.

The assessment from the 2017 survey is still being used to determine constituent awareness. The assessment results showed education in both residential and agricultural fertilizing, as well as the need for further clarification on exactly where stormwater runoff goes after it enters storm drains should remain a key focus in helping residents to better understand how pollution affects stormwater runoff. During this reporting period, the main delivery of this type of information has been through utility inserts and newspapers, which survey results indicated would be the best way to inform residents of stormwater concerns. The use of social media has also been implemented, although the use of this medium is still limited.

2.2 Citizen's Advisory Group

Measurable Goal: (1 meeting annually) Assist in development and implementation of the SWQMP, utilize expertise of members and member organizations to coordinate efforts aimed at improving water quality, and encourage public involvement in storm water quality and pollution prevention events and programs.

Meeting dates for the reporting cycle were:

2/23/2022 – In-person 9/8/2022 – Virtual
4/26/2022 – Virtual 10/4/2022 – Virtual
4/28/2022 – In-person 11/1/2022 - Virtual
8/17/2022 – Virtual

2.3 Involvement/Participation Partnerships

Measurable Goal: (1 Partnership) Form partnership with organization to increase involvement and participation opportunities regarding storm water quality and pollution prevention programs.

Current “Unique” Partnerships are sufficient- No IAs or MOUs were implemented. Advances were made in the formation of new partnerships during this reporting period as MS4 began working directly with the SJRBC Aquatic Ecologist. MS4 has worked closely with the SCSWCD, the SCLC, and the SCHD to develop a strategic water quality sampling program based on input and recommendations from the Aquatic Ecologist. This sampling program will benefit the watersheds within the entire county. In addition, an effort was initiated by the City of Angola MS4 to form a group of interested MS4s located in the northeast geographical area of the state that will serve as an educational training and mentoring group for any NE Indiana MS4 personnel who would like to participate. Important strides have been made with the new partnerships formed, as well as the already established partnerships. Several meetings, training sessions, and events were held to build and strengthen these partnerships. These partnerships provide great educational opportunities for all sectors of Angola, as well as county-wide.

2.4 Involvement/Participation Programs

Measurable Goal: (1 Training Event Annually) Develop, update, and implement a program to address storm water quality and pollution prevention issues.

Several programs were continued through this reporting period. These include:

- Storm Drain Stenciling/Marking- “Dump No Waste-Drains to Waterway” or “No Dumping-Drains to River” Storm Drain Castings
- Billboard & Ad Campaign
- Partnership in the Youth Conservation Field Day
- Continual offering of bulk trash removal in conjunction with trash services to aid in clean-up efforts.
- Continue the city-wide recycling program.

2.5 Involvement/Participation Materials

Measurable Goal: (200 flyers/brochures annually, 6 billboards/ads annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues to help promote public involvement and participation.

Education & Outreach material was distributed throughout the reporting period. The materials distributed include:

- IDEM & USEPA Materials
- Billboard & Ad Campaign
- Storm Water Activity Books-Distributed at annual SWCD Youth Conservation Field Day.
- City of Angola Quarterly Newsletter-contributed pieces on stormwater education periodically.
- City of Angola Utility Bill Inserts-Used to distribute information to utility customers about stormwater issues.
- Southern Indiana Stormwater Advisory Committee (SISWAC) educational pamphlets were distributed at the annual contractor’s workshop.

The following table illustrates the education and outreach materials that were distributed during the 2022 reporting period.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	31
<i>Billboards</i>	5
<i>Flyers/Newsletter</i>	9600 (3 sets of 3200 were mailed)
<i>Stormwater Activity Booklets</i>	243

18b. Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

The only barrier that has been identified is the turnover in some of the organizations’ staff. The MS4 must work to create “buy-in” by new staff members for existing trainings, educational materials, etc. This can be time-consuming; however, sometimes staff turnover promotes the generation of new ideas for educational opportunities, as well.

18c. Describe program BMPs that went beyond those identified in the SWQMP.

BMPs not identified in the SWQMP but were implemented during this reporting period include:

- MS4 partnered with the SCSWCD to create videos with lesson plans for stormwater pollution prevention and water quality.
- MS4 partnered with the SCSWCD to bring together representatives from various environmental organizations and agencies in the county to discuss educational resources possessed by each to coordinate and streamline efforts in sharing a common message of conserving natural resources and teaching youth and adult environmental education.
- MS4 partnered with the SCD and the SCSWCD to design the local exhibit that complimented the Smithsonian Waterways Exhibit that appeared locally. Two panels were designed specifically focused on water quality concerns and the local agencies and organizations that are available as area resources for any type of water quality questions or matters. The local display continues to be exhibited at various events by local organizations, businesses, etc.
- MS4 partnered with the SCD and the SCSWCD to present stormwater pollution prevention information at a Septic Installers Meeting and a Septic Smart Workshop for homeowners.

18d. Identify storm water BMPs installed or initiated for this MCM during this reporting period.

BMP Installed or initiated during this reporting period:

- Stormwater Outreach Webpage maintained and updated.
- Youth Conservation Field Day held in September with stormwater educational booklets distributed to students.
- Contractors Workshop held in December.
- Storm drains continue to be identified and labeled with the “No Dumping” markings.
- Flyers and educational material on display at all public meetings and committee meetings.

18e. Describe program implementation partnerships and explain successes and barriers during this reporting period.

The City of Angola has continued its partnership with Trine and various student groups. A partnership has been developed with Students Promoting Environmental Awareness & Knowledge (SPEAK). Together this group, as well as the MS4 group, has implemented a recycling program on Trine's campus, participated in area litter pickup projects, and river clean-up. No barriers were encountered during this reporting period with the SPEAK group.

The City of Angola continues to partner with the SCLC by providing funding to supplement the Council's water quality testing program with four (4) additional sites. In addition to this commitment, the MS4 has worked closely with the SCSWCD, the SCLC, and the SCHD to develop a strategic water quality sampling program based on input and recommendations from the Aquatic Ecologist from the SJRBC. This sampling program will benefit the watersheds within the entire county.

The City of Angola has continued partnering with the SCSWCD. This partnership has proven successful as both organizations have similar structure and objectives. The creation of storm water pollution prevention videos continues to illustrate the successful partnership through the deliverables received.

The only barrier that has been identified is the turnover in some of the organizations' staff. The MS4 must work to create buy-in by new staff members for existing trainings, educational materials, etc. This can be time-consuming; however, sometimes staff turnover promotes the generation of new ideas for educational opportunities, as well.

SECTION 4

PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION-MINIMUM CONTROL MEASURE

19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C.

3.1 IDDE Ordinance-Implement and enforce the IDDE Ordinance.

3.2 Sewer System Mapping-Maintain and update an accurate sewer system map and inventory.

3.3 Storm Water Quality Inspection & Monitoring Program-Maintain, update, and implement an inspection and monitoring program and IDDE Plan.

3.4 Industrial Facility Identification, Monitoring, & Tracking-Identify, monitor, and track industrial facilities within the MS4 Area.

3.5 IDDE Programs-Update and maintain programs to address storm water quality and pollution prevention issues, to include illicit connection and illegal discharges, water quality reporting, and employee training.

3.6 IDEE Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues associated with illicit connections and illegal discharges.

19a. Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.)

3.1 IDDE Ordinance

Measurable Goal: Implement and enforce the IDDE Ordinance.

No updates/revisions to IDDE Ordinance or the Stormwater Management Ordinance.

3.2 Sewer System Mapping

Measurable Goal: Maintain and update an accurate sewer system map and inventory.

Sewer System Mapping is 100% complete. Integration of sewer system with new GIS mapping software was completed in 2015. New future infrastructure continues to be mapped at time of construction and included in the existing mapping software.

Video inspection of sanitary and storm sewer lines and structures are required of all new infrastructure. In addition, efforts to video inspect portions of the existing collection system are done each year.

3.3 Storm Water Quality Inspection & Monitoring Program

Measurable Goal: (38 sampling sites Monitored Annually) Maintain, update, and implement an inspection and monitoring program and IDDE plan.

Storm water sampling of all City of Angola storm water monitoring sites have continued. Sampling, inspection, and monitoring was conducted per the SWQMP-Part B as well as the IDDE Plan & Sampling Plan. 31 sites were inspected and monitored by internal MS4 staff for this reporting period. Four sites were funded by the MS4 and inspected by an outside environmental firm three times annually resulting in 12 additional inspections in 2022.

3.4 Industrial Facility Identification, Monitoring, & Tracking

Measurable Goal: Identify, monitor, and track industrial facilities within the MS4 Area.

No new industrial facilities have been identified for this reporting period.

3.5 IDDE Programs

Measurable Goal: Develop, update, and implement a program to address storm water quality and pollution prevention issues, to include illicit connections and illegal discharges, water quality reporting, and employee training.

The IDDE plan consists of dry weather outfall screening. This is conducted annually to determine if any illegal discharge is occurring in the stormwater outfalls or drainage ditches. Through the IDDE program, a storm water quality program was established. This allows public citizens an avenue to make complaints and suggestions to improve the water quality in the area. A recycling program for residents has been in place for the entire permit cycle and will continue in the future. Dye testing, smoke testing, and video inspections are also utilized to identify any potential illicit discharges within the collection system.

During this permit period, the IDDE program allowed for the investigation of a total of twenty (20) illicit discharges reported. In 2022, one industrial illicit discharge was reported. The discharge was investigated and proven to be a valid report. Upon discovery, the operator was ordered to immediately cease the discharge. Appropriate clean-up methods were implemented. Illicit discharges reported in 2022 were as follows: Nine (9) were the direct result of failure to install proper erosion and sediment control measures on construction sites with five (5) of the nine involving tracking; six (6) various petroleum products; two (2) waste; two (2) chemical products; one (1) grass clippings. The IDDE program has been successful for citizens to report illicit discharges.

3.6 IDEE Materials

Measurable Goal: (200 flyers/Brochures Annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues associated with illicit connections and illegal discharges.

Education & Outreach material was distributed throughout the reporting period. The materials distributed include:

IDEM & USEPA Materials

City of Angola Billboard & Ad Campaign

City of Angola Quarterly Newsletter-contributed pieces on stormwater education periodically.

Southern Indiana Stormwater Advisory Committee (SISWAC) educational pamphlets were distributed at the annual contractor's workshop.

The following table illustrates the education and outreach materials that were distributed during the 2022 permitting period that specifically target illicit discharge detection.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	31
<i>Billboards</i>	5
<i>Flyers/Newsletter</i>	9600 (3 sets of 3200 were mailed)

The COA/Trine MS4 has developed and distributed many educational materials during the reporting period including a billboard and ad campaign.

19b. Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.

All mapping of outfalls has been completed prior to this reporting period. The only challenge to screening of outfalls continues to be the difficulty to access some outfalls, particularly in agricultural areas.

19c. Identify changes made to the IDDE Plan during this reporting period if applicable.

No changes to the IDDE Plan were made during this reporting period.

19d. Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.

No updates or revisions to any IDDE-related ordinances were made during this reporting period.

19e. Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a timetable for completion.

All City of Angola mapping and screening of outfalls has been completed.

SECTION 5

PART H: CONSTRUCTION SITE STORM WATER RUN-OFF CONTROL-MINIMUM CONTROL MEASURE

20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C.

4.1 Construction Ordinance-Implement and enforce the Construction Ordinance.

4.2 Construction Plan Review-Review and approve construction plans in accordance with the Construction Ordinance.

4.3 Construction BMPs-Implement and track approved structural and non-structural BMPs for required construction sites.

4.4 Construction Programs-Develop, update, and implement a program to address storm water quality and pollution prevention issues associated with construction activities.

4.5 Construction Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues related to construction activities.

20a. Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

4.1 Construction Ordinance

Measurable Goal: Implement and enforce the Construction Ordinance.

No updates or revisions to the current construction ordinance occurred during the reporting period. Efforts to continue to implement and enforce the ordinance were made during this reporting period.

4.2 Construction Plan Review

Measurable Goal: Review and approve construction plans in accordance with the Construction Ordinance.

Construction plan review and Site Improvement Permits are required for all land disturbing activities (not just Construction Stormwater General Permit sites) by the City of Angola MS4. The following are the totals of Site Improvement Permits issued for the reporting period.

	2022
Class I Permits	14
Class II Permits	4
Class III Permits	25
Class IV Permits	5
Class V Permits	6
Total Permits	54

4.3 Construction BMPs

Measurable Goal: Implement and track approved structural and non-structural BMPs for required construction sites.

These BMPs were divided into structural and non-structural BMPs.

Structural BMPs include silt fence, straw wattles, rip rap, construction drives, etc.

Non-structural BMPs include concrete washout signage, street sweeping, etc.

The following table illustrated the types and numbers of structural and non-structural BMPs that were implemented on construction sites during the reporting period.

	2022
Silt Fence/Filter Sock	53
Construction Drive	51
Inlet/Curb Protection	23
Concrete Washout Container	23
Erosion Control Signage	6
Rock Check Dam	0
Sediment Trap/Basin	0
Street Sweeping	6

4.4 Construction Programs

Measurable Goal: (1 Training Event Annually) Develop, update, and implement a program to address storm water quality and pollution prevention issues associated with construction activities, to include erosion and sediment control BMPs, inspections and maintenance, and training.

A construction site BMP Inspection and Maintenance program is in place. This consists of an inspection every 14 days and after any storm event greater than 0.50 inches for any project requiring a Construction Stormwater General Permit. The Construction Site Inspection Report is used for inspection.

An annual contractor workshop seminar was planned and organized in partnership with the Steuben County Soil & Water Conservation District. The workshop was held in December 2022 with 32 participants.

4.5 Construction Materials

Measurable Goal: (200 Flyers/Brochures Annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues related to construction activities.

The COA/Trine MS4 has developed and distributed many educational materials during the reporting period including a billboard and ad campaign. These advertisements for this BMP were construction oriented dealing with run-off associated with a construction site or proper erosion control practices.

The following table illustrates the education and outreach materials that were distributed during the 2022 permitting period that specifically target construction activities.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	3
<i>Billboards</i>	3
<i>Flyers/Newsletter</i>	6400 (2 sets of 3200 were mailed)

20b. Describe program implementation partnerships and explain successes and barriers during this reporting period.

The MS4 department continues to partner with the Steuben County Soil and Water Conservation District to plan and host an annual contractor workshop. This has been a successful partnership as it allowed for more individuals to be involved in the planning stages of the workshop. The main barrier continues to be finding a solution to create buy-in for small contracting companies. To date,

we have had limited success in attendance from our smaller contractors in the area. As we continue our partnership, we will continue to use feedback from participants to try to attract smaller contracting company personnel.

20c. Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.

	2022
Class I Permits	14
Class II Permits	4
Class III Permits	25
Class IV Permits	5
Class V Permits	6
Total Permits	54

A total of ten (10) enforcement actions occurred in 2022. Enforcement begins with a verbal warning unless the conditions require immediate attention. Four (4) of the ten enforcement actions required progressive enforcement with a 1st written notice of violation issued by the MS4, and two (2) of the ten enforcement actions required progressive enforcement with a 1st written notice of violation issued by the city’s attorney. In three (3) of the enforcement actions, enforcement was referred to the City Engineer, Mayor, and City Attorney for enforcement follow-up. No stop work orders were issued during this reporting period.

20d. Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.

The MS4 department continues to partner with the Steuben County Soil and Water Conservation District to plan and organize an annual contractors’ workshop. This workshop was held in 2022. Education is also conducted on site during construction inspections with owners of the projects requested to meet onsite to discuss erosion/sediment control measure failures.

20e. MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.

2022

Date	Event	Sponsor	Location
20-Jan	How's My Waterway	EPA	Webinar
5-Feb	Steuben County Lakes Council Meeting	SCLC	First Congregational Church, Angola
10-Feb	Stormwater Drainage Conference	Purdue LTAP	Purdue University, West Lafayette
15-Feb	NFIP Flood Insurance Basics for FEMA Region 5	FEMA	Webinar
24-Feb	New IDEM Construction Stormwater General Permit	CBBEL	Webinar
3-Mar	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
5-Mar	Steuben County Lakes Council Meeting	SCLC	First Congregational Church, Angola
9-Mar	Steuben County SWCD Annual Meeting	SWCD	Presbyterian Church, Angola
10-Mar	Floodplain Committee Meeting	INAFSM	Virtual
15-Mar	Lessons Learned Construction Monitoring & Green Infrastructure	Davey Resource Group	Webinar

16-Mar	Operation Stay Afloat	DNR	S Government Center, Indianapolis
25-Mar	Steuben County Lakes Council Water Quality Meeting	SCLC	Steuben County Community Center
22-Mar	The ABCs of BMP Installation	Stormwater University	On-line Class
2-Apr	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
14-Apr	Stormwater Landscape Maintenance Training Program	White River Alliance	On-line Class
20-Apr	True Source Control for MS4 Programs	National Stormwater Alliance	Webinar
28-Apr	Understanding IDEM's New Construction Stormwater General Permit	IRMCA	Webinar
6-May	St Joseph River Basin Commission Annual Symposium	SJRBC	Virtual
7-May	Steuben County Lakes Council	SCLC	Steuben County Community Foundation
9-May	New MS4 Coordinators and Permittees Workshop - Annual Indiana MS4 Conference	Indiana MS4 Partnership	Indianapolis
10-May	Annual Indiana MS4 Conference	Indiana MS4 Partnership	Indianapolis
19-May - 20-May	WTH GIS Conference	WHT	Indianapolis
25-May	Development Permitting	FEMA	Webinar
2-Jun	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
21-Jun	Floodplain Variances	DNR	Webinar
2-Jul	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
27-Jul	Erosion & Sediment Control Inspection Basics - INAFSM Educational Resources Help Sheet	OH DNR	YouTube Video
27-Jul	NPDES Refresher Training: Erosion & Sedimentation Control - INAFSM Educational Resources Help Sheet	Orange County FL	YouTube Video
28-Jul	FEMA SI/SD Workshop	DNR	S Government Center, Indianapolis
2-Aug	MS4s and You - Old & New	APA	Virtual
17-Aug	Strategic Partnerships: Working with The Nature Conservancy toward Disaster Resilience	FEMA	Webinar
1-Sep	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
3-Sep	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
6-Sep	Turning Water Data into Public Information	EPA	Webinar
14-Sep - 16-Sep	INAFSM Annual Conference	INAFSM	Century Center, South Bend
5-Oct	2022 Northern Indiana Stormwater Conference	Fort Wayne City Utilities	Parkview Field, Fort Wayne
19-Oct	Harmful Algal Blooms in Ohio - Recent Trends in the Field and Advancements	Water Mgmt Assn of Ohio	Webinar
5-Nov	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
29-Nov	Winter Maintenance & Liquids	LTAP	Webinar
1-Dec	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
3-Dec	Steuben County Lakes Council	SCLC	Steuben County Community Foundation

20f. Identify updates or revision to the storm water construction ordinance.

No updates or revisions to the stormwater construction ordinance were made during this reporting period.

SECTION 6

PART I: POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL-MINIMUM CONTROL MEASURE

21. List the best management practices for post-construction site storm water run-off control identified in your SWQMP Part C.

5.1 Post-Construction Ordinance-Implement and enforce the Post-Construction Ordinance

5.2 Post-Construction Plan Review-Review and approve construction plans in accordance with the Post-Construction Ordinance.

5.3 Post-Construction BMPs-Implement and track approved structural and non-structural BMPs for required construction sites.

5.4 Post-Construction Programs-Develop, update, and implement a program to address storm water quality and pollution prevention issues associated with post-construction activities, to include BMPs, inspection and maintenance, and training.

5.5 Post-Construction Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues related to post-construction activities.

21a. Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

5.1 Post-Construction Ordinance

Measurable Goal: Implement and enforce the Post-Construction Ordinance

There were no updates/revisions to the Post-Construction Ordinance or the Stormwater Management Ordinance. Efforts to continue to implement and enforce these ordinances were made during this reporting period.

5.2 Post-Construction Plan Review

Measurable Goal: Review and approve construction plans in accordance with the Post-Construction Ordinance

In conjunction with construction plan reviews, due diligence was completed to ensure that post construction results in minimal erosion control issues. Plan review and Site Improvement Permits are required for all land disturbing activities (not just CSGP sites) by the City of Angola MS4. The following are the totals of Site Improvement Permits issued for the reporting period.

	2022
Class I Permits	14
Class II Permits	4
Class III Permits	25
Class IV Permits	5
Class V Permits	6
Total Permits	54

5.3 Post-Construction BMPs

Measurable Goal: Implement and track approved structural and non-structural BMPs for required construction sites.

Post construction BMPs implemented include the use of detention basins, filter trenches, etc. These are considered structural BMPs. Visual inspection is needed for these types of BMPs. Non-structural BMPs consist of agreements, O&M manuals, etc. The MS4 Coordinator would be

responsible for reviewing these agreements and associated manuals to ensure that stormwater management is maintained during post-construction.

The following table illustrated the types and numbers of structural BMPs that were implemented on construction sites during the reporting period.

	2022
Detention/Retention Basin	7
Storm Structures w/ Sump	0
Filter Strip	2
Level Spreader	0
Wetlands	0
Infiltration System	3
Vegetated Swale	5
Energy Dissipater/Rip-Rap Protection	4
Rain Garden/Bioretenion System	1
Pervious Pavement	0

5.4 Post-Construction Programs

Measurable Goal: (1 Training Event Annually) Develop, update, and implement a program to address storm water quality and pollution prevention issues associated with post-construction activities, to include erosion and sediment control BMPs, inspections and maintenance, and training.

A Post-Construction Site BMP Inspection & Maintenance program was followed during the reporting cycle. All Class III, IV, and V sites receive inspections once every 14 days and after any storm greater than 0.5 inches. The Construction Site Inspection Report form is used for these inspections.

The annual contractors’ workshop seminar was held in 2022. The in-person workshop provides stormwater regulatory update information and erosion and sediment control education to engineers, architects, contractors, and concrete professionals.

5.5 Post-Construction Materials

Measurable Goal: (200 Flyers/Brochures Annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues related to post-construction activities.

The COA/Trine MS4 has developed and distributed many educational materials during the reporting period including a billboard and ad campaign. These advertisements for this BMP were construction oriented dealing with run-off associated with a construction site or proper erosion control practices.

The following table illustrates the education and outreach materials that were distributed during the 2022 permitting period that specifically target construction activities.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	3
<i>Billboards</i>	3
<i>Flyers/Newsletter</i>	6400 (2 sets of 3200 were mailed)

21b. Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.

The MS4 department continues to partner with the Steuben County Soil and Water Conservation District to plan and host an annual contractor workshop. This has been a successful partnership as it allowed for more individuals to be involved in the planning stages of the workshop. The main barrier continues to be finding a solution to create buy-in for small contracting companies. To date, we have had limited success in attendance from our smaller contractors in the area. As we continue our partnership, we will continue to use feedback from participants to try to attract smaller contracting company personnel.

21c. Describe program implementation partnerships and explain successes and barriers.

The City of Angola/Trine MS4 has a close working relationship with many local contractors that complete substantial work in the MS4 boundary region. A positive working relationship with these contractors leads to minimal barriers when working with stormwater and erosion control matters.

The MS4 department partnered with the Steuben County Soil and Water Conservation District to plan and put on a contractor workshop. This was a successful partnership as it allowed for more individuals to be involved in the planning stages of the workshop. No barriers were identified during this permit reporting period.

21d. MS4 area personnel responsible for implementation of the post-construction minimum control measure shall receive, at a minimum, annual training. Identify training provided for this minimum control measure during this reporting period.

2022

Date	Event	Sponsor	Location
20-Jan	How's My Waterway	EPA	Webinar
5-Feb	Steuben County Lakes Council Meeting	SCLC	First Congregational Church, Angola
10-Feb	Stormwater Drainage Conference	Purdue LTAP	Purdue University, West Lafayette
15-Feb	NFIP Flood Insurance Basics for FEMA Region 5	FEMA	Webinar
24-Feb	New IDEM Construction Stormwater General Permit	CBBEL	Webinar
3-Mar	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
5-Mar	Steuben County Lakes Council Meeting	SCLC	First Congregational Church, Angola
9-Mar	Steuben County SWCD Annual Meeting	SWCD	Presbyterian Church, Angola
10-Mar	Floodplain Committee Meeting	INAFSM	Virtual
15-Mar	Lessons Learned Construction Monitoring & Green Infrastructure	Davey Resource Group	Webinar

16-Mar	Operation Stay Afloat	DNR	S Government Center, Indianapolis
25-Mar	Steuben County Lakes Council Water Quality Meeting	SCLC	Steuben County Community Center
22-Mar	The ABCs of BMP Installation	Stormwater University	On-line Class
2-Apr	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
14-Apr	Stormwater Landscape Maintenance Training Program	White River Alliance	On-line Class
20-Apr	True Source Control for MS4 Programs	National Stormwater Alliance	Webinar
28-Apr	Understanding IDEM's New Construction Stormwater General Permit	IRMCA	Webinar
6-May	St Joseph River Basin Commission Annual Symposium	SJRBC	Virtual
7-May	Steuben County Lakes Council	SCLC	Steuben County Community Foundation
9-May	New MS4 Coordinators and Permittees Workshop - Annual Indiana MS4 Conference	Indiana MS4 Partnership	Indianapolis
10-May	Annual Indiana MS4 Conference	Indiana MS4 Partnership	Indianapolis
19-May - 20-May	WTH GIS Conference	WHT	Indianapolis
25-May	Development Permitting	FEMA	Webinar
2-Jun	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
21-Jun	Floodplain Variances	DNR	Webinar
2-Jul	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
27-Jul	Erosion & Sediment Control Inspection Basics - INAFSM Educational Resources Help Sheet	OH DNR	YouTube Video
27-Jul	NPDES Refresher Training: Erosion & Sedimentation Control - INAFSM Educational Resources Help Sheet	Orange County FL	YouTube Video
28-Jul	FEMA SI/SD Workshop	DNR	S Government Center, Indianapolis
2-Aug	MS4s and You - Old & New	APA	Virtual
17-Aug	Strategic Partnerships: Working with The Nature Conservancy toward Disaster Resilience	FEMA	Webinar
1-Sep	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
3-Sep	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
6-Sep	Turning Water Data into Public Information	EPA	Webinar
14-Sep - 16-Sep	INAFSM Annual Conference	INAFSM	Century Center, South Bend
5-Oct	2022 Northern Indiana Stormwater Conference	Fort Wayne City Utilities	Parkview Field, Fort Wayne
19-Oct	Harmful Algal Blooms in Ohio - Recent Trends in the Field and Advancements	Water Mgmt Assn of Ohio	Webinar
5-Nov	Steuben County Lakes Council Meeting	SCLC	Steuben County Community Foundation
29-Nov	Winter Maintenance & Liquids	LTAP	Webinar
1-Dec	St Joseph River Basin Commission Quarterly Meeting	SJRBC	Schrock Pavilion Goshen
3-Dec	Steuben County Lakes Council	SCLC	Steuben County Community Foundation

21e. Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.

No updates/revisions to Post-Construction Ordinance or Stormwater Management Ordinance.

SECTION 7

PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING-MINIMUM CONTROL MEASURE

22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C.

6.1 Municipal SWPPP-Trine will complete SWPPPs for the Trine maintenance garage, the campus golf course maintenance garage, and all dormitories that include cafeterias with designated delivery and/or maintenance areas where stormwater pollution sources are present.

6.2 Pollution Prevention/Good Housekeeping BMPs-Implement and track approved structural and non-structural BMPs for ALL municipal facilities and operational areas.

6.3 Pollution Prevention/Good Housekeeping Programs-Continue to develop, update, and implement a program to address storm water quality and pollution prevention issues associated with municipal operations.

6.4 Pollution Prevention/Good Housekeeping Materials-Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues to help promote public involvement and participation.

22a. Identify progress made towards development and implementation of each BMP in the SWPPP including timetables and measurable goals during this reporting period.

6.1 Municipal SWPPP

Measurable Goal: Trine will complete SWPPs for the Trine maintenance garage, the campus golf course maintenance garage, and all dormitories that include cafeterias with designated delivery and/or maintenance areas where stormwater pollution sources are present.

The Municipal SWPPP is the framework for the Updated Program and shall be retained and used in conjunction with other Pollution Prevention and Good Housekeeping BMPs during each reporting period and throughout the 4th Permit Term.

In August of 2021, Trine University completed SWPPPs for the Trine maintenance garage, the campus golf course maintenance garage, and all dormitories that include cafeterias with designated delivery and/or maintenance areas where stormwater pollution sources are present. Trine University is responsible for updating SWPPPs for applicable facilities on campus. These documents are under the control of Trine University and are kept on file at the appropriate campus location.

The City of Angola Municipal SWPPP was last updated by the MS4 in January 2022; however, with the new MS4GP, the COA SWPPP is in the process of being updated again by its contracted consultant, Wessler Engineering, to incorporate the requirements of the new MS4 General Permit. Also, representatives of Wessler Engineering conducted audits of each municipal facility operating under the SWPPP to understand each facility's operation in order to update the COA SWPPP.

During the reporting period, meetings were held with each department to go over the plan, as well as to provide training for employees on good housekeeping measures. Each department has access to an electronic copy of the SWPPP, as well as spill kits to aid in adhering to the BMPs outlined in the SWPPP.

6.2 Pollution Prevention/Good Housekeeping BMPs

Measurable Goal: Implement and track approved structural and non-structural BMPs for all municipal facilities and operational areas.

A vegetated filter strip and a constructed wetland are structural BMPs that have been designed and developed. Catch basin cleaning, street sweeping, storm sewer cleaning, leaf pickup, and yard waste and debris pickup have been identified as BMPs utilized by the City of Angola and Trine University. The following table shows the total waste picked up as part of the BMP initiative.

	2022
Street Sweeper Debris (CYS)	1644
Street Sweeper Debris-Trine (CYS)	12
Leaf Pickup (tons)	593
Yard Waste (CYS)	4180
Catch Basin Cleaning (No. cleaned)	287
Collection System cleaning (lbs.)	41360

6.3 Pollution Prevention/Good Housekeeping Programs

Measurable Goal: (1 Training Event Annually) Develop, update, and implement a program to address storm water quality and pollution prevention issues associated with municipal operations, to include training.

Employees have continued to be trained in proper BMPs that relate to storm water pollution prevention. Storm water pollution prevention educational materials for municipal employees were created in 2018. In 2019, municipal employees received these materials as part of their training. In 2020, a Spill Response Plan that incorporated storm water pollution concerns was finalized and training on the plan was implemented by SES, the environmental safety company the City of Angola works with to implement Health & Safety plans for municipal facilities. The Spill Response Plan was incorporated into each department’s Emergency Action Plan. Training is held annually for this plan during the SES Health & Safety Training Day. In 2021, the Human Resources Department implemented a Training Acknowledgment form for full-time, part-time, and seasonal employees to acknowledge receiving pollution prevention training. In addition, every year during each department’s municipal SWPPP annual inspection, the opportunity is taken to answer any questions employees may have on stormwater pollution prevention issues.

6.4 Pollution Prevention/Good Housekeeping Materials

Measurable Goal: (200 Flyers/Brochures Annually, 6 billboards/Ads Annually) Develop, update, and distribute educational materials that address storm water quality and pollution prevention issues to help promote public involvement and participation.

IDEM and USEPA materials have continued to be utilized for the distribution of material. Multiple advertisements and a billboard campaign have been conducted to educate all sectors on the importance of stormwater pollution prevention. The following table illustrates the education and outreach materials that were distributed during the 2022 reporting period.

Material Type	2022 Totals
<i>Newspaper Advertisements</i>	31
<i>Billboards</i>	5
<i>Flyers/Newsletter</i>	9600 (3 sets of 3200 were mailed)
<i>Stormwater Activity Booklets</i>	243

22b. Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4-owned and operated facilities during this reporting period.

No implementation problems were encountered at either City or Trine-owned and operated facilities during this reporting period.

22c. Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.

Trine University reported:

- 157 drains have been labeled with “Do Not Dump, Drains to Lake” designation.
- Zollner Golf Course – Use of Organic fertilizers for entire golf course
- Zollner Golf Course – Delivery of irrigation water with more accuracy and precise timing applications.
- Zollner Golf Course – Implement leak detection and repair program
- Zollner Golf Course – Developed better soil management practices
- Zollner Golf Course – Irrigate according to plants needs
- Zollner Golf Course – Use of Wetting agents on greens/spots on fairways for use of less water
- Trine University main campus-use of irrigation computer to more accurately deliver water to main campus lawns.
- Use of sediment bag around drain at Jannen Field
- Use of stone around Ford Building and Villas to conserve water usage
- Use of stone around Fawick building to conserve water usage
- Use of wattles around MTI driving range

22d. Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.

Employees are trained through department meetings and during the annual inspection of each department to ensure adherence to the municipal SWPPP.

Employees have continued to be trained in proper BMPs that relate to storm water pollution prevention. Storm water pollution prevention educational materials for municipal employees were created in 2018. In 2019, municipal employees received these materials as part of their training. In 2020, a Spill Response Plan that incorporated storm water pollution concerns was finalized and training on the plan was implemented by SES, the environmental safety company the City of Angola works with to implement Health & Safety plans for municipal facilities. The Spill Response Plan was incorporated into each department’s Emergency Action Plan. Training is held annually for this plan during the SES Health & Safety Training Day. In 2021, the Human Resources Department implemented a Training Acknowledgment form for full-time, part-time, and seasonal employees to acknowledge receiving pollution prevention training.